

SET 1919 FOLDER 2

PHOTOFACT® Folder

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For Supplier Address See PHOTOFACT Index

SONY MODEL KV-5200
(Ch. SCC-239A-A)

COLOR TV



Model KV-5200

SONY MODEL KV-5200
(Ch. SCC-239A-A)

SAFETY PRECAUTIONS

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SERVICE INFORMATION

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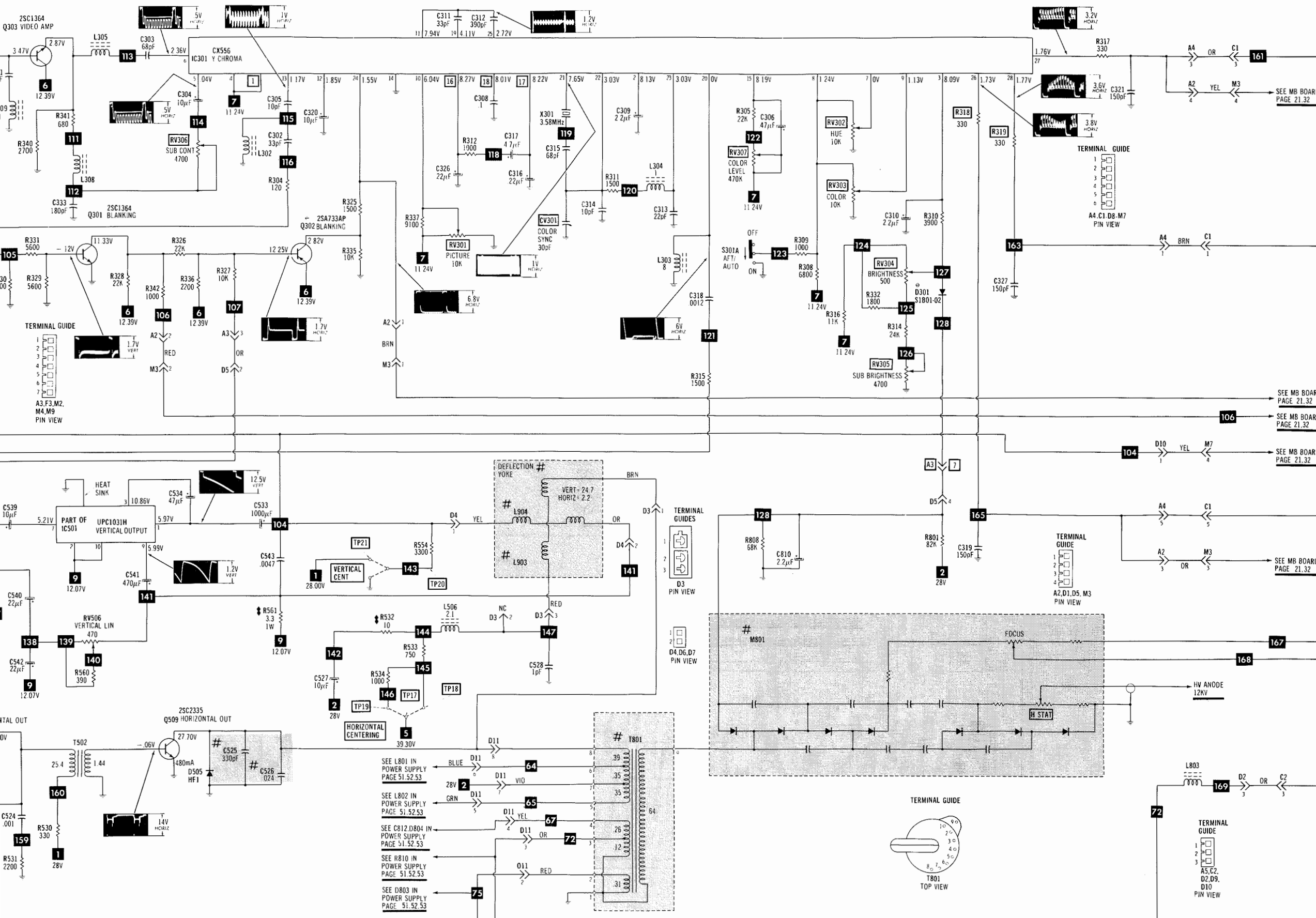
HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

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DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

Remove four screws (in battery compartment) holding cabinet bottom and remove bottom. Remove four screws holding cabinet top and remove top. Remove four screws holding front mask assembly to chassis front. Remove mask assembly, disconnect front panel connectors. Remove two screws holding power switch to mask assembly. Slide earphone jacks out of retaining slot and remove front mask assembly from chassis front. Access may be gained to service lamps at this time.

Remove two screws holding "D" Board to chassis frame top and hinge outward. Disconnect HV anode, CRT socket, deflection yoke connectors, degaussing coil connectors and ground leads.

CRT may be removed at this point of disassembly. Release latch holding "A" Board to chassis frame bottom and hinge "A" Board outward. Remove two screws holding "MB" Board

to chassis frame bottom and hinge "MB Board outward. Relieve power switch wire restraints.

Remove five screws holding rear chassis assembly to chassis frame and remove from chassis frame.

For channel indicator accessibility follow chassis removal procedure and remove four screws holding front control panel to front mask assembly. Remove twelve screws holding control circuit board to control panel. Lift circuit board off control panel and carefully lift cover off selector buttons and indicators. Caution: When cover is removed all buttons are loose.

CRT REMOVAL

Follow "Chassis Removal" procedure. Loosen and remove deflection yoke. Remove four nuts holding CRT to chassis front. Remove CRT from chassis. Do not lift CRT by the neck.

SERVICING IN THE FIELD

CRT IMPLSION PROTECTION AND CLEANING

Implosion protection is an integral part of the picture tube, cleaning accomplished without CRT removal.

FUSE DEVICES

A 2.5-amp fuse is used for low-voltage power-supply protection. (See Placement Chart.)

A 1-amp fuse is used for AC line protection.

CHANNEL INDICATOR ACCESSIBILITY

Front mask assembly must be removed. See Disassembly Instructions.

CHANNEL SELECTION

Fourteen buttons are provided for channel selection. A Channel Set Switch, a Clear button and Tuning Up and Down Buttons are provided for channel pre-tuning.

CHANNEL PRE-TUNING

Momentarily depress Channel Selector Button for channel to be pre-tuned. Move Channel Set Switch to On, momentarily depress Tuning Up or Down Button to tune proper channel. After proper channel is received return Channel Set Switch to Off. Repeat procedure for each

channel to be pre-tuned.

To remove a channel from tuner memory, momentarily depress Selector Button for channel to be removed. Move Channel Set Switch to On, momentarily depress Clear Button, return Channel Set Switch to Off.

HORIZONTAL OSCILLATOR

Adjustment of the horizontal hold is accomplished by the proper setting of the horiz oscillator coil. (See Placement Chart.)

FOCUS

The focus may be varied by a focus control. (See Placement Chart.)

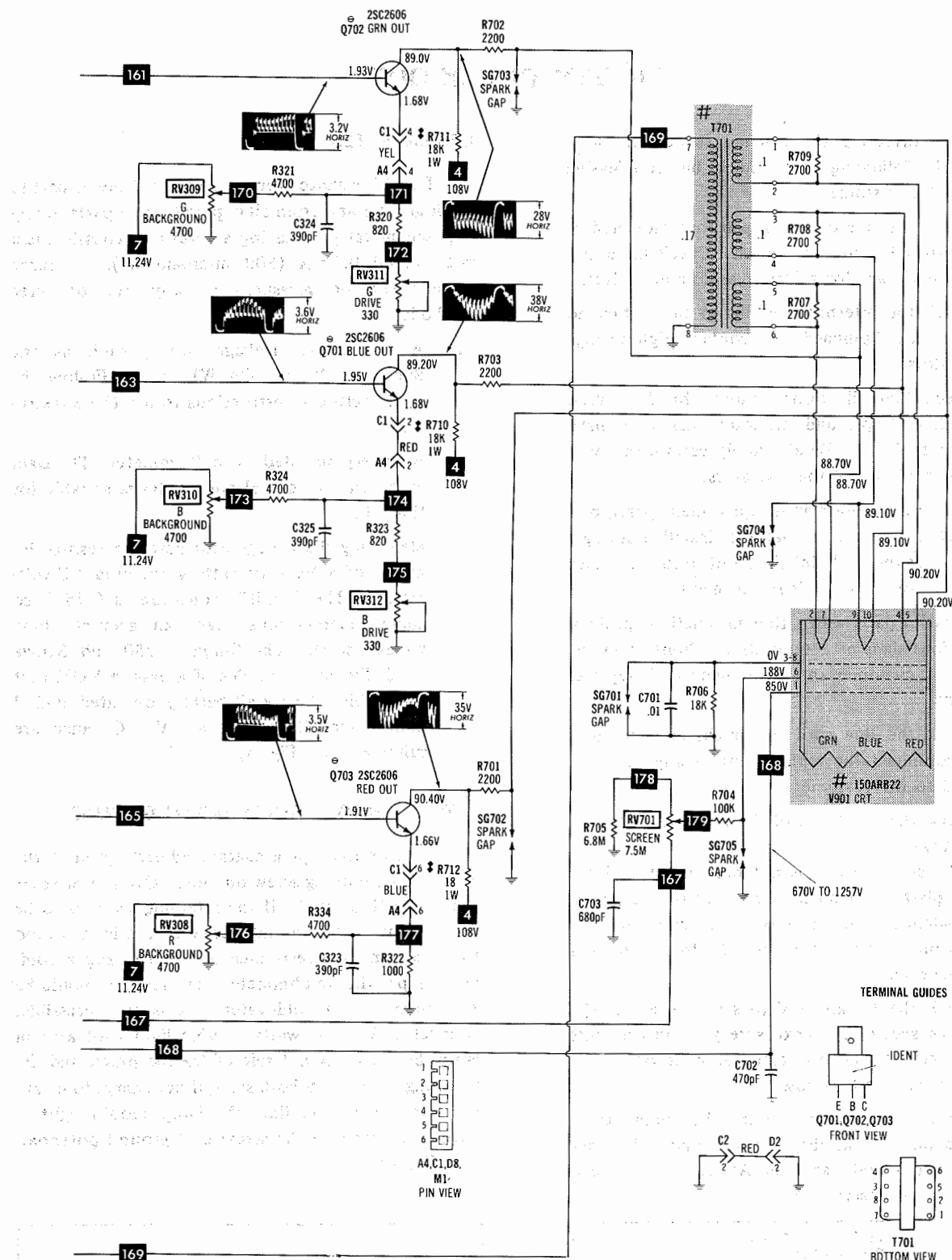
AGC

The AGC may be varied by an RF AGC Control. (See Placement Chart.)

CENTERING

Horizontal centering is accomplished by proper placement of the horizontal centering jumper. (See Placement Chart.)

Vertical centering is accomplished by proper placement of the vertical centering jumper. (See Placement Chart.)



For SAFETY use only equivalent replacement part

— Circuitry not used in some versions

--- Circuitry used in some versions

⊕ See parts list

⊗ Nominal value

⊥ Ground

Waveforms: triggered scope, keyed rainbow generator

Item numbers in rectangles appear in the alignment/adjustment instructions.

Supply voltage maintained as shown at input. Voltages measured with digital meter, no signal. Controls adjusted for normal operation.

Terminal identification may not be found on unit. Resistors are 1/2W or less, 5% unless noted. Value in () used in some versions.

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

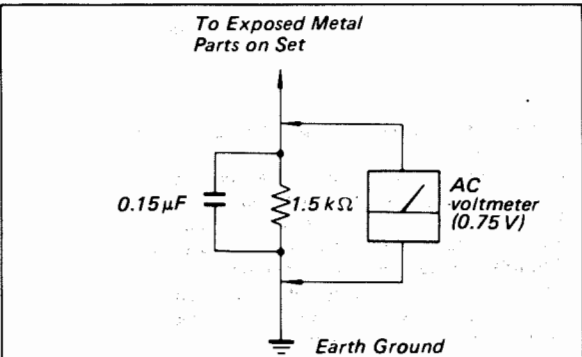


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

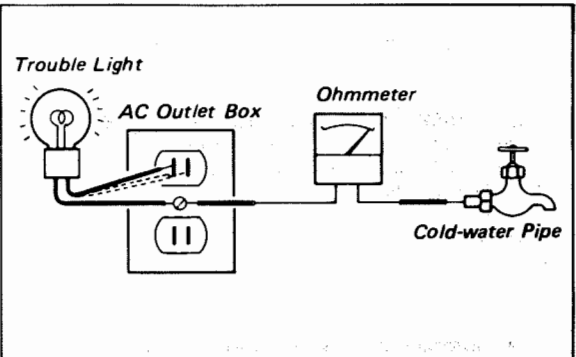
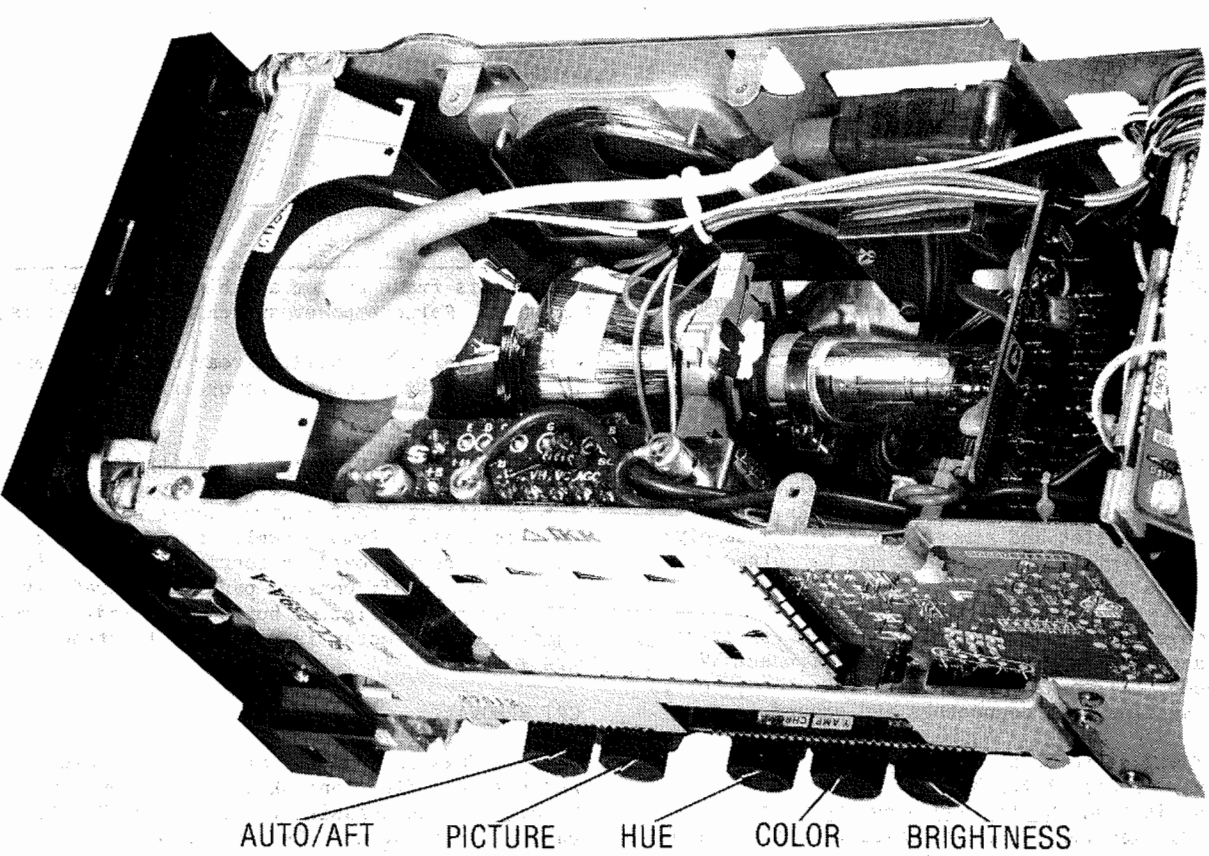


Fig. B. Checking for earth ground.



CABINET-REAR VIEW TROUBLESHOOTING CHECK CHART

The following chart lists component failures most likely to produce the indicated symptoms.

PICTURE or SOUND

NO PIC, NO SOUND, NO RASTER: Fuses,D601.
NO PIC, NO SOUND, HAS RASTER: Tuner,VIF Amp, VIF (IC201).

NO PIC, NO SOUND, HAS SNOW: Tuner,AGC (IC201).
NO PIC, HAS SOUND, NO RASTER: Video Amp,CRT.
NO PIC, HAS SOUND, HAS RASTER: Video Amp.
HAS PIC, NO SOUND: SIF (IC102),AF Amp (IC203).
OVERLOADED PICTURE: AGC (IC201).
LOW OR EXCESSIVE BRIGHTNESS: Video Amp,D301, Blanking.

SYNC

NO VERT SYNC: V Osc/Out (IC501).
NO HORIZ SYNC: D503,D504,H Osc.
NO VERT/HORIZ SYNC: Sync Sep.

RASTER

YELLOW (NO BLUE): Y Chroma (IC301),Blue Out,CRT.
CYAN (NO RED): Y Chroma (IC301),Red Out,CRT.
MAGENTA (NO GREEN): Y Chroma (IC301),Green Out, CRT.

SWEEP

NO RASTER, HAS SOUND: DC Block,CRT.
NO RASTER, NO SOUND: H Osc/Drive/Output,D505.
NO VERT DEFLECTION: V Osc/Out (IC501).
POOR VERT LIN OR FOLDOVER: V Osc/Out (IC501).
POOR HORIZ LIN OR FOLDOVER: H Drive/Out,D505.
NARROW PICTURE: H Drive/Out,D505.
VERT OFF FREQUENCY: V Osc/Out (IC501).
HORIZ OFF FREQUENCY: D503,D504,H Osc.

COLOR (B/W operating normally)

NO COLOR: Y Chroma (IC301).
WEAK COLOR: Y Chroma (IC301).
NO COLOR SYNC: Y Chroma (IC301).
NO GREEN: Y Chroma (IC301),Green Out.
NO BLUE: Y Chroma (IC301),Blue Out.
NO RED: Y Chroma (IC301),Red Out.
INCORRECT HUE (TINT): Y Chroma (IC301).

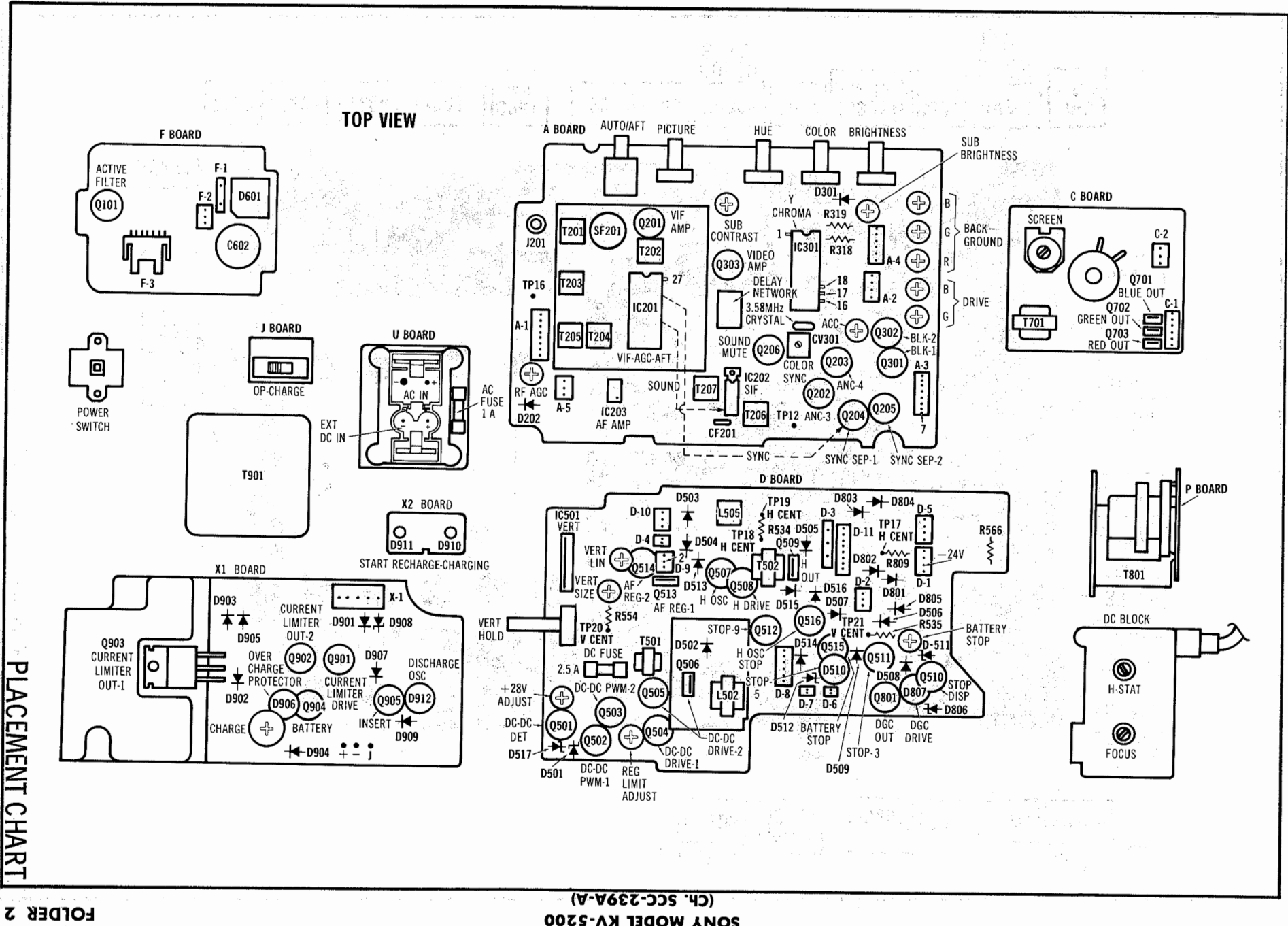
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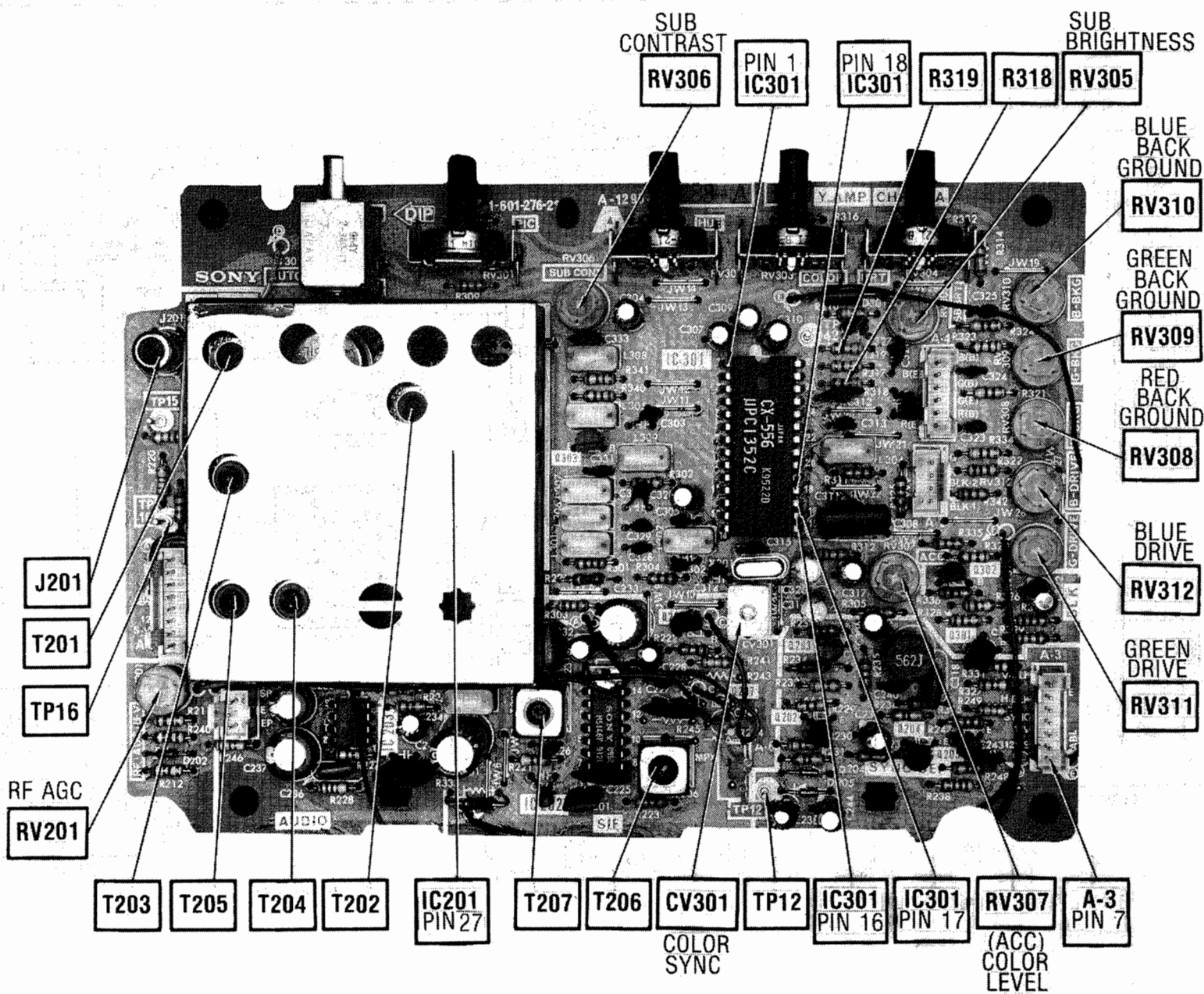
RESISTANCE MEASUREMENTS

MEASUREMENTS BELOW TAKEN WITH METER HAVING .08V MAX BETWEEN PROBE TIPS														
ITEM	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9	PIN 10	PIN 11	PIN 12	PIN 13	PIN 14
V901	INF	INF	18K	INF	INF	INF	INF	18K	INF	INF				
IC201	INF	0	INF	5640	6930	5270	1525	0	5670	37K	10K	INF	INF	10K
	PIN 15 10K	PIN 16 0	PIN 17 3110	PIN 18 3110	PIN 19 1580	PIN 20 547	PIN 21 9290	PIN 22 0	PIN 23 9370	PIN 24 8900	PIN 25 11K	PIN 26 INF	PIN 27 5260	PIN 28 INF
IC202	5900	4620	4620	INF	4870	4980	77K	INF	INF	0	8560	587	2910	5870
IC203	INF	0	7800	0	INF	INF	INF	INF						
IC301	540	INF	12K	540	12K	INF	1523	743	2040	2090	5380	INF	4730	0
	PIN 15 227K	PIN 16 INF	PIN 17 INF	PIN 18 INF	PIN 19 INF	PIN 20 8	PIN 21 INF	PIN 22 INF	PIN 23 INF	PIN 24 11K	PIN 25 INF	PIN 26 2180	PIN 27 2160	PIN 28 2140
IC501	INF	10K(1)	10K(1)	13K	2700	65K	INF	0	10K(1)	10K(1)				
ITEM	E	B	C		ITEM	E	B	C		ITEM	E	B	C	
Q201	1000	3320	1472		Q504	6000(1)	11K(1)	14K		Q515	7400	30K	35K	
Q202	547	22K	27K		Q505	0	6800	7800(1)		Q516	0	6800	INF(2)	
Q203	1200	22K	667		Q506	.1	1.9	13K		Q701	937	2480	INF	
Q204	0	43K	2950		Q507	47K	30K	1760		Q702	848	2490	INF	
Q205	547	767	2200		Q508	0	1200	6000(1)		Q703	850	2500	INF	
Q206	0	INF(2)	1920		Q509	0	1.44	6000(1)		Q801	0	1000	INF(2)	
Q301	0	3150	7550		Q510	23K	INF(2)	20K		Q901(3)	2120	2870	22K	
Q302	547	2430	10K		Q511	0	10K	28K		Q902(3)	2070	22K	INF(2)	
Q303	2700	1284	547		Q512	13K	23K	27K		Q903(3)	INF(2)	INF(2)	1857	
Q501	31K	5570	6970		Q513	INF(2)	INF(2)	13K		Q904(3)	0	20K	4100	
Q502	15K	6970	6000(1)		Q514	INF(2)	65K	13K		Q905(3)	0	22K	INF(2)	
Q503	15K	5270	11K(1)											

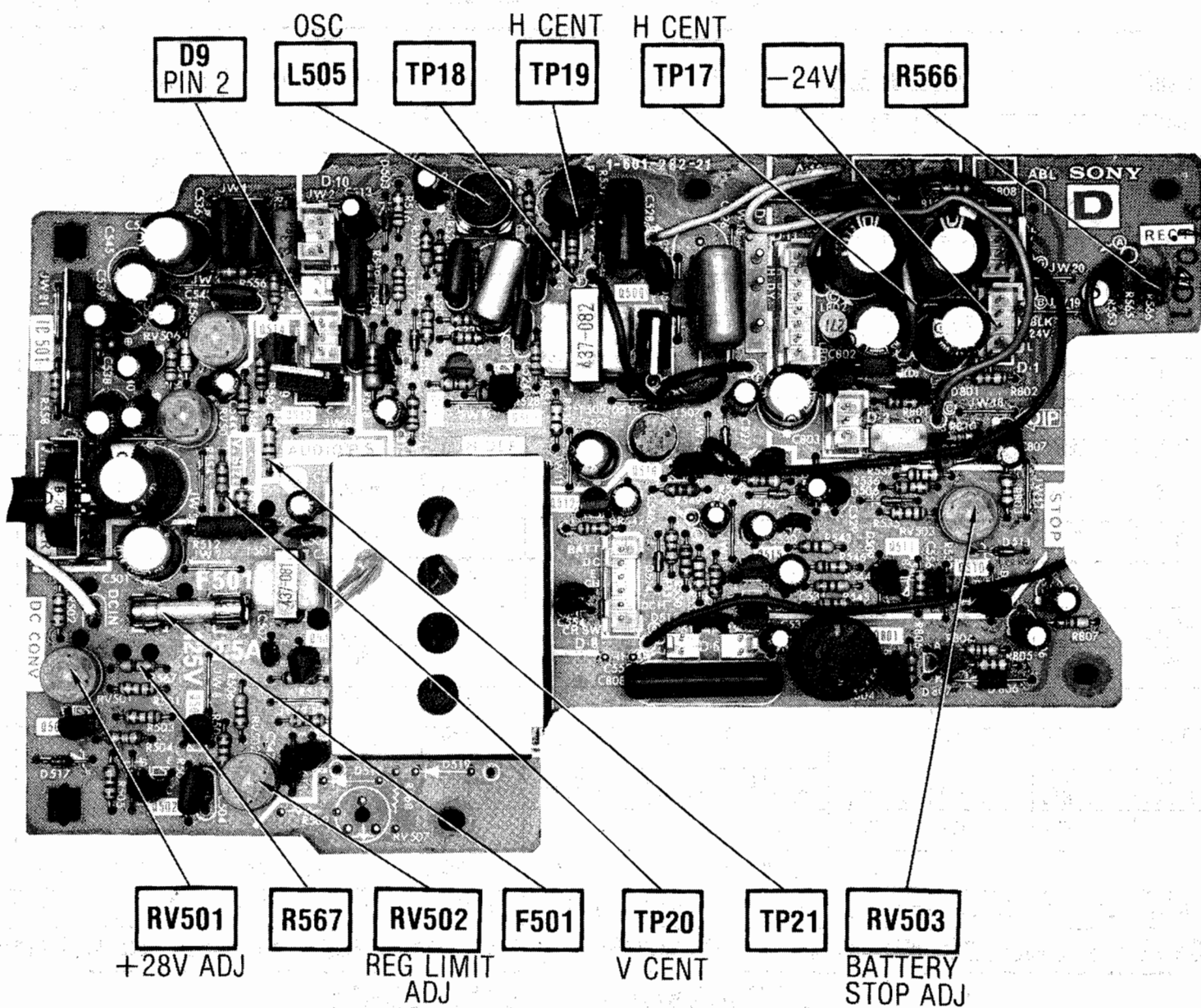
- (1) This reading will vary depending upon the condition of the electrolytic in the circuit.
- (2) Reading depends upon polarity of meter connections.
- (3) Measured with S904 in CH. position.



(A) VIF-SIF-AFT-CHROMA - SYNC SEP BOARD



(D) POWER SUPPLY-AUDIO - SWEEP-DC CONV BOARD

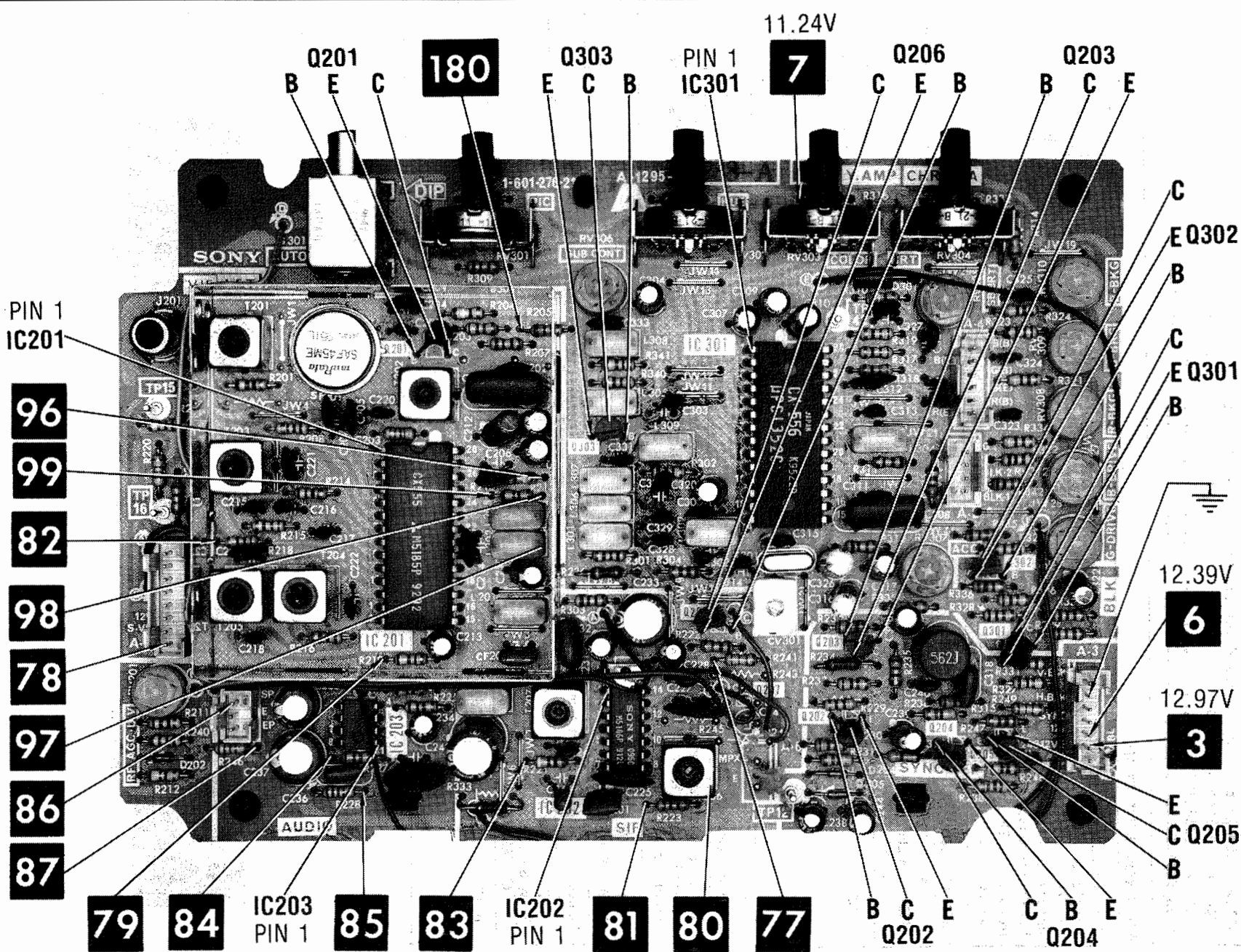




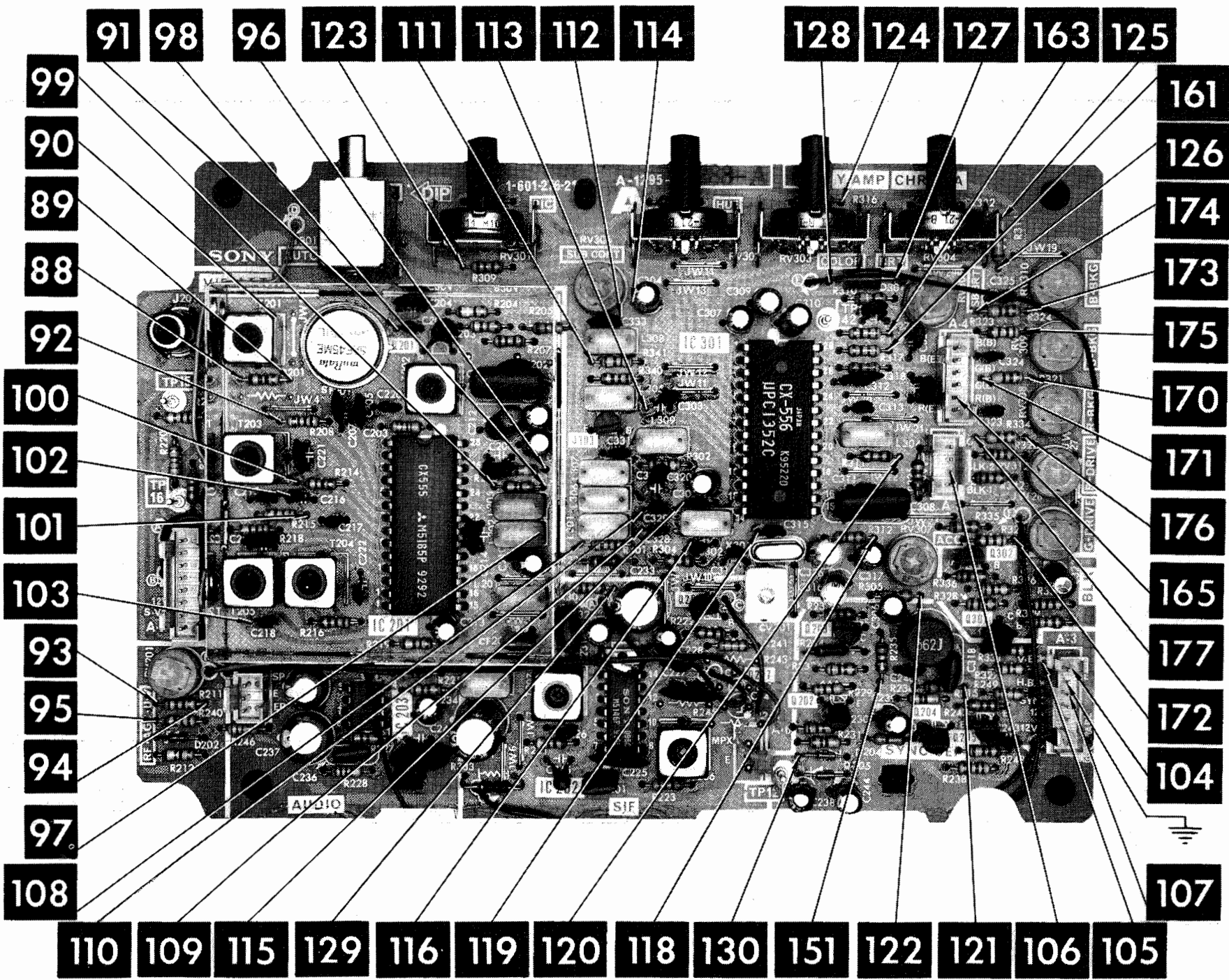
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(A) VIF-SIF-AFT-CHROMA - SYNC SEP BOARD

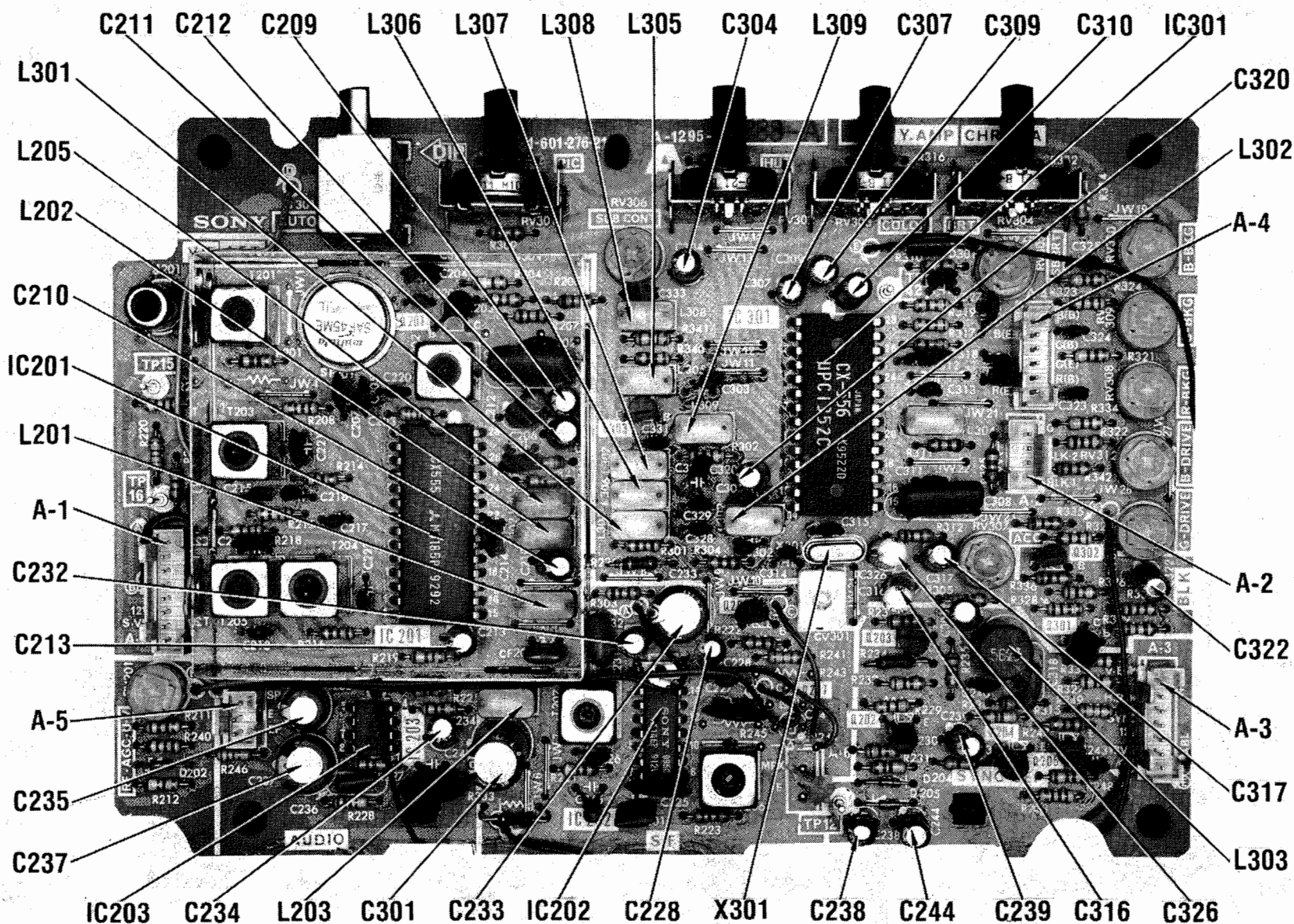
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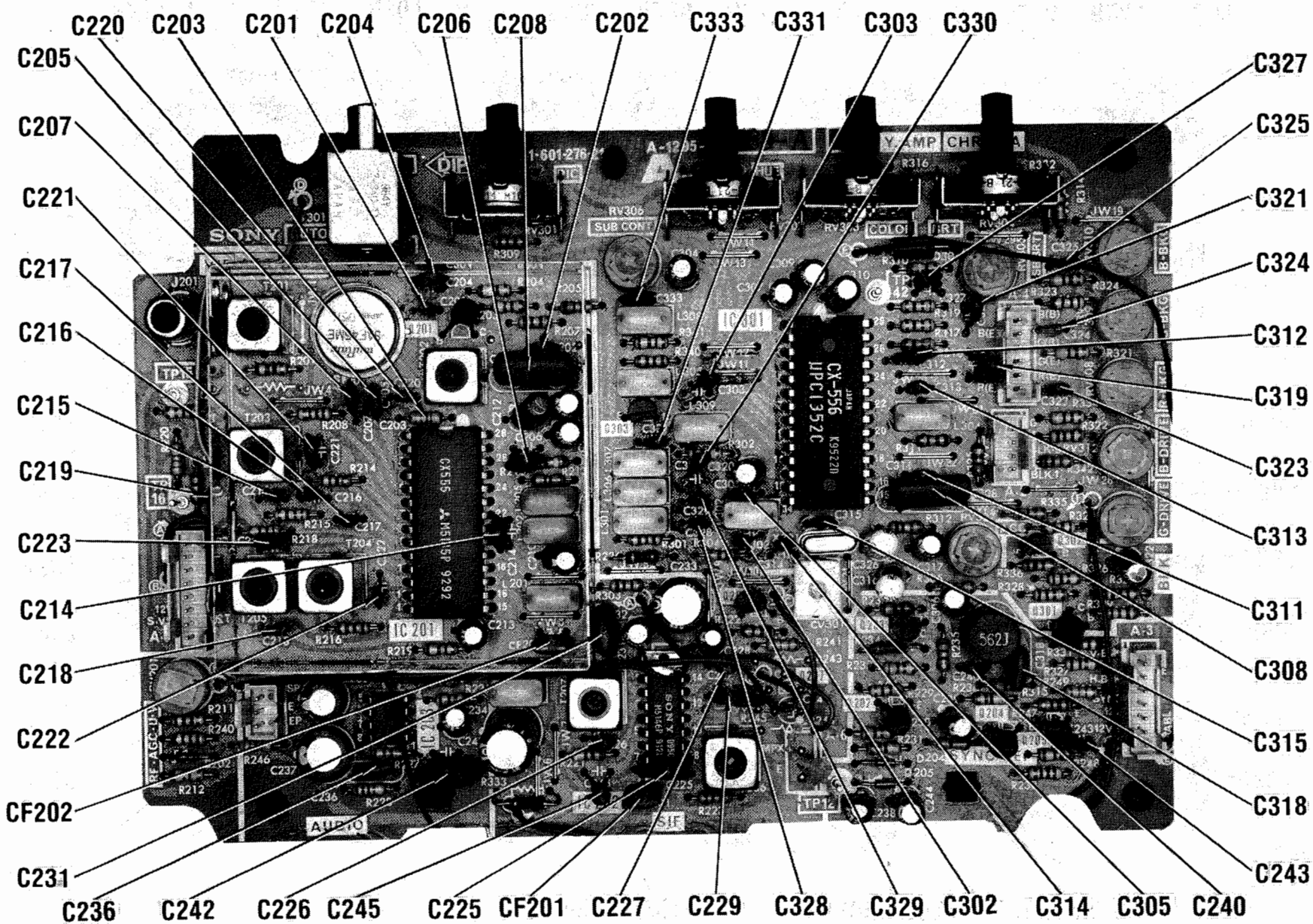
(A) VIF-SIF-AFT-CHROMA - SYNC SEP BOARD



(A) VIF-SIF-AFT-CHROMA - SYNC SEP BOARD

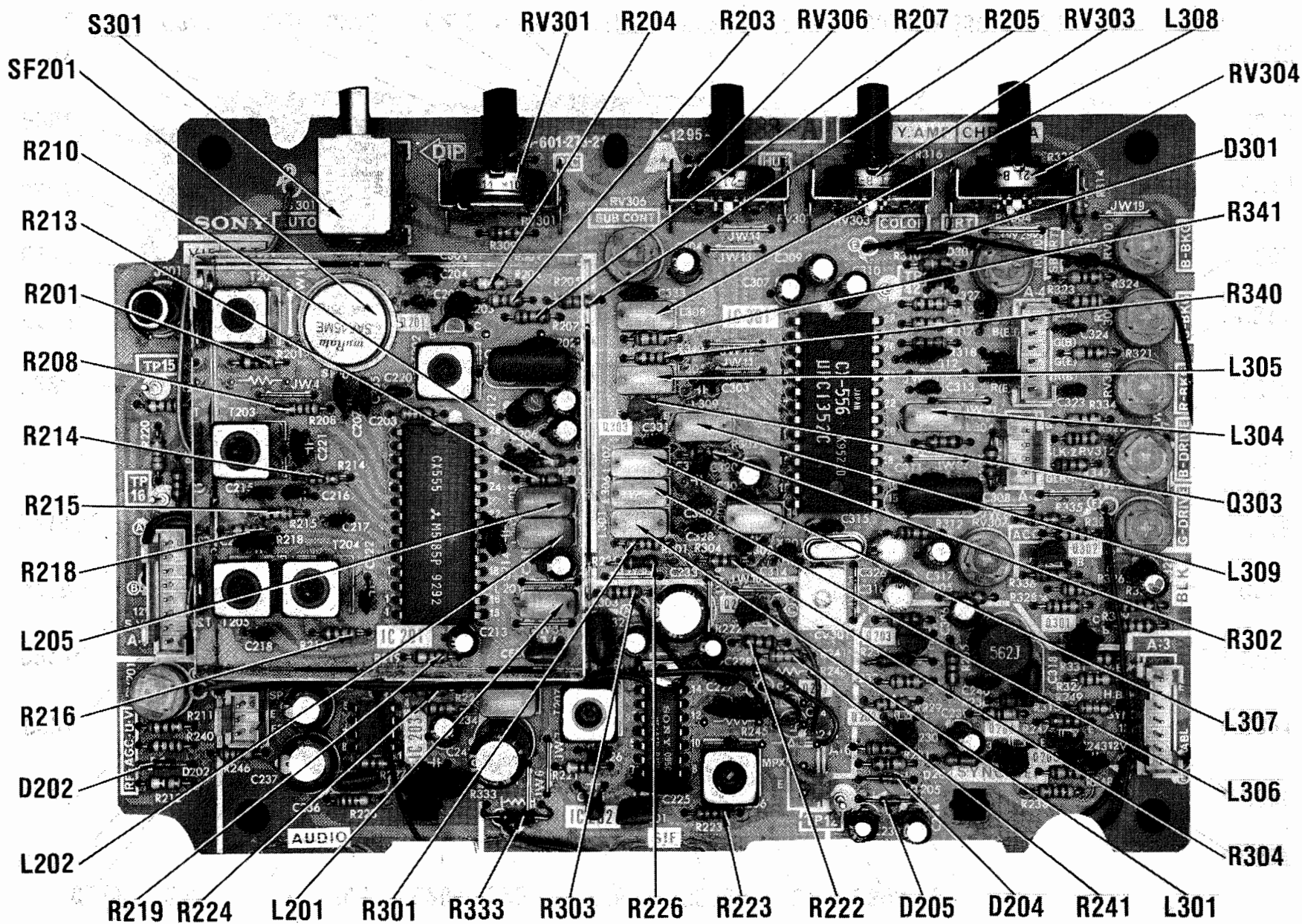


(A) VIF-SIF-AFT-CHROMA - SYNC SEP BOARD

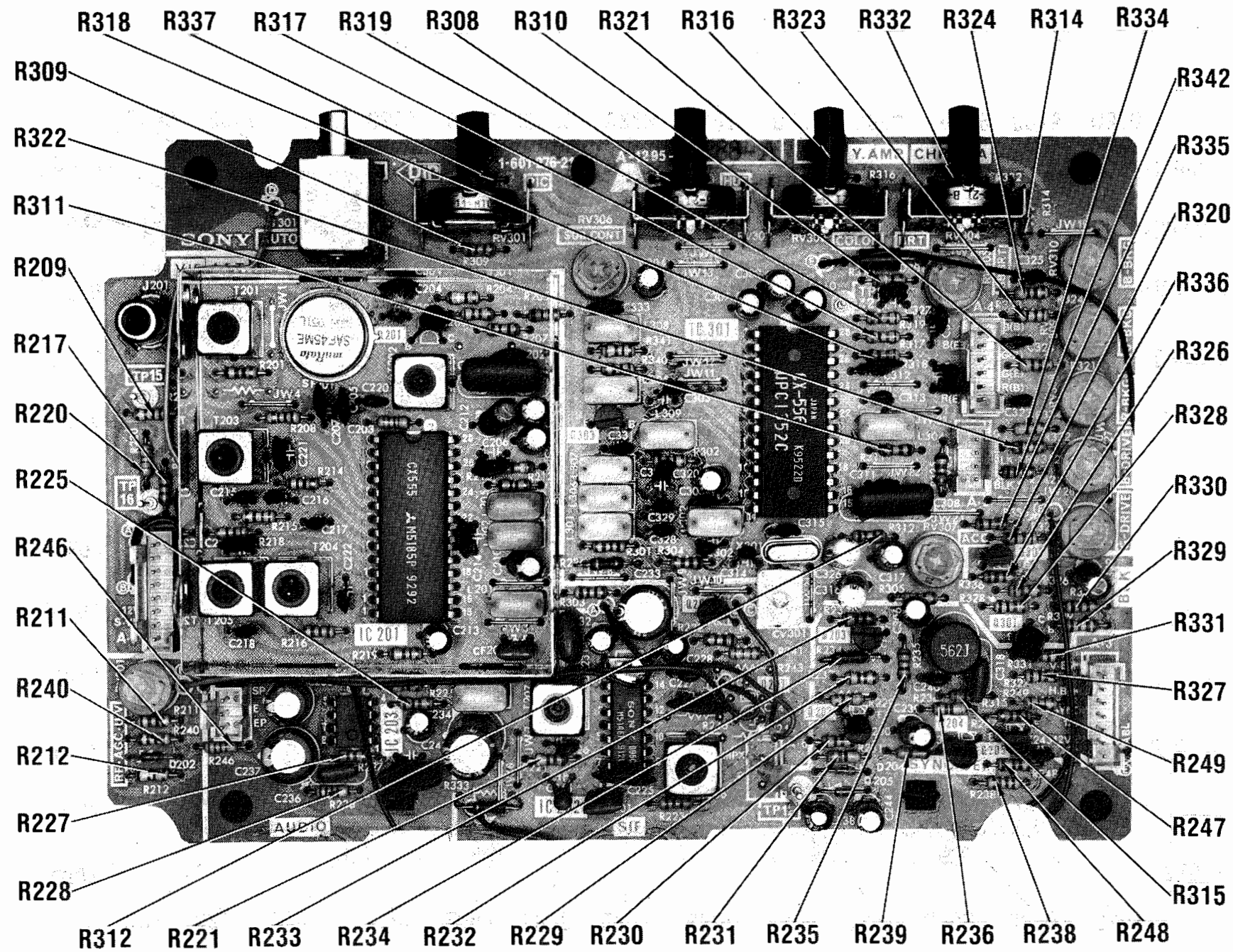


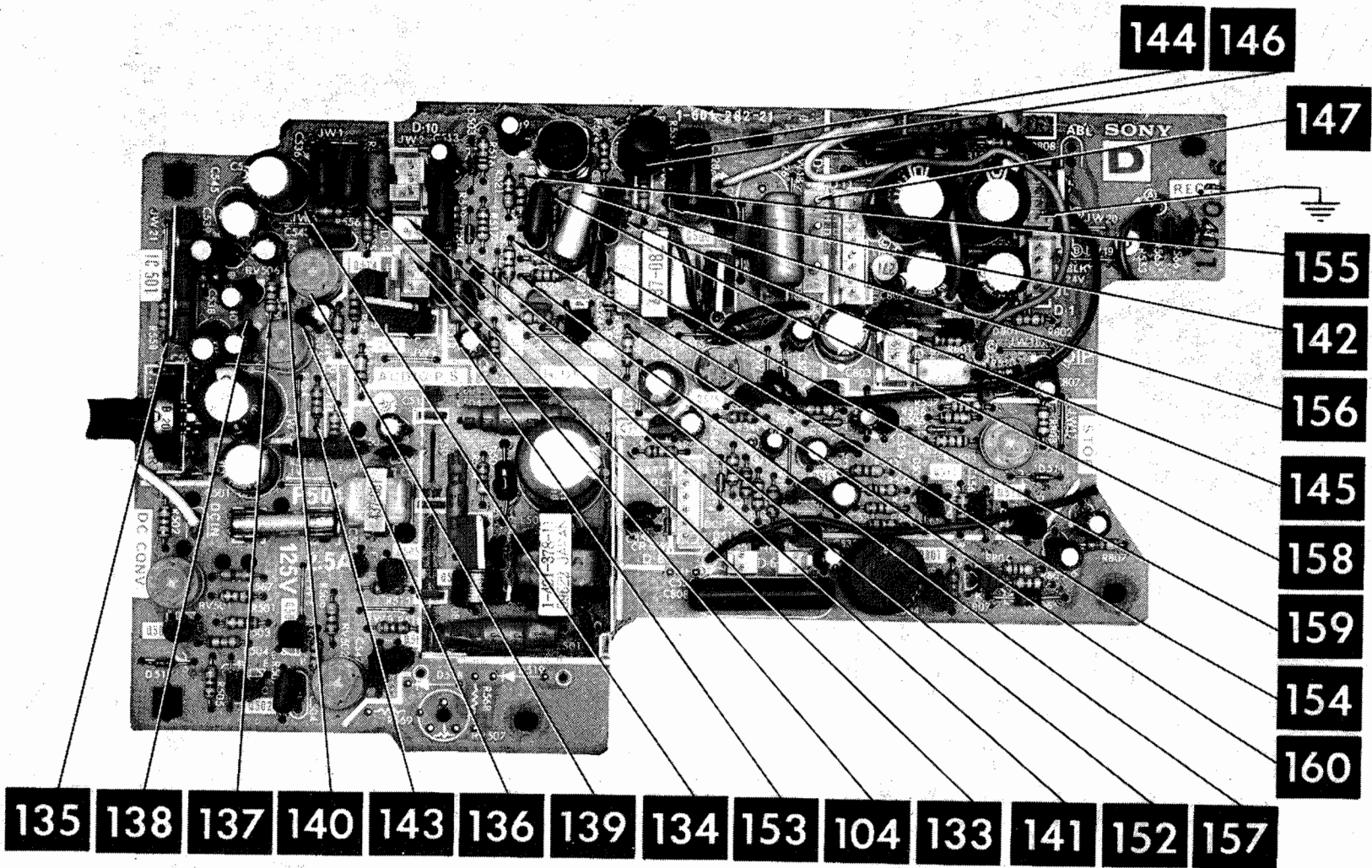
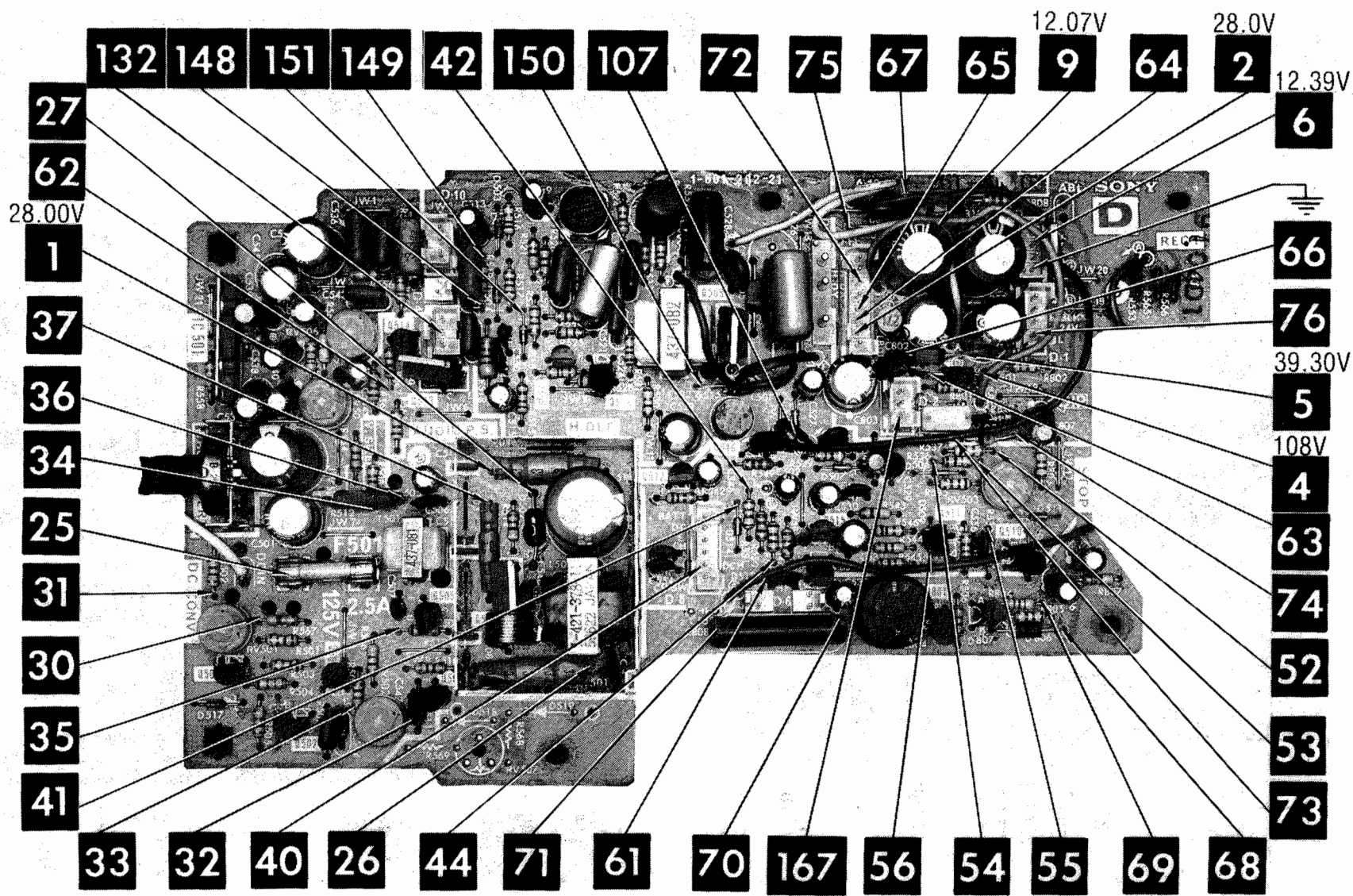
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(A) VIF-SIF-AFT-CHROMA - SYNC SEP BOARD

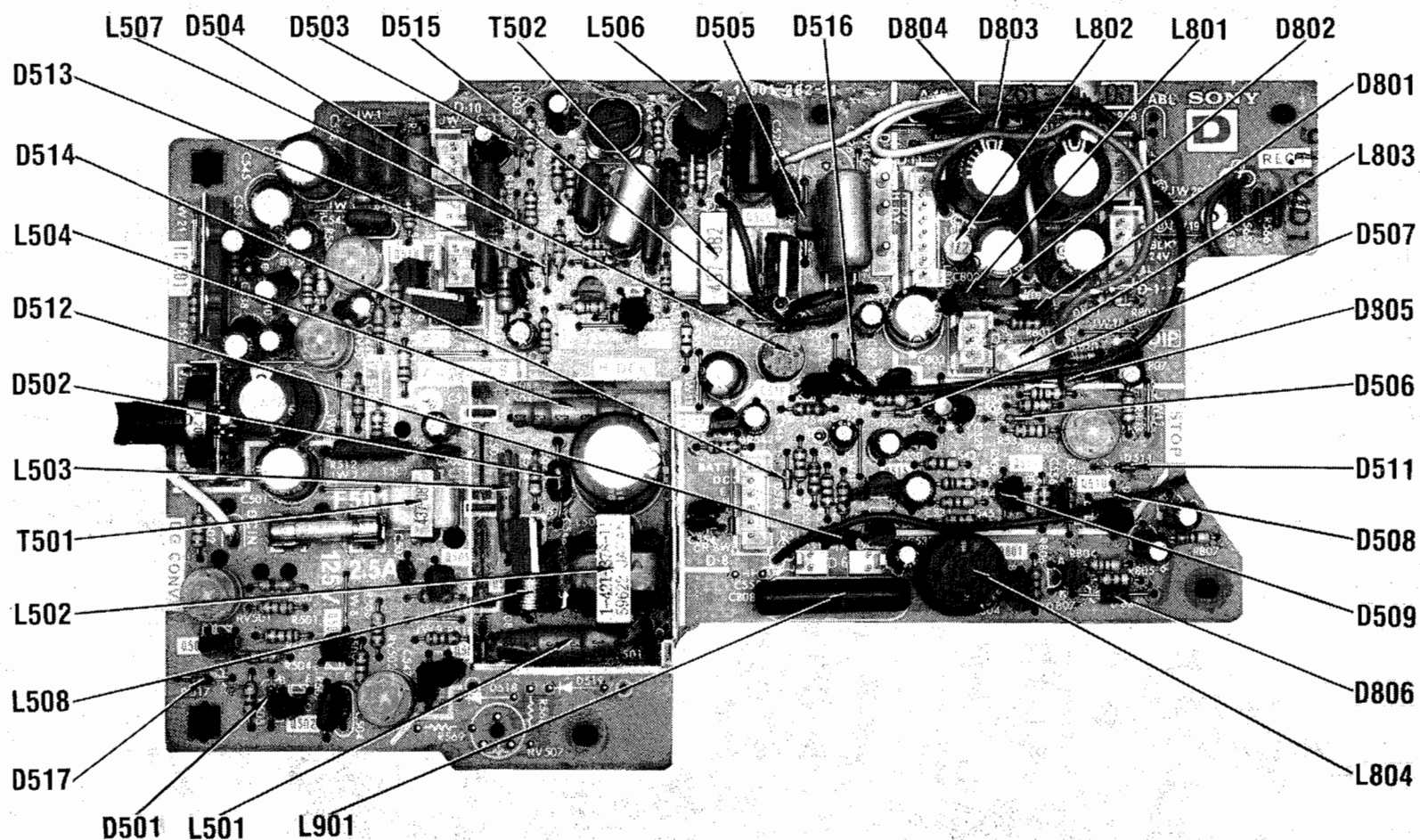


(A) VIF-SIF-AFT-CHROMA - SYNC SEP BOARD

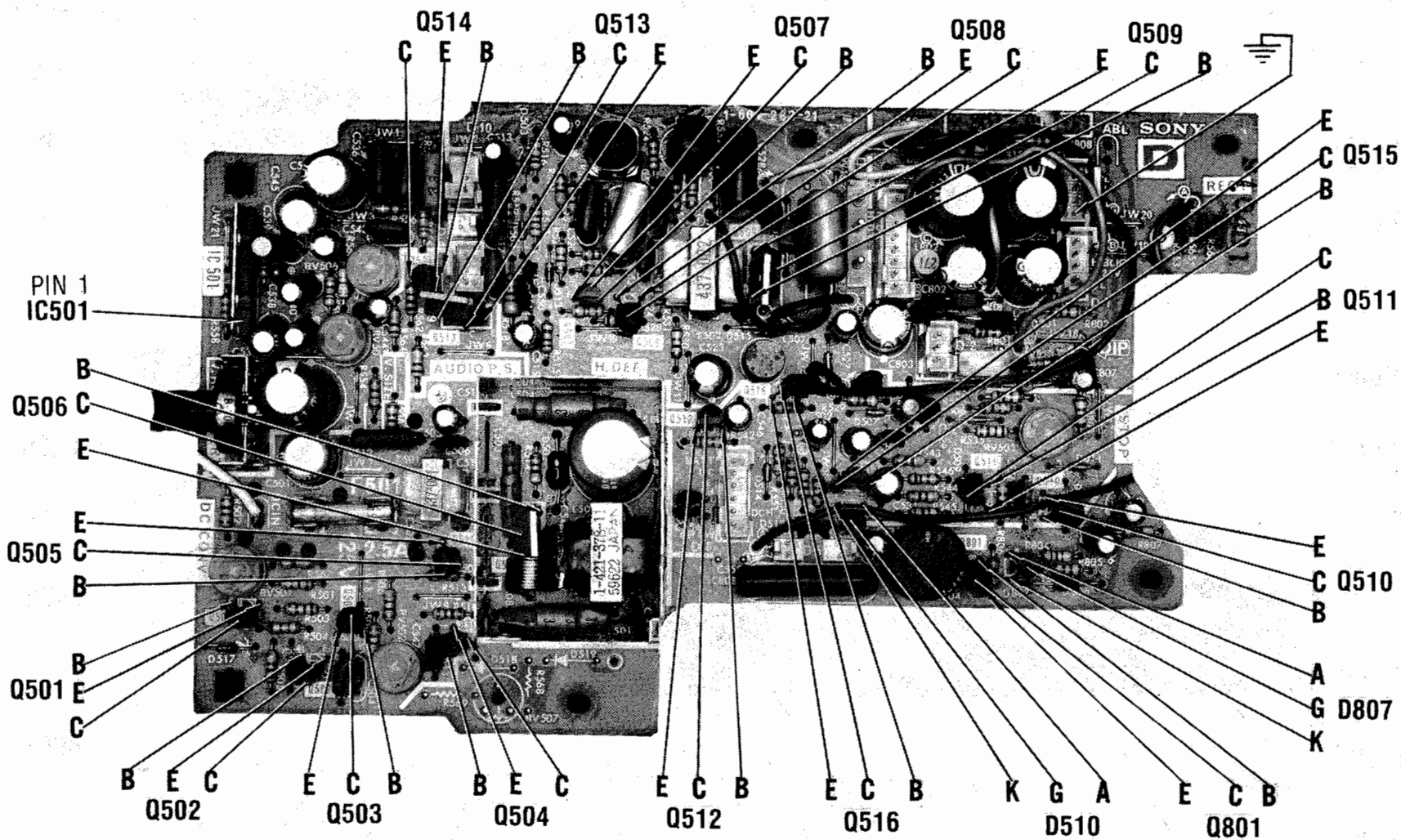




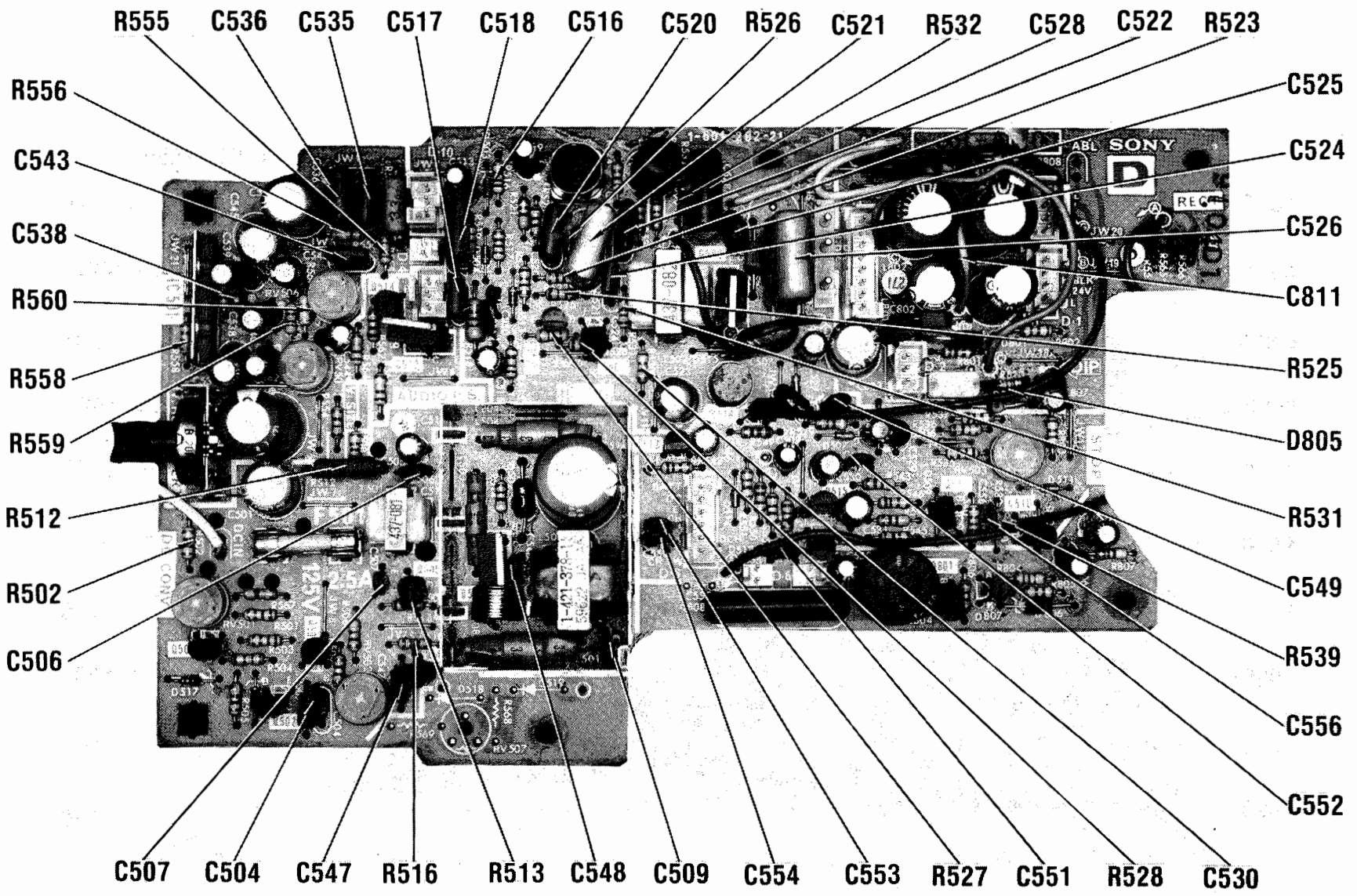
(D) POWER SUPPLY-AUDIO-SWEEP-DC CONV BOARD



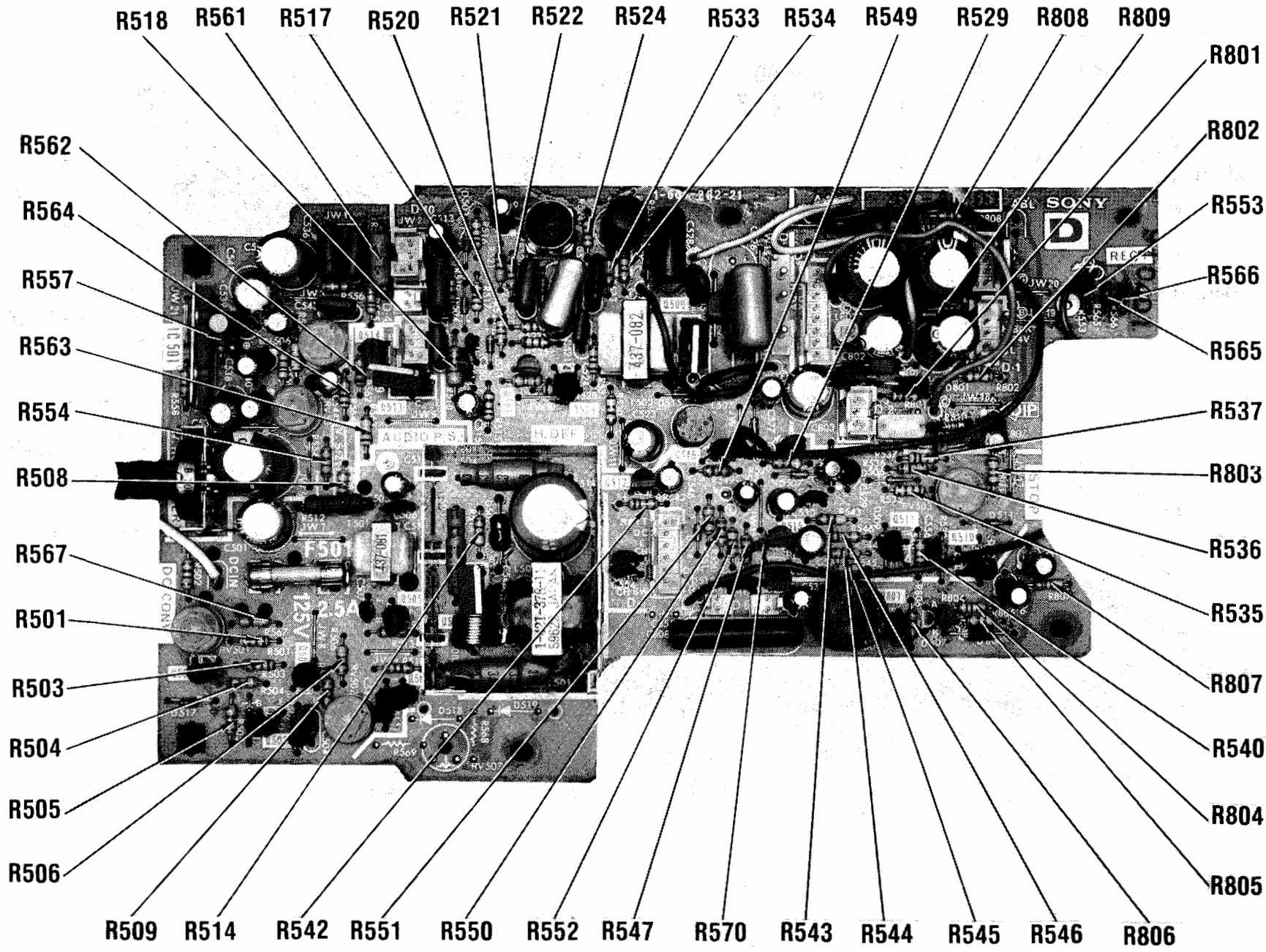
(D) POWER SUPPLY-AUDIO-SWEEP-DC CONV BOARD



(D) POWER SUPPLY-AUDIO-SWEEP-DC CONV BOARD



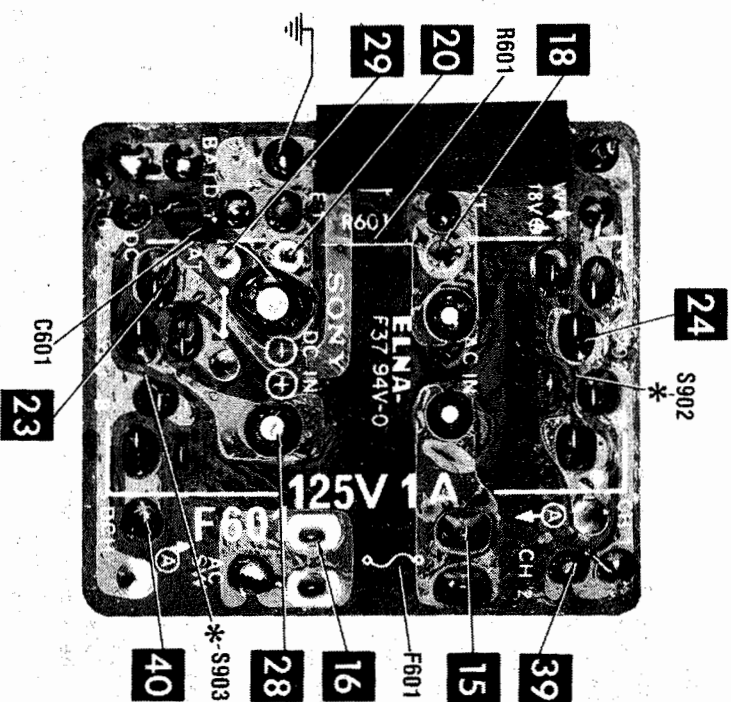
(D) POWER SUPPLY-AUDIO -SWEEP-DC CONV BOARD



(U) AC IN-DC IN BOARD

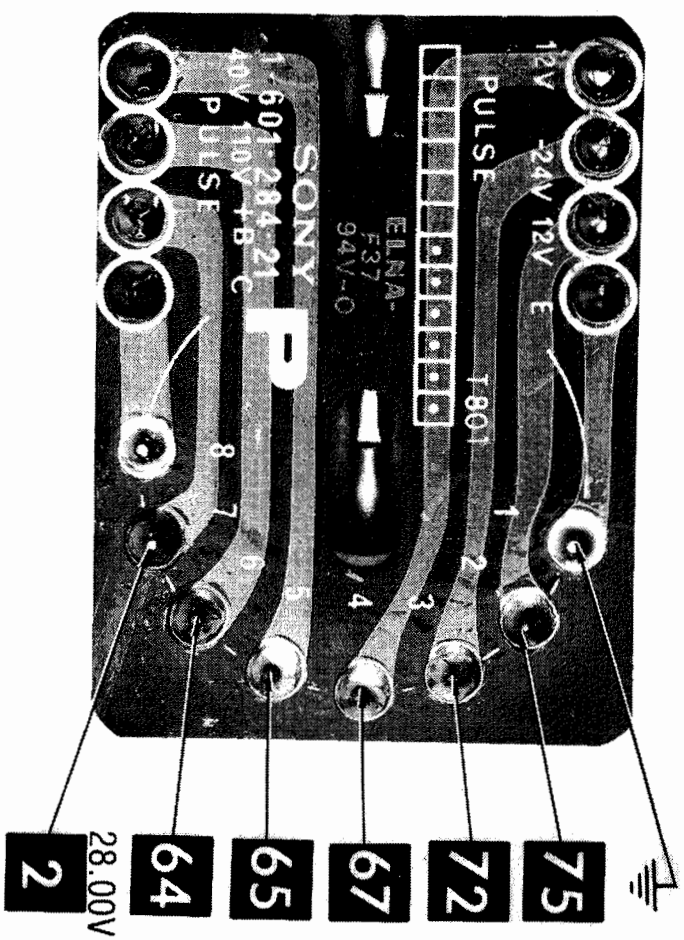
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* LOCATED OTHER SIDE OF BOARD



(P) HORIZ OUTPUT TRANSFORMER BOARD

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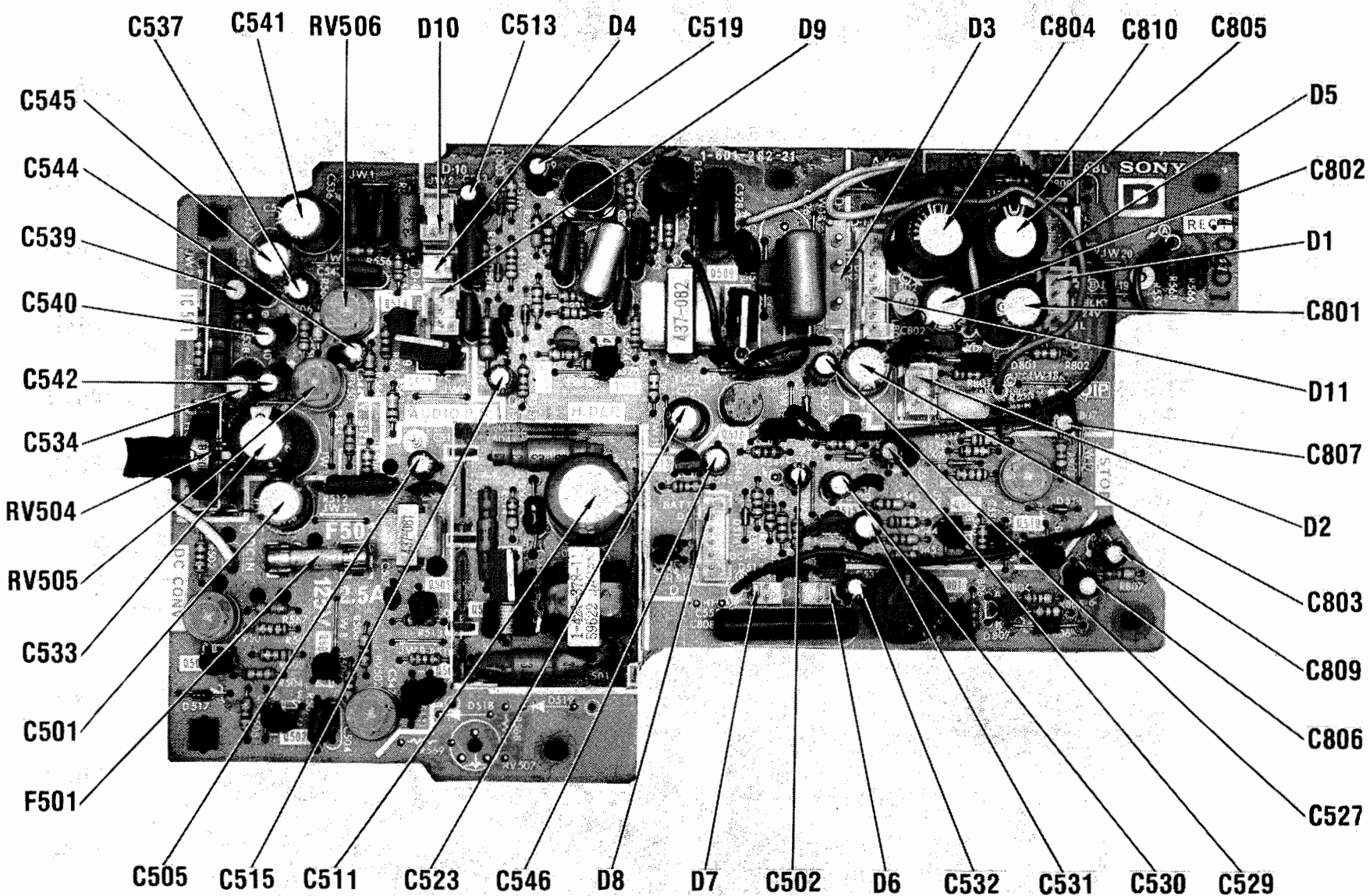


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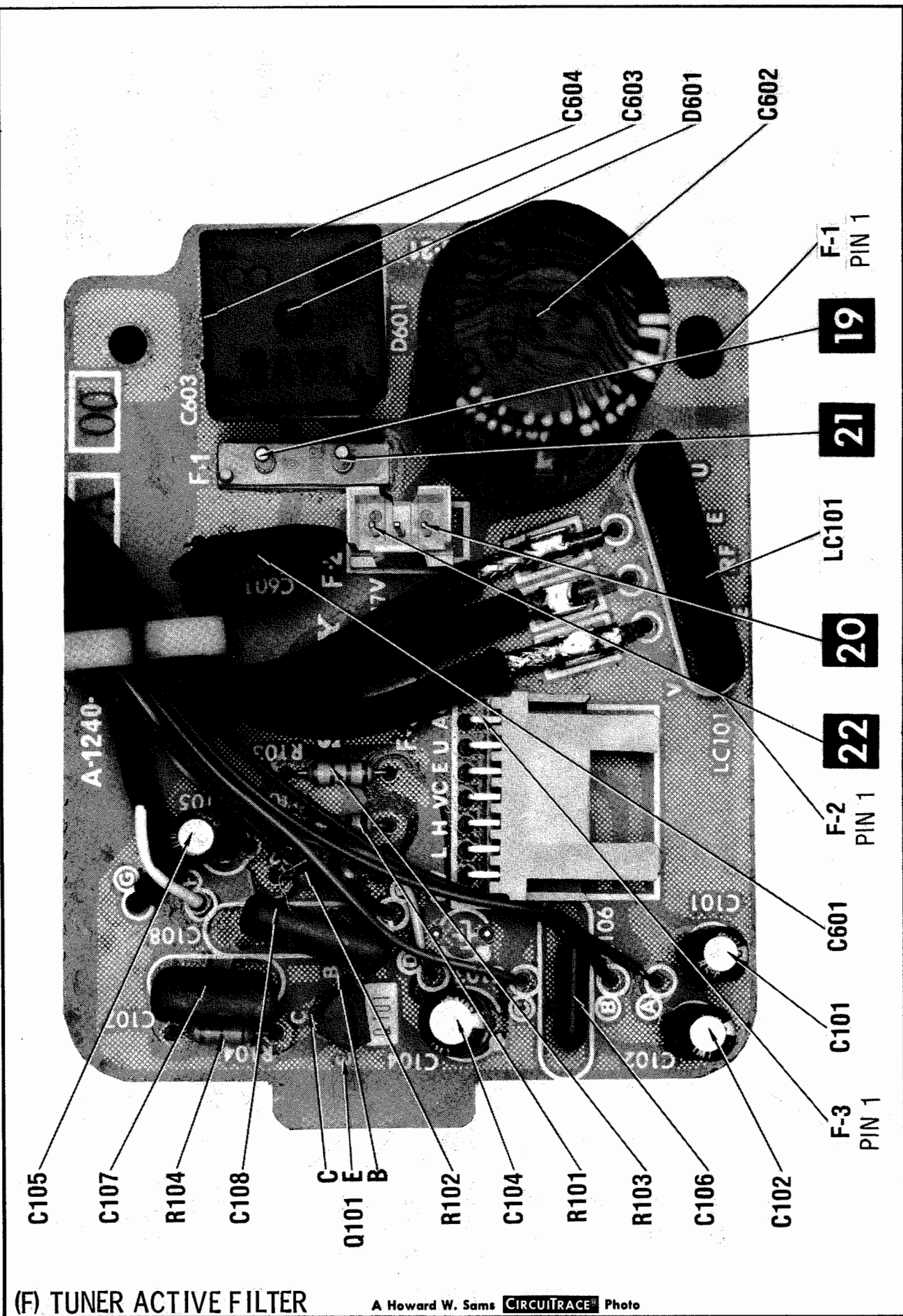
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(F) TUNER ACTIVE FILTER

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MISCELLANEOUS ADJUSTMENTS (Continued)

COLOR TEMPERATURE ADJUSTMENT

Connect a Color-Bar Generator to the antenna terminals and tune in a crosshatch pattern. Turn Brightness and Picture Controls to MINIMUM. Turn Green (RV311) and Blue (RV312) Drive Control fully clockwise. Set Red (RV308), Green (RV309) and Blue (RV310) Background Controls to mid-range. Turn Screen Control (RV701) to obtain a faintly visible crosshatch pattern. Adjust the Background Controls for best white balance on faintly visible crosshatch. Turn Brightness and Picture Controls to maximum. Adjust the Drive Controls for best white balance. Check tracking at high and low brightness levels and repeat procedure if necessary.

CONVERGENCE ADJUSTMENT

Connect a crosshatch generator to the antenna terminals and tune in a dot pattern.

Adjust the Horiz Static Control to converge the red and blue horizontal dots over the green dot at the center of the screen. Rotate the Vert Static Magnets to converge the red and blue vertical dots over the green dot at the center of the screen. Slide the BMC mag-

net in and out to correct for insufficient Horiz Static Convergence. Rotate the BMC Magnet to correct for insufficient Vert Static Convergence. Loosen the deflection yoke and remove yoke spacers. Tilt the yoke up or down to converge the vertical lines at top and bottom of the screen. Tilt the yoke right or left to converge the vertical lines at the right and left sides of the screen. Tighten the yoke clamp and replace the yoke spacers. Place permalloy magnets to correct corner convergence.

If further convergence is necessary move VTC Connector (On BMC Magnet Assembly) to position which gives best overall convergence.

NOTE: BMC magnet not on all model.

SERVICE INFORMATION

FAILSAFE

If the high voltage increases to an unsafe level, the high voltage protection circuitry will activate and cause loss of raster and sound. (See R566 Adjustment).

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MISCELLANEOUS ADJUSTMENTS

HORIZONTAL FREQUENCY ADJUSTMENT

Tune in a picture. Connect a 10uF, 50 volt capacitor from Pin 2 of D9 Connector to ground. Adjust Horizontal Oscillator Coil (L505) until picture stops or slowly floats across the screen. Remove capacitor and check on all channels.

AGC ADJUSTMENT

Tune in a weak station and adjust RF AGC Control (RV201) for maximum contrast and MINIMUM snow.

SUB CONTRAST ADJUSTMENT

Tune in a picture and set Picture and Brightness Control for a normal picture. Set Auto-AFT Switch to Off and set Color Control fully counterclockwise. Set Sub Contrast Control (RV306) for desired contrast.

COLOR LEVEL ADJUSTMENT (ACC)

Tune in a picture and set Color and Hue Controls to mid-range. Adjust Color Level Control (RV307) for proper color intensity.

SUB BRIGHTNESS ADJUSTMENT

Tune in a picture and set Brightness Control for a normal picture. Set Picture Control fully counterclockwise. Set AFT-Auto Switch to Off and Color Control fully counterclockwise. Adjust Sub Brightness Control (RV305) for proper brightness.

COLOR SYNC ADJUSTMENT

Connect a Color-Bar Generator to the antenna terminals and tune in a Color-Bar pattern. Set Auto-AFT Switch to On, Color and Hue Controls to mid-range and Picture Control fully clockwise. Connect a 27K ohm resistor from Pin 18 to Pin 1 of IC301. Connect a 10K ohm resistor from Pin 7 of A-3 plug (cathode of D301) to Pin 1 of IC301. Connect a jumper from Pin 16 to Pin 17 of IC301. Adjust Color Sync Trimmer (CV301) until colors stop or slowly float.

BATTERY STOP ADJUSTMENT

Connect a jumper from negative terminal (-) to terminal (J) (X1 Board). Turn Battery Stop Control (RV503) fully clockwise. Disconnect AC power cord and car battery cords. Connect a regulated DC power supply to positive and negative terminals (X1 Board). Adjust power supply for 9.7 to 9.9 volts DC. Slowly adjust Battery Stop Control (RV503) counterclockwise to a point where raster disappears.

Adjust power supply for 9.9 to 10.1 volts DC and check to see if the raster returns.

HORIZONTAL CENTERING

If necessary connect a jumper from TP17 to TP18 or TP19 to correct horizontal centering. (Used in some versions).

VERTICAL CENTERING

If necessary connect a jumper from TP20 to ground or TP21 to correct vertical centering.

B+ AND R567 ADJUSTMENT

NOTE: If D501, R501, R502, R508, R509, R567, RV501, RV502 have been replaced make the following adjustments.

Connect an ammeter across fuse (F501) and then disconnect the fuse. Set Regulator Limit Adjust Control (RV502) to mechanical center. Connect a voltmeter to the emitter of Q504. Connect a regulated DC power supply to External DC In Connector and adjust power supply for 26.4 volts DC. Adjust +28V Adjust Control (RV501) for +28 volts DC. Set power supply to 12 volts DC and slowly reduce this voltage until the current on the ammeter becomes maximum. Adjust Regulator Limit Adjust Control (RV502) for 1.25 amps. Adjust +28V Adjust Control (RV501) for maximum voltage. Set power supply to 26.4 volts DC. Check to see if the voltmeter reading is within a range of +28 volts to +30 volts. If this voltage is not within this range, select a proper resistance value for resistor R567.

Adjust +28V Adjust Control (RV501) for +28 volts DC.

R566 ADJUSTMENT

If any of these components are changed, D510, D511, D512, R553, R565 and R566, use this procedure. Set power switch to On. Connect a regulated DC power supply to -24 volt Test Point (D Board). Positive lead to ground. Adjust power supply for -27.8 to -28.0 volts DC. The picture and sound should cut-off. Disconnect the power supply and turn power switch to Off, then set the power switch to On. Connect negative lead of power supply to -24 Volt Test Point (Positive lead to ground). Adjust power supply for -26.0 volts DC. The set should now be operating normally.

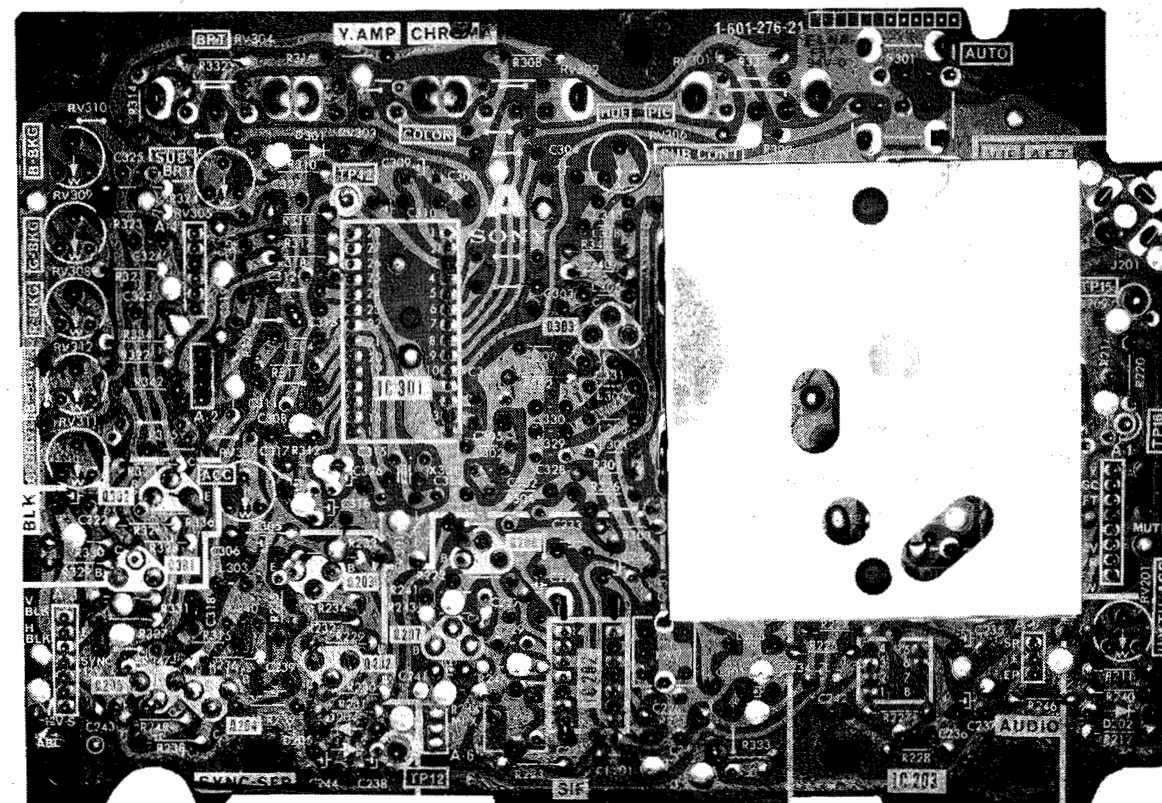
NOTE: If the above procedure does not check out, select proper resistance value for R566 (1/4 watt carbon) and repeat the procedure.

PURITY ADJUSTMENT

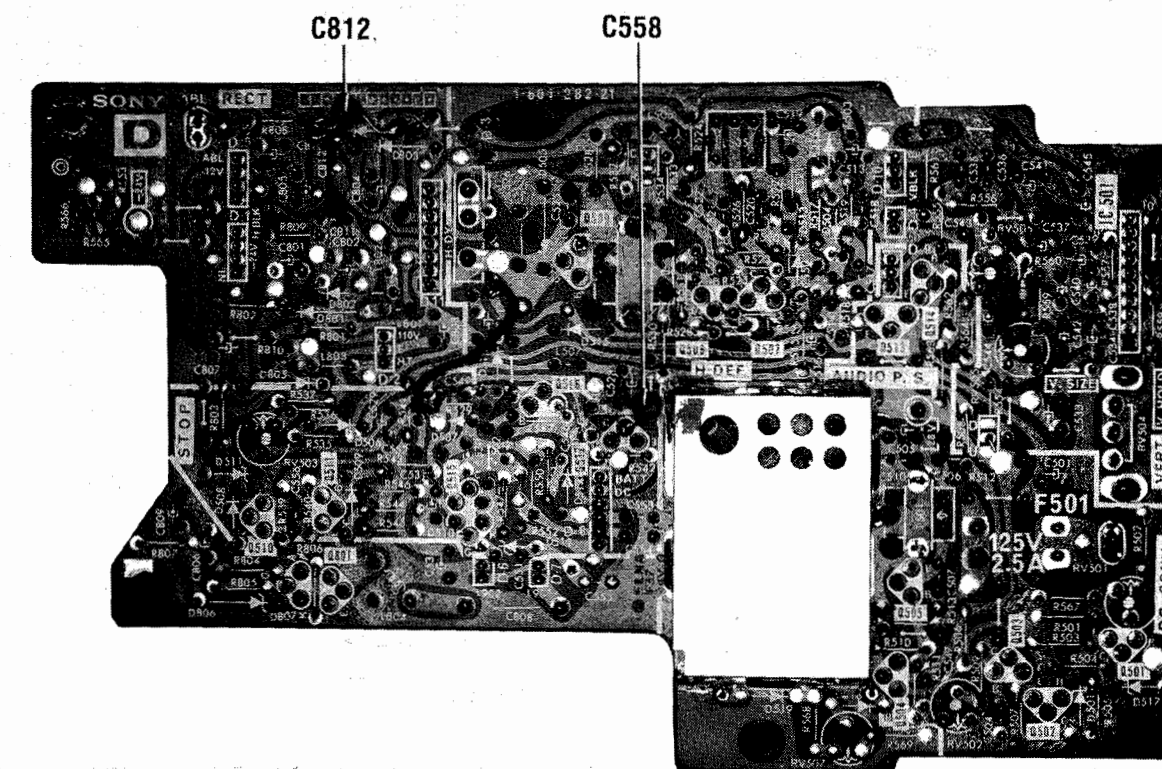
If the picture tube appears to be magnetized, use a degaussing coil to demagnetize the picture tube.

Loosen the deflection yoke and slide it forward as far as possible. Disconnect resistors R318 and R319 (one end). Adjust purity tabs on rear of deflection yoke to center the vertical green band. Slide the deflection yoke back until a uniform green screen is obtained. Reconnect resistors R318 and R319.

If necessary use disc magnets to correct impurity at the corners of the screen. Place disc magnets at the rear corners of the picture tube.



(A) V IF-S IF-AFT-CHROMA-SYNC SEP BOARD SHIELD LOCATION



(D) POWER SUPPLY-AUDIO-SWEEP-DC CONV BOARD SHIELD LOCATION

SONY MODEL KV-5200
(Ch. SCC-239A-A)

FOLDER 2

CRT DISPLAY ADJUSTMENT

VERT. (U), VERT. (D)

1. Set the CHANNEL SET switch to ON.
2. Adjust the display position. (Fig. 4-1)
VERT (U): Adjust RV111 so that L1 becomes about 12mm.
VERT (D): Adjust RV110 so that L2 becomes about 16mm.

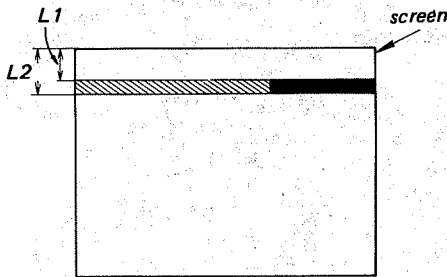


Fig. 4-1.

HOR (P)

1. Set the CHANNEL SET switch to ON.
2. Press the CLEAR switch.
3. Adjust RV113 so that the L3 becomes about 6mm (red) at VHF low band. (Fig. 4-2.)

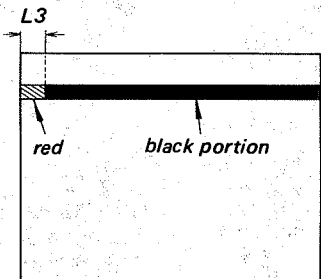


Fig. 4-2.

HOR (W), BAR

1. Set the CHANNEL SET switch to ON.
2. Press the TUNING UP (▶) button to set the highest UHF channel. (the position to stop searching)
3. HOR (W): Adjust RV114 so that the width (L4) of the black portion becomes about 6mm from the right side of the screen. (Fig. 4-3.)
4. BAR: Adjust RV112 so that number of bars are eight and the length of right green band from the 8th bar becomes 1 through 4.

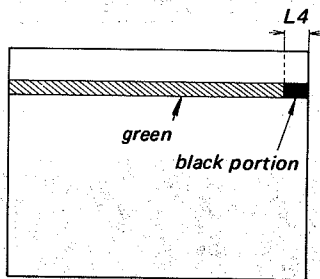


Fig. 4-3.

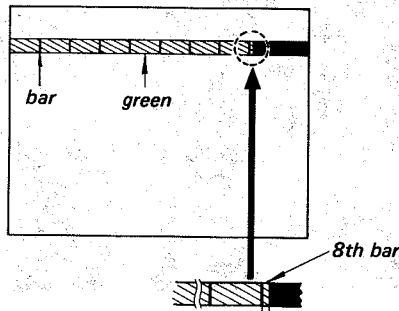
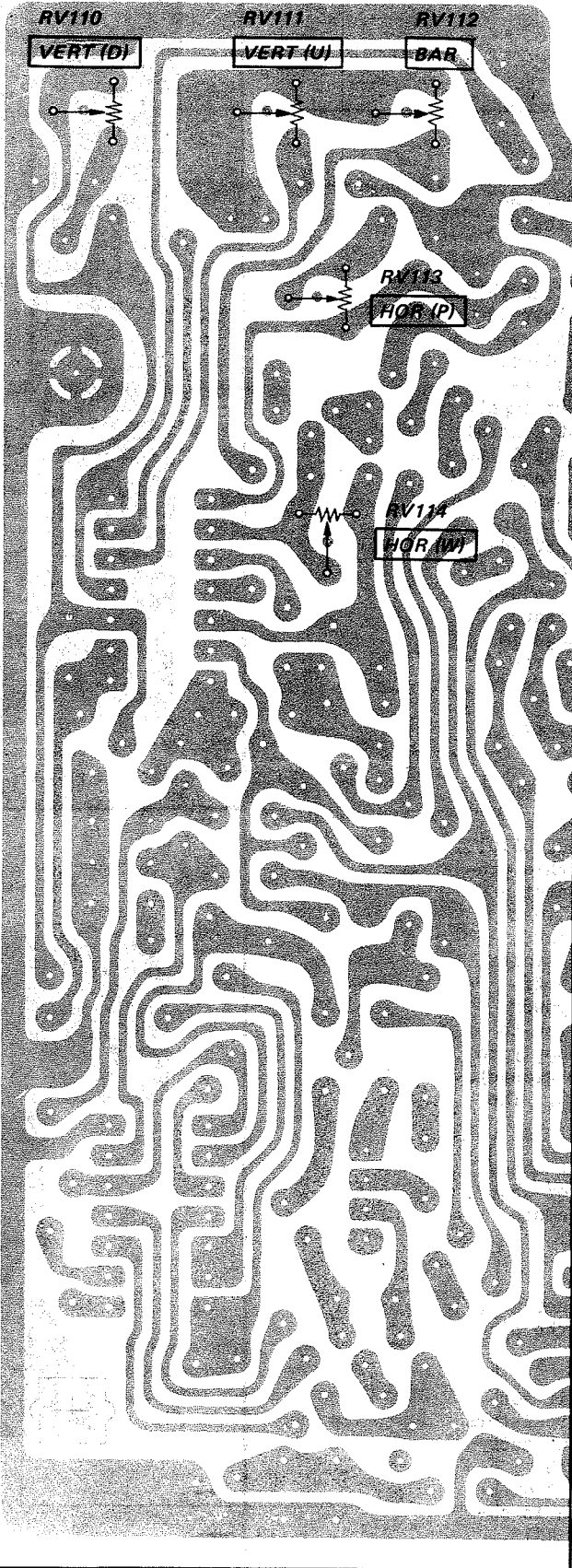
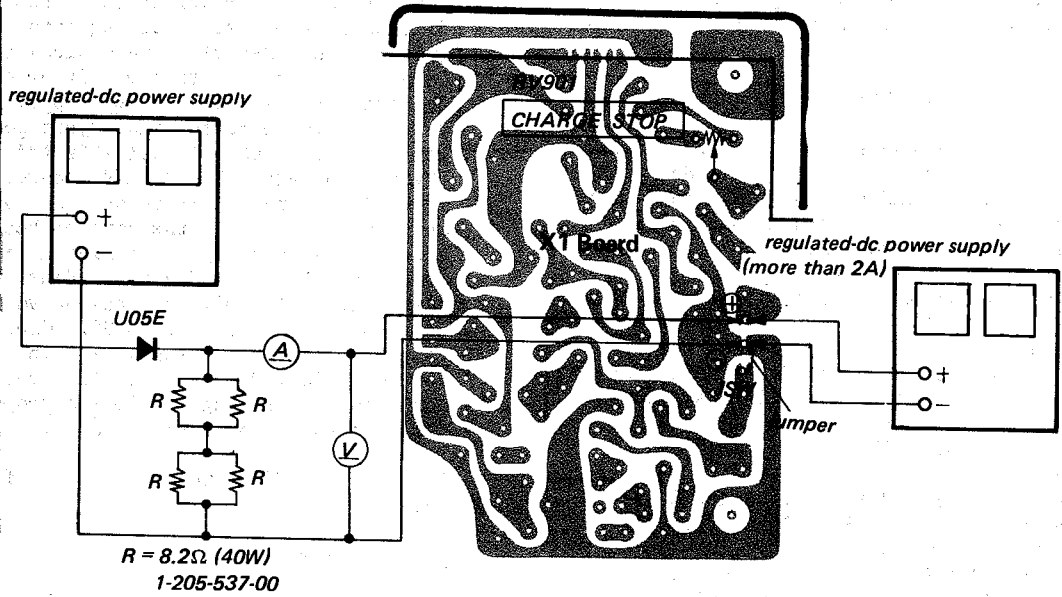


Fig. 4-4.



X1 BOARDS ADJUSTMENTS

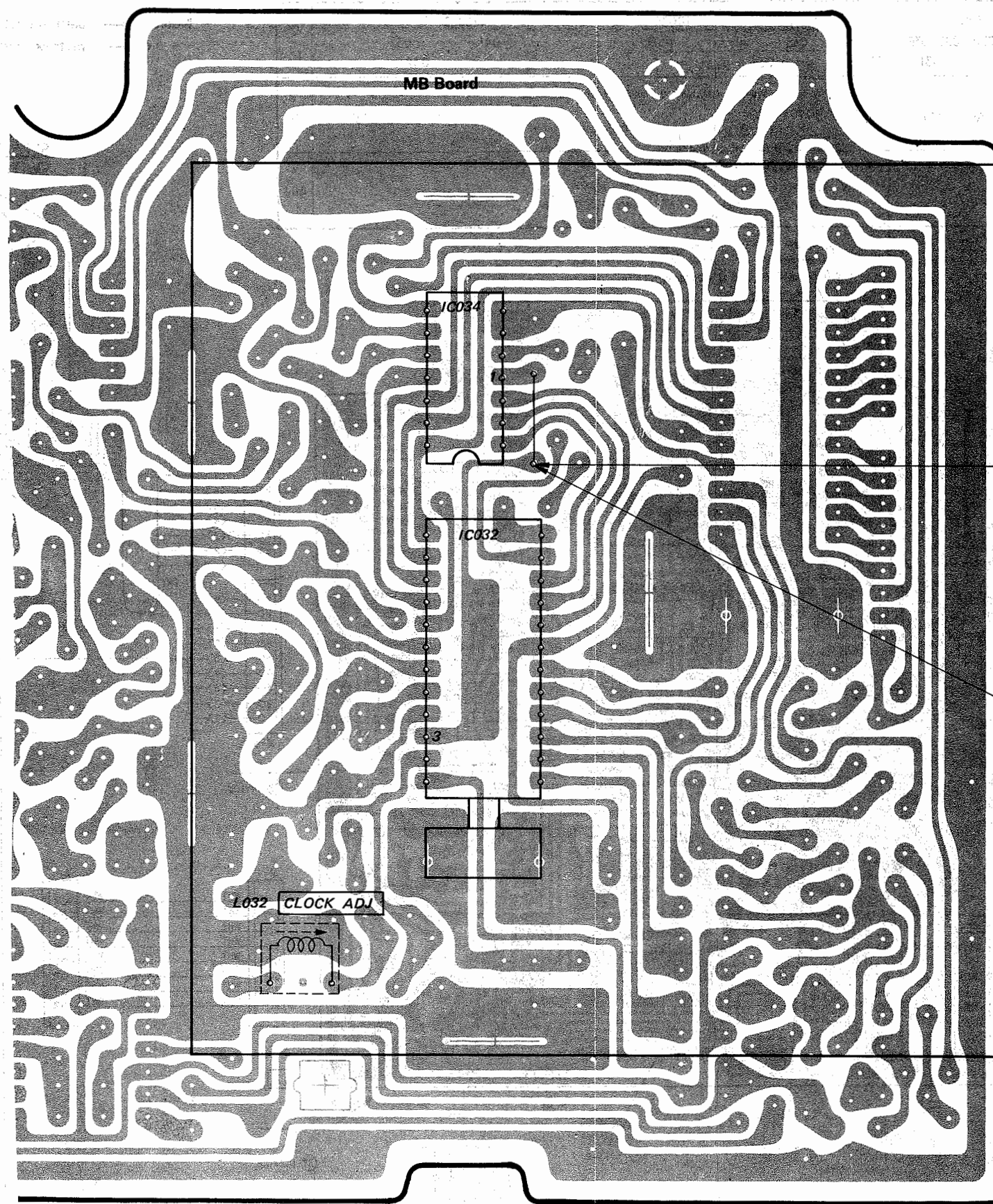


CHARGE STOP

1. Connect voltmeter, ammeter, diode, resistance and regulated-dc power supply to the ⊕ and ⊖ terminals on X1 board as shown in the figure.
2. Turn RV901 fully counterclockwise to locked position from the component side.
3. Supply 120 AC to AC IN connector.
4. Set the CHARGE switch to the CHARGE position.
5. Supply the dc voltage from the regulated-dc power supply and adjust the regulated-dc power supply for 16.0V on the voltmeter.
6. Slowly rotate RV901 and stop it in a position where the indicated value of the ammeter drops from $540 \pm 200\text{mA}$ to $100 \pm 5\text{mA}$.

SONY MODEL KV-5200
(Ch. SCC-239A-A)

FOLDER 2



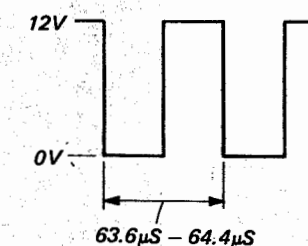
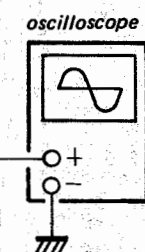
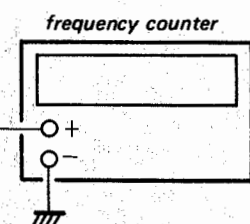
CLOCK ADJ

• USING FREQUENCY COUNTER

Adjust L032 for $15.6 \pm 0.1\text{kHz}$ on the frequency counter.

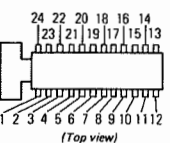
USING OSCILLOSCOPE

- Adjust L032 so that the clock pulse is $63.6\mu\text{s}$ to $64.4\mu\text{s}$ as shown.

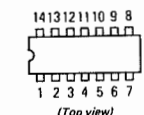


— MB Board —

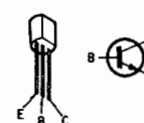
CX760
CX804



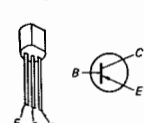
CX761
μPC339C
μPC4081C



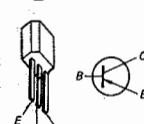
2N3904



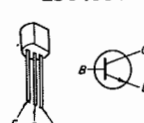
2SA733



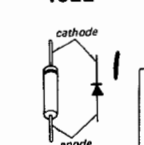
2SA1027R



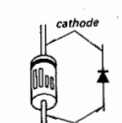
2SC1364



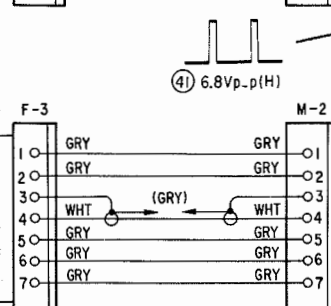
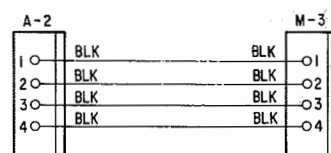
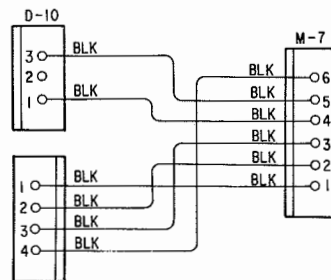
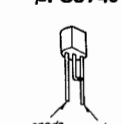
1S1555
10E2



EQA01-08S
EQA01-09R
EQB01-08
EQB01-09
RD9.1E
RD9.1E-B3Z
SIB01-02



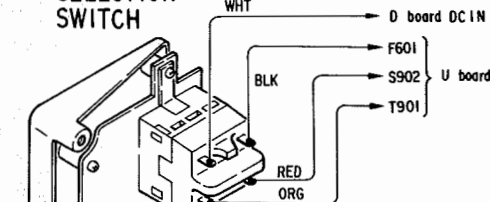
μPC574J



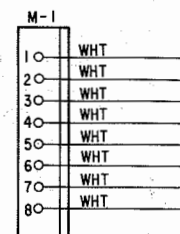
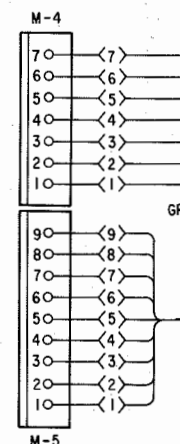
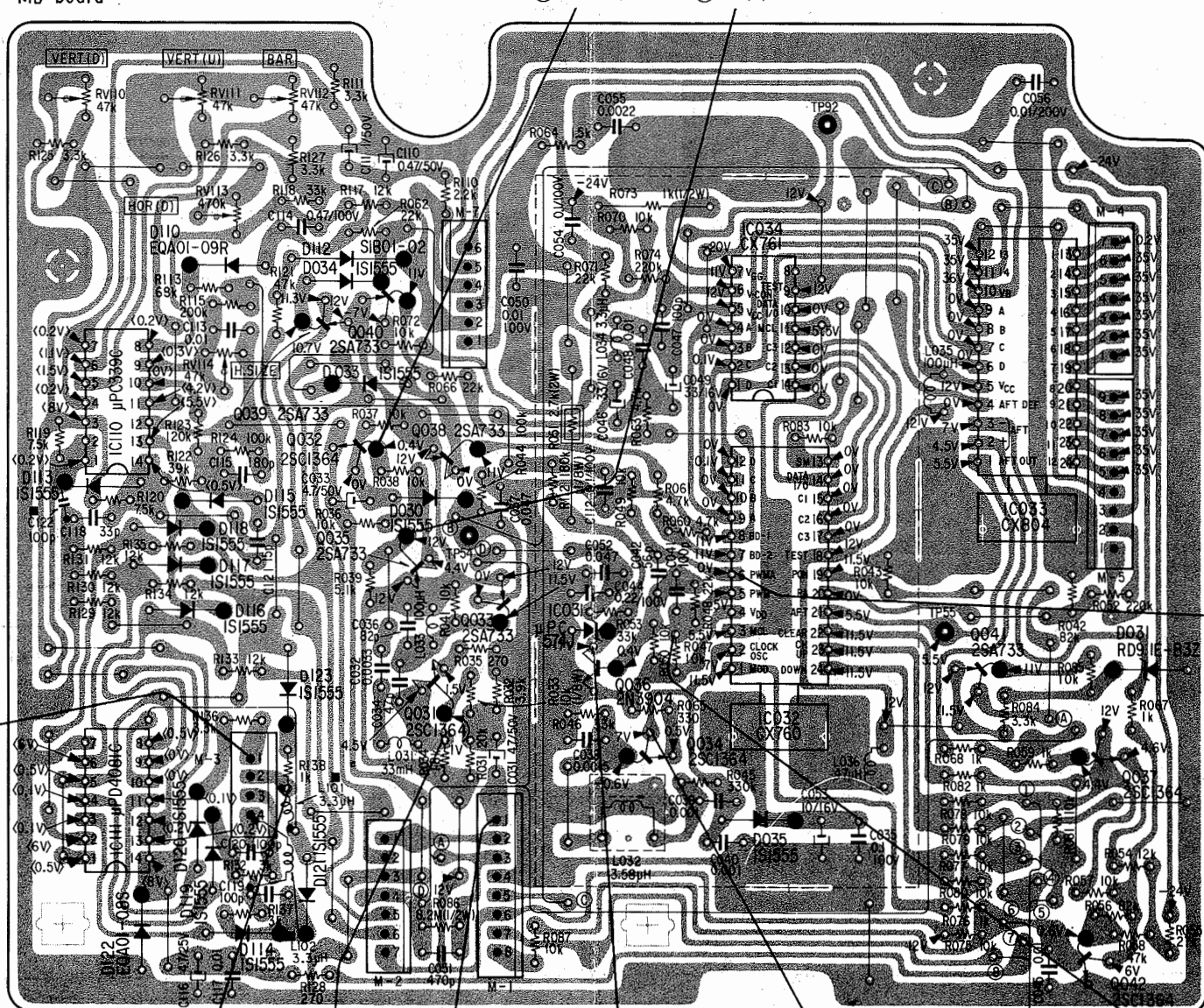
Q	IC	IC110	IC111	IC113	IC118	IC115	IC123	IC112	IC1031	IC1034	IC1033	Q
D												D
ADJ												ADJ

Note: ● : parts extracted from the component side.
● : parts extracted from the conductor side.

SELECTION
SWITCH



MB board



21



37

11.2Vp.p

14Vp.p

3.3Vp.p

1V p.p(H)

4.6Vp.p(H)

12Vp.p(V)

33Vp.p

11.5Vp.p

6.8Vp.p(H)

0.8Vp.p(H)

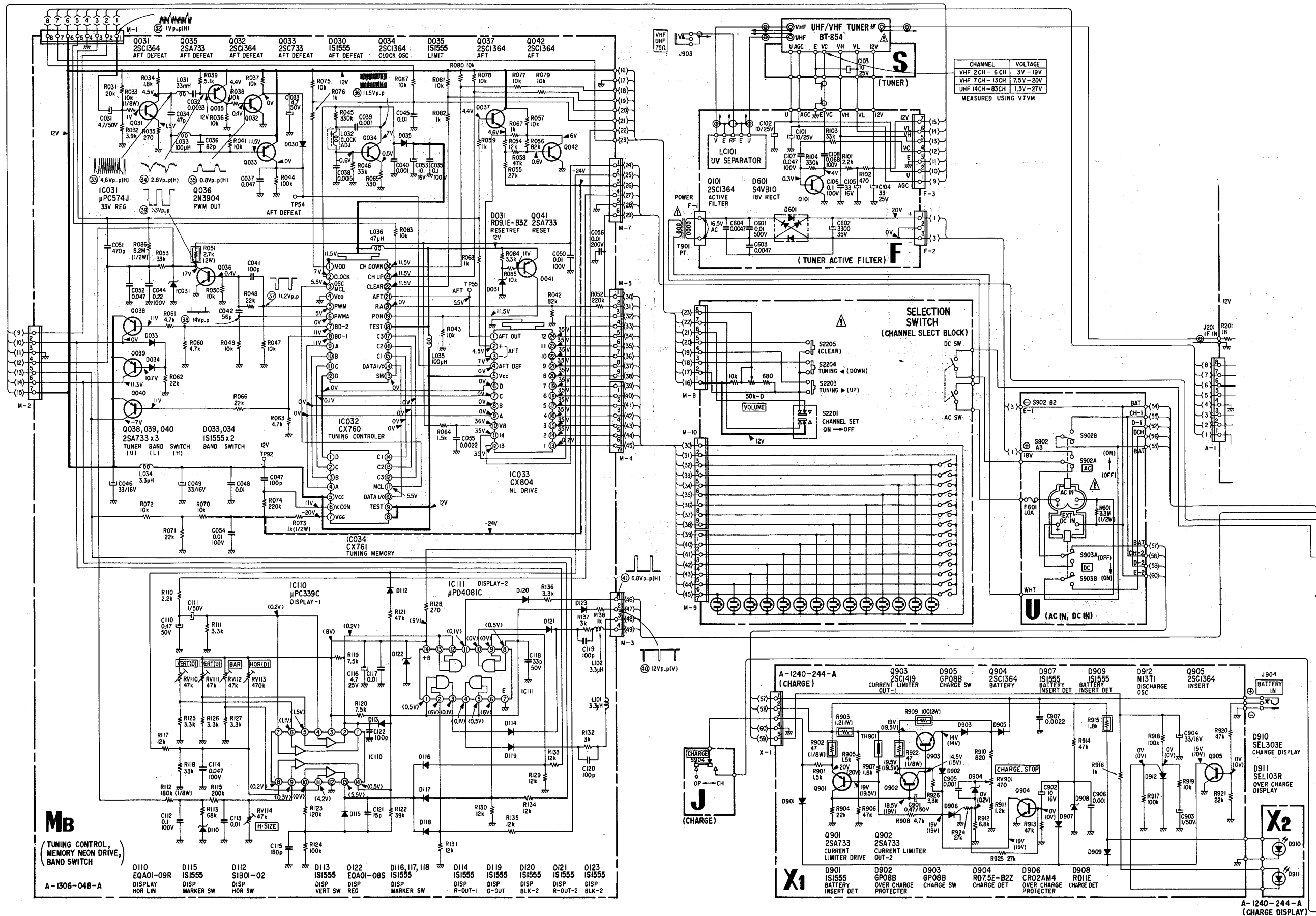
2.8Vp.p(H)

(MB) CHANNEL SELECTOR (BOARD)

Courtesy of the Manufacturer

(MB) CHANNEL SELECTOR (BOARD)

FOLDER 2



SONY MODEL KV-5200
(Ch. SCC-239A-A)

FOLDER 2

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.

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

ITEM	PART No.	ITEM	PART No.
Cabinet Lower Assembly	X-4339-302-0	Chassis Back	4-339-245-00
Cabinet Upper Assembly	X-4339-303-1	Button Assembly	X-4339-207-1
Cover, Hood	4-339-206-00	Cabinet Rubber Foot	2-092-326-XX
Filter (Sun Screen)	4-339-236-00	HV Rubber Cup	3-706-238-00
Handle	4-339-244-00	Knob-Adjustment	4-339-221-00
Mask (Cabinet)	4-339-249-00	Knob-Selection	4-339-222-00
Cover Battery	4-339-246-00		

WIRING DATA

High Voltage Lead	Use BELDEN No. 9867 (30 KV)
Shielded Hook-up Wire	Use BELDEN No. 8401 or 8421 (Single-Conductor)
	8208 (Two-Conductor)
General-use Unshielded Hook-up Wire	Use BELDEN No. 8528 (Solid) Available in 13 Colors
	8522 (Stranded) Available in 13 Colors
300-Ohm Tuner Input Lead	Use BELDEN No. 8225
75-Ohm Tuner Input Lead	Use BELDEN No. 8241
300-Ohm Antenna Lead-in	Use BELDEN No. 8275 (Foam Core) or 8285 (Foam Jacketed)
Antenna Rotor Cable	Use BELDEN No. 8464 (Flat) or 8484 (Round) 4-Conductor
	8485 (Round) 5-Conductor
	8488 (Round) 8-Conductor

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.

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA						
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D202	RD9.1EB3Z	8-719-191-07	GEZD-9.1	ZM9.1B	SK3784/5018A	ECG5018A	TM5018A	WEP1419/5018	103-279-18
D204	1S1555	8-719-815-55	GE-300	PTC214	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D205	1S1555	8-719-815-55	GE-300	PTC214	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D301	SI801-02	8-719-200-02	GE-504A	PTC201	SK3311	ECG116	TM116	WEP156	212-76-02
	10EZ		GE-504A	PTC201	SK3311	ECG116	TM116	WEP156	212-76-02
D501	RD6.2EZ7S	8-719-162-07	GEZD-6.2	ZM6.2B	SK3779/5013A	ECG5013A	TM5013A	WEP1414/5013	103-29008
D502	ER881-004	8-719-982-04	GE-509	PTC203	SK3080	ECG125	TM125	WEP170/125	212-29000
D503	1S1555	8-719-815-55	GE-300	PTC214	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D504	1S1555	8-719-815-55	GE-300	PTC214	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D505	HF-1	8-719-815-55	GE-511	PTC216	SK3843/506	ECG552	TM552	WEP172/506	103-287
D506	GH-3F	8-719-305-15	GE-530		SK3925/525	ECG551	TM551	WEP177/525	212-29010
D507	1S1555	8-719-815-55	GE-300	PTC214	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D508	1S1555	8-719-815-55	GE-300	PTC214	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D509	1S1555	8-719-815-55	GE-300	PTC214	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D510	N13T1	8-729-101-31			SK3628/6402	ECG6402	TM6402	WEP1076/6402	121-29071
D511	RD6.2EZ7S	8-719-162-07	GEZD-6.2	ZM6.2B	SK3779/5013A	ECG5013A	TM5013A	WEP1414/5013	103-29008
D512	RD11E-83Z	8-719-111-26	GEZD-11	ZM11B	SK3786/5020A	ECG5020A	TM5020A	WEP1421/5020	103-279-20
	BS								
D513	1S1555	8-719-815-55	GE-300	PTC214	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D514	1S1555	8-719-815-55	GE-300	PTC214	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D515	1S1555	8-719-815-55	GE-300	PTC214	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D516	1S1555	8-719-815-55	GE-300	PTC214	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D517	RD11E-83Z	8-719-111-26	GEZD-11	ZM11B	SK3786/5020A	ECG5020A	TM5020A	WEP1421/5020	103-279-20
D601	S4V810	8-719-504-10	GE8R-206	FWHF200	SK3311(4)	ECG5313	TM116(4)	WEP1045	212-76-02(4)
D801	HF1C	8-719-320-31	GE-511	PTC216	SK3843/506	ECG552	TM552	WEP172/506	103-287
D802	HF1C	8-719-320-31	GE-511	PTC216	SK3843/506	ECG552	TM552	WEP172/506	103-287
D803	V09C	8-719-900-93	GE-511	PTC216	SK3843/506	ECG552	TM552	WEP172/506	103-287
D804	V09C	8-719-900-93	GE-511	PTC216	SK3843/506	ECG552	TM552	WEP172/506	103-287
D805	V09C	8-719-900-93	GE-511	PTC216	SK3843/506	ECG552	TM552	WEP172/506	103-287
D806	EQ8D1-06	8-719-931-06	GEZD-6.2	ZB6.2B	SK3058/137A	ECG137A	TM137A	WEP1154/137A	103-29008
	EQA01-06S		GEZD-6.2	ZB6.2B	SK3058/137A	ECG137A	TM137A	WEP1154/137A	103-29008
D807	N13T1	8-729-101-31			SK3628/6402	ECG6402	TM6402	WEP1076/6402	121-29071
D901	1S1555	8-719-815-55	GE-300	PTC214	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D902	GP088	8-719-911-55	GE-512	PTC204	SK3051/156	ECG156	TM156	WEP4008/156	212-29000
	U05G		GE-512	PTC204	SK3051/156	ECG156	TM156	WEP4008/156	212-29000
D903	GP088	8-719-911-55	GE-512	PTC204	SK3051/156	ECG156	TM156	WEP4008/156	212-29000
	U05G		GE-512	PTC204	SK3051/156	ECG156	TM156	WEP4008/156	212-29000
D904	EQ8D1-08	8-719-931-08	GEZD-7.5	ZM7.5B	SK3781/5015A	ECG5015A	TM5015A	WEP1416/5015	103-29002
	RD7.5E-B2Z		GEZD-7.5	ZM7.5B	SK3781/5015A	ECG5015A	TM5015A	WEP1416/5015	103-29002
D905	GP088	8-719-911-55	GE-512	PTC204	SK3051/156	ECG156	TM156	WEP4008/156	212-29000
	U05G		GE-512	PTC204	SK3051/156	ECG156	TM156	WEP4008/156	212-29000
D906	CRO2AM4	8-719-901-24			SK3627/5404	ECG5404		WEP6324/5404	185-29007
	CV12E				SK3598/5457	ECG5457			
D907	1S1555	8-719-815-55	GE-300	PTC214	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D908	RD11E	8-719-111-07	GEZD-11	ZM11B	SK3786/5020A	ECG5020A	TM5020A	WEP1421/5020	103-279-20
D909	1S1555	8-719-815-55	GE-300	PTC214	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D912	N13T1	8-729-101-31			SK3628/6402	ECG6402	TM6402	WEP1076/6402	121-29071
IC201	CX555A	8-759-600-05							
	M5185P								
IC202	CX095C	8-759-600-95			SK3833/1308	ECG1308	TM1308		905-106
IC203	LM386N	8-759-903-86				ECG823	TM823		
IC301	CX556	8-759-105-56							
	UPC1352C								
IC501	UPC1031H	8-759-110-31			SK3878/1245	ECG1245	TM1245		905-165
M801	2SC1364	1-453-082-00	GE-210	PTC121*	SK3124/289	ECG123AP*	TM123AP*	WEP634	121-29000A*
Q101	2SC2009	8-729-663-47	GE-39*	PTC132	SK3246/229	ECG161*	TM161*	WEP63/161*	121-883*
Q201	2SA733AP	8-765-300-00	GE-48	PTC127	SK3114/290	ECG234	TM234	WEP62/159*	121-29067
Q202	2SA1027R	8-729-612-77	GE-82*	PTC103*	SK3841/294	ECG159*	TM159*	WEP62/159*	121-29003*
Q203	2SC1364	8-729-663-47	GE-210	PTC121*	SK3124/289	ECG123AP*	TM123AP*	WEP634	121-29000A*
Q204	2SC1364	8-729-663-47	GE-210	PTC121*	SK3124/289	ECG123AP*	TM123AP*	WEP634	121-29000A*
	2SC1363		GE-20*	PTC136*	SK3124/289	ECG123AP*	TM123AP*	WEP633	121-29000A*
Q205	2SA733AP	8-729-612-77	GE-48	PTC127	SK3114/290	ECG234	TM234	WEP62/159*	121-29067
	2SA1027R	8-729-612-77	GE-82*	PTC103*	SK3841/294	ECG159*	TM159*	WEP62/159*	121-29003*
Q206	2SC1364	8-729-663-47	GE-210	PTC121*	SK3124/289	ECG123AP*	TM123AP*	WEP634	121-29000A*
Q301	2SC1364	8-729-663-47	GE-210	PTC121*	SK3124/289	ECG123AP*	TM123AP*	WEP634	121-29000A*
Q302	2SA733AP	8-729-612-77	GE-48	PTC127	SK3114/290	ECG234	TM234	WEP62/159*	121-29067
	2SA1027R	8-729-612-77	GE-82*	PTC103*	SK3841/294	ECG159*	TM159*	WEP62/159*	121-29003*
Q303	2SC1364	8-729-663-47	GE-210	PTC121*	SK3124/289	ECG123AP*	TM123AP*	WEP634	121-29000A*
Q501	2SC1364	8-729-663-47	GE-210	PTC121*	SK3124/289	ECG123AP*	TM123AP*	WEP634	121-29000A*
Q502	2SC1364	8-729-663-47	GE-210	PTC121*	SK3124/289	ECG123AP*	TM123AP*	WEP634	121-29000A*
Q503	2SC1364	8-729-663-47	GE-210	PTC121*	SK3124/289	ECG123AP*	TM123AP*	WEP634	121-29000A*
Q504	2SA733AP	8-729-612-77	GE-48	PTC127	SK3114/290	ECG234	TM234	WEP62/159*	121-29067
	2SA1027R	8-729-612-77	GE-82*	PTC103*	SK3841/294	ECG159*	TM159*	WEP62/159*	121-29003*
Q505	2SC1364	8-729-663-47	GE-210	PTC121*	SK3124/289	ECG123AP*	TM123AP*	WEP634	121-29000A*
Q506	2SC2334	8-729-133-40	GE-215	PTC110	SK3197/235	ECG235	TM235	WEP785/235	121-29039
	2SC1173		GE-215	PTC110	SK3197/235	ECG235	TM235	WEP745/152	121-29040
Q507	2SA733AP	8-729-612-77	GE-48	PTC127	SK3114/290	ECG234	TM234	WEP62/159*	121-29067
	2SA1027R	8-729-612-77	GE-82*	PTC103*	SK3841/294	ECG159*	TM159*	WEP62/159*	121-29003*
Q508	2SC1364	8-729-663-47	GE-210	PTC121*	SK3124/289	ECG123AP*	TM123AP*	WEP634	121-29000A*

SONY MODEL KV-5200
(Ch. SCC-239A-A)

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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.

SEMICONDUCTORS (Select replacement transistor for best results)-(cont)

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA						
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
Q509	2SC2335	8-729-133-53	GE-66	PTC110	SK3893/152	ECG152	TM152	WEP745/152	121-987-03
Q510	2SA733AP	8-729-612-77	GE-48	PTC127	SK3114/290	ECG234	TM234	WEP62/159*	121-29067
	2SA1027R		GE-82*	PTC103*	SK3841/294	ECG159*	TM159*	WEP62/159*	121-29003*
Q511	2SC1364	8-729-663-47	GE-210	PTC121*	SK3124/289	ECG123AP*	TM123AP*	WEP634	121-29000A*
Q512	2SA733AP	8-729-663-47	GE-48	PTC127	SK3114/290	ECG234	TM234	WEP62/159*	121-29067
	2SA1027R	8-729-612-77	GE-82*	PTC103*	SK3841/294	ECG159*	TM159*	WEP62/159*	121-29003*
Q513	2SC1419B	8-729-316-12	GE-66	PTC167	SK3197/235	ECG152	TM152	WEP745/152	121-987-03
	2SC1061		GE-66	PTC167	SK3893/152	ECG152	TM152	WEP745/152	121-987-03
Q514	2SC1364	8-729-663-47	GE-210	PTC121*	SK3124/289	ECG123AP*	TM123AP*	WEP634	121-29000A*
Q515	2SC1364	8-729-663-47	GE-210	PTC121*	SK3124/289	ECG123AP*	TM123AP*	WEP634	121-29000A*
Q516	2SC1364	8-729-663-47	GE-210	PTC121*	SK3124/289	ECG123AP*	TM123AP*	WEP634	121-29000A*
Q701	2SC2606	8-729-322-78	GE-27		SK3201/171	ECG171	TM171	WEP702/171	121-822
	2SC2278		GE-27		SK3201/171	ECG171	TM171	WEP702/171	121-822
Q702	2SC2606	8-729-322-78	GE-27		SK3201/171	ECG171	TM171	WEP702/171	121-822
	2SC2278		GE-27		SK3201/171	ECG171	TM171	WEP702/171	121-822
Q703	2SC2606	8-729-322-78	GE-27		SK3201/171	ECG171	TM171	WEP702/171	121-822
	2SC2278		GE-27		SK3201/171	ECG171	TM171	WEP702/171	121-822
Q801	2S01015C	8-765-620-00							
Q901	2SA733AP	8-729-612-77	GE-48	PTC127	SK3114/290	ECG234	TM234	WEP62/159*	121-29067
	2SA1027R		GE-82*	PTC103*	SK3841/294	ECG159*	TM159*	WEP62/159*	121-29003*
Q902	2SA733AP	8-729-612-77	GE-48	PTC127	SK3114/290	ECG234	TM234	WEP62/159*	121-29067
	2SA1027R		GE-82*	PTC103*	SK3841/294	ECG159*	TM159	WEP62/159*	121-29003*
Q903	2SC1419	8-729-316-12	GE-66	PTC167	SK3197/235	ECG152	TM152	WEP745/152	121-987-03
	2SC1061		GE-66	PTC167	SK3893/152	ECG152	TM152	WEP745/152	121-987-03
Q904	2SC1364	8-729-663-47	GE-210	PTC121*	SK3124/289	ECG123AP*	TM123AP*	WEP634	121-29000A*
Q905	2SC1364	8-729-663-47	GE-210	PTC121*	SK3124/289	ECG123AP*	TM123AP*	WEP634	121-29000A*

#For SAFETY use only equivalent replacement part.

*Lead configuration may vary from original.

(4)Four required.

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.

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA				
		PART No.		BUSS PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
# F501	2.5A	1-532-562-00	1-553-146-00	AGC2.5	4406	
# F601	Quick-Acting 1A Slow-Blow	1-532-452-XX	1-553-146-00	MOL1	4406	

For SAFETY use only equivalent replacement part.

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF201	Filter	1-527-260-00	4.5MHz
CF202		1-409-332-00	4.5MHz
D910	LED	8-719-303-03	SEL303E, Charge Display
D911	LED	8-719-301-03	SEL103R, Overcharge/Display
J201	Socket	1-526-575-00	Plug, IF IN
J901	Jack	1-507-663-00	Earphone
J903	Jack	1-507-569-00	VHF/UHF
J904	Connector	1-507-549-00	Power/Battery
# L901	Degaussing Coil	1-426-023-00	
# L902	Degaussing Coil	1-426-023-00	
# LC101	Component Combination	1-417-060-00	Separator UV
# M1	AC Power Cord	1-551-379-00	
SG701	Spark Gap	1-519-063-XX	
SG702	Spark Gap	1-519-063-XX	
SG703	Spark Gap	1-519-063-XX	
SG704	Spark Gap	1-519-063-XX	
SG705	Spark Gap	1-519-063-XX	
# S902A	Switch	1-561-436-00	AC Switch
# S903A	Switch	1-561-436-00	OC Switch
# S904A	Switch	1-516-576-00	Charge, Slide Switch
# S905	Switch		TV On/Off Switch
# S301A	Switch	1-552-340-00	Auto/AFT, Rotary
# V901	CRT	8-736-201-05	Picture Tube, 150AR822
X301	Crystal	1-527-396-00	Osc
	Magnet	1-452-126-11	
	Earphone	1-452-192-00	Correct BMC
	C Board	1-504-034-32	Disc
	O Board	1-601-281-00	R/G/B Output
	P Board	A-1345-261-A	Power Supply/Audio/Horiz & Vert Deflection/OC Conv
	S Board	1-601-284-00	(FBR) Horiz Output Transformer
	U Board	1-601-285-00	Tuner
	X1 Board	1-601-286-00	AC/OC IN
	X2 Board	A-1240-244-A	Charge
#	BT-854	1-463-285-00	Charge Display
	UHF/VHF Antenna	1-501-157-XX	UHF/VHF Tuner
	F Board	1-601-283-00	RUSSELL Replacement Rod POR-8WW
	J Board	1-601-280-00	Tuner Active Filter
	K1 Board	1-601-287-00	Charge
	MB Board	A-1306-048-A	Earphone
	A Board	A-1295-288A	Tuning Control/Memory Neon Drive/Band Switch
	F Board	1-601-283-00	Video, SIF, AFT Chroma-Sync Sep
#	Channel Select Block	1-553-077-00	Tuner Active Filter
			Includes Volume Control, Channel Indicator Lamps, Channel/Tuning Down/Tuning Up/Clear/Channel Set Switches

#For SAFETY use only equivalent replacement part.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFG. PART No.	MALLORY PART No.	SPRAGUE PART No.	
				Q-LINE	GENERAL LINE
C209	10 16V	1-123-316-00	VTT10B25	QV1-41	EV-1222
C210	2.2 50V	1-123-353-00	VTT2R2A50	QV1-21	EV-1617.1
C211	.47 50V	1-123-351-00	VTT4R7A63	QV1-3	EV-1610
C212	3.3 50V	1-123-354-00	VTT3R3A50	QV1-25	EV-1618.1
C213	10 16V	1-123-316-00	VTT10B25	QV1-41	EV-1222
C228	1 50V	1-123-352-00	VTT1A50	QV1-11	EV-1615
C232	.47 50V	1-123-351-00	VTT4R7A63	QV1-3	EV-1610
C233	470 16V	1-123-323-00	VTT470K16	QV1-151	EV-1251
C234	10 16V	1-123-316-00	VTT10B25	QV1-41	EV-1222
C235	100 16V	1-123-320-00	VTT100E16	QV1-95	EV-1231
C237	220 16V	1-123-321-00	VTT220H16	QV1-117	EV-1240
C238	1 50V	1-123-352-00	VTT1A50	QV1-11	EV-1615
C239	1 50V	1-123-352-00	VTT1A50	QV1-11	EV-1615
C244	33 16V	1-123-318-00	VTT33025	QV1-63	EV-1325
C301	470 16V	1-123-323-00	VTT470K16	QV1-151	EV-1251
C304	10 16V	1-123-316-00	VTT10B25	QV1-41	EV-1222
C306	.47 50V	1-123-351-00	VTT4R7A63	QV1-3	EV-1610
C307	10 16V	1-123-316-00	VTT10B25	QV1-41	EV-1222
C309	2.2 50V	1-123-353-00	VTT2R2A50	QV1-21	EV-1617.1
C310	2.2 50V	1-123-353-00	VTT2R2A50	QV1-21	EV-1617.1
C316	.22 50V	1-123-447-00	TDC224M050EL	QDT1-10	SD50-R229
C317	4.7 25V	1-123-328-00	VTT4R7B50	QV1-31	EV-1619.1
C320	10 16V	1-123-316-00	VTT10B25	QV1-41	EV-1222
C322	.47 50V	1-123-351-00	VTT4R7A63	QV1-3	EV-1610
C326	.22 50V	1-123-447-00	TDC224M050EL	QDT1-10	SD50-R229
C501	100 35V	1-123-345-00	VTT100K50	QV1-99	EV-1530
C502	1 50V	1-123-352-00	VTT1A50	QV1-11	EV-1615
C505	1 50V	1-123-352-00	VTT1A50	QV1-11	EV-1615
C511	1000 35V	1-123-349-00	TC50100C*	QE1-594*	TVA-1316*
C513	2.2 50V	1-123-353-00	VTT2R2A50	QV1-21	EV-1617.1
C515	.47 50V	1-123-351-00	VTT4R7A63	QV1-3	EV-1610
C519	3.3 50V	1-123-354-00	VTT3R3A50	QV1-25	EV-1618.1
C523	47 35V	1-123-344-00	VTT47E35	QV1-77	EV-1426.1
C527	10 16V	1-123-316-00	VTT10B25	QV1-41	EV-1222
C529	4.7 35V	1-123-328-00	VTT4R7B50	QV1-31	EV-1619.1
C530	.47 50V	1-123-351-00	VTT4R7A63	QV1-3	EV-1610
C531	10 16V	1-121-806-00	VTT10B25	QV1-41	EV-1222
C532	1 50V	1-123-352-00	VTT1A50	QV1-11	EV-1615
C533	1000 16V	1-123-324-00	VTT1000M16	QV1-183	EV-1261
C534	47 16V	1-123-319-00	VTT47016	QV1-73	EV-1226
C537	.47 50V	1-123-351-00	VTT4R7A63	QV1-3	EV-1610
C538	1 25V	1-131-347-00	TDC105M035EL	QDT1-25	SD35-19

SONY MODEL KV-S200
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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.

COILS & TRANSFORMERS (Sweep Circuits)

ITEM No.	FUNCTION	REPLACEMENT DATA				
		MFGR. PART No.	OTHER IDENTIFICATION	MILLER PART No.	THORDARSON PART No.	TRIAD PART No.
L502	Choke Coil	1-421-378-00	1-421-378-11			
L505	Horiz Oscillator	1-405-760-00	760-11			
L903&	Yoke Horiz 1.38mH	1-451-177-00	1-451-177-11			
L904	55° Vert 23.8mH					
T501	Current Driver	1-437-081-00	437-081-11			
T502	Horiz Driver	1-437-082-00	437-082			
T701	Heater	1-442-071-00	442-071			
T801	Horiz Output	1-439-249-00	1-439-249-11			

For SAFETY use only equivalent replacement part.

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
# T901	120V AC @ .16A AC	16.35V AC @ .65A DC	1-446-517-00			# For SAFETY use only equivalent replacement part. (1) Number on unit.
			1-446-517-11(1)			
	SEC. 2	SEC. 3				

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP901	3" PM 8 Ohms	1-502-873-00	30A0528	

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.

ELECTROLYTIC CAPACITORS (cont)

ITEM No.	RATING	MFGR. PART No.	MALLORY PART No.	REPLACEMENT DATA	
				SPRAGUE	PART No.
				Q-LINE	GENERAL LINE
C539	10 16V	1-123-316-00	VTT10B25	QV1-41	EV-1222
C540	22 16V	1-123-317-00	VTT22B16	QV1-55	EV-1224
C541	470 16V	1-123-323-00	VTT470K16	QV1-151	EV-1251
C542	22 16V	1-123-317-00	VTT22B16	QV1-55	EV-1224
C544	4.7 35V	1-123-340-00	VTT4R7B50	QV1-31	EV-1619.1
C545	100 16V	1-123-320-00	VTT100E16	QV1-95	EV-1231
C546	.47 50V	1-123-351-00	VTT47A63	QV1-3	EV-1610
C602	3300 35V	1-125-183-00	TT100X50		EV-1490
C801	47 100V	1-123-387-00			TVA-1343*
C802	100 50V	1-123-360-00	VTT100K50	QV1-99	EV-1530
C803	100 35V	1-123-345-00	VTT100K50	QV1-99	EV-1530
C804	1000 16V	1-123-324-00	VTT1000M16	QV1-183	EV-1261
C805	1000 16V	1-123-324-00	VTT1000M16	QV1-183	EV-1261
C806	33 16V	1-123-318-00	VTT33025	QV1-63	EV-1325
C807	10 50V	1-123-356-00	VTT10D63	QV1-45	EV-1622
C809	10 16V	1-123-316-00	VTT10B25	QV1-41	EV-1222
C810	2.2 50V	1-123-353-00	VTT2R2A50	QV1-21	EV-1617.1
C901	.47 50V	1-123-351-00	VTT47A63	QV1-3	EV-1610
C902	10 16V	1-123-316-00	VTT10B25	QV1-41	EV-1222
C903	1 50V	1-123-352-00	VTT1A50	QV1-11	EV-1615
C904	33 16V	1-123-318-00	VTT33025	QV1-63	EV-1325

* Axial replacement for radial device.

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	MALLORY PART No.	REPLACEMENT DATA	
				SPRAGUE PART No.	
				Q-LINE	GENERAL LINE
C201	100 50V		CN0310		10TCC-T10
C202	.0022 50V 10%		GP222	QCT2-46	10TS-D22
C203	.0047 50V		GP247		56A-D47
C204	.0022 50V 10%		GP222	QCT2-46	10TS-D22
C205	.0022 50V 10%		GP222	QCT2-46	10TS-D22
C206	.0022 50V 10%		GP222	QCT2-46	10TS-D22
C207	.0022 50V 10%		GP222	QCT2-46	10TS-D22
C208	.1 100V 10%		EWFA010	QF1-215	1PB-P10
C214	.0022 50V 10%		GP222	QCT2-46	10TS-D22
C215	3pF NPO 50V		CN0533		10TCC-V33
C216	3pF NPO 50V		CN0533		10TCC-V33
C217	33 50V		CN0433	QCC2-22	10TCC-Q33
C218	18 NPO 50V		CN0418		10TCC-Q18
C219	.0022 50V		GP222	QCT2-46	10TS-D22
C220	100 50V		CN0310		10TCC-T10
C221	82 NPO 50V 5%		CN0482		10TCC-Q82
C222	33 NPO 50V		CN0433	QCC2-22	10TCC-Q33
C223	68 NPO 50V		CN0468		10TCC-Q68
C225	.047 50V 20%		EWFA1A147	QF1-171	1PB-S47
C226	15 50V		CN0415		10TCC-Q15
C227	.001 50V		GP210	QCT2-41	10TS-D10
C229	.01 50V 10%		EWFA110	QF1-91	1PB-S10
C231	.015 50V		M192P1539R8		192P1539R8
C236	.001 100V		GP210	QCT2-41	10TS-D10
C240	.001 50V		GP210	QCT2-41	10TS-D10
C242	.047 50V		EWFA1A147	QF1-171	1PB-S47
C243	100 50V		CN0310		10TCC-T10
C245	470 50V		GP347	QCT2-35	10TS-T47
C302	33 50V		CN0433	QCC2-22	10TCC-Q33
C303	68 50V		CN0468		10TCC-Q68
C305	10pF 50V		CN0410	QCC2-15	10TCC-Q10
C308	.1 100V 10%		EWFA010	QF1-215	1PB-P10
C311	33 50V		CN0433	QCC2-22	10TCC-Q33
C312	390 50V 5%		GP339	QCT2-34	10TS-T39
C313	22 50V		CN0422		10TCC-Q22
C314	10pF 50V		CN0410	QCC2-15	10TCC-Q10
C315	68 50V		CN0468		10TCC-Q68
C318	.0012 50V		GP212		10TS-D12
C319	150 50V 5%		CN0315		10TCC-T15
C321	150 50V 5%		CN0315		10TCC-T15
C323	390 50V		GP339	QCT2-34	10TS-T39
C324	390 50V		GP339	QCT2-34	10TS-T39
C325	390 50V		GP339	QCT2-34	10TS-T39
C327	150 50V		CN0315		10TCC-T15
C328	15 50V		CN0415		10TCC-Q15
C329	27 50V		CN0427		10TCC-Q27
C330	15 50V		CN0415		10TCC-Q15
C331	33 NPO 50V		CN0433	QCC2-22	10TCC-Q33
C333	180 50V		GP318	QCT2-27	10TS-T18
CV301	Trimmer 30pF	1-141-212-00			
C504	.0056 100V		EWFA256		1PB-D56
C506	.0047 50V		EWFA247	QF1-57	1PB-Q47
C507	.001 50V		GP210	QCT2-41	10TS-D10
C508	.001 50V		GP210	QCT2-41	10TS-D10

SONY MODEL KV-5200
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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 (cont)

ITEM No.	RATING	MFG. PART No.	REPLACEMENT DATA		
			MALLORY PART No.	SPRAGUE PART No.	
				Q-LINE	GENERAL LINE
C509	.0047 50V		EMF1A247	QF1-57	1PB-D47
C510	.001 50V		GP210	QCT2-41	10TS-010
C512	.001 50V		GP210	QCT2-41	10TS-010
C514	100 50V		CN0310		10TCC-110
C517	.0047 100V		M192P4729R8		192P4729R8
C518	.047 100V		EMF1A147	QF1-171	1PB-S47
C520	.039 100V		PVC6139		6PS-S39
	.33 100V		EMF1A033	QF1-273	1PB-S33
C521	.033 50V		M192P3339R8		192P3339R8
C522	.1 50V		EMF05010		431P1049R5
C524	.001 50V		GP210	QCT2-41	10TS-010
C525	330 1.5KV	1-102-327-00 1-130-458-00			
C526	.024 1KV				
C528	1 100V 10%		EMF1A10	QF1-305	1PB-M10
C535	.033 100V 10%		EMF6133		6PS-S33
C536	.047 100V		EMF1A147	QF1-171	1PB-S47
C543	.0047 100V		EMF1A247	QF1-57	1PB-D47
C547	.0047 100V		M192P4729R8		192P4729R8
C548	.0022 50V		M192P2229R8		192P2229R8
C549	10 50V		CN0410	QCC2-15	10TCC-Q10
C550	330 50V	1-102-125-00	GP333	QCT2-33	10TS-T33
C551	.0047 100V		EMF1A247	QF1-57	1PB-D47
C552	.0022 50V		GP222	QC2-97	5GA-D22
C553	.0022 50V		GP222	QC2-97	5GA-D22
C554	.0022 100V		GP222	QC2-97	5GA-D22
C556	.0022 50V		GP222	QC2-97	5GA-D22
C557	.0022 50V		GP222	QC2-97	5GA-D22
C558	.0022 50V		GP222	QC2-97	5GA-D22
C601	.01 500V		GP110	QC1-149	5GA-S10
C603	.0047 50V		M192P4729R8		192P4729R8
C604	.0047 50V		M192P4729R8		192P4729R8
C701	.01 500V		GP110	QC1-149	5GA-S10
C702	470 3KV	1-161-753-00			
C703	680 1KV	1-102-219-00			
C808	1uF 250V	1-130-352-00			
C811	330 500V	1-102-030-00			
C812	330 500V	1-102-030-00			

For SAFETY use only equivalent replacement part.

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.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		MFG. PART No.	WORKMAN PART No.			MFG. PART No.	WORKMAN PART No.
R051	2700 5% 2W Carbon Film Flameproof	1-246-674-00	22-3106	# R601	3.3M 5% 1/4W Carbon	1-202-657-00	
R205	1000 5% 1/8W Carbon Film Flameproof	1-246-473-00	22-1096	R710	18K 5% 1W Metal Oxide Flameproof	1-213-158-00	22-3126
R226	47 5% 1/8W Carbon Film Flameproof	1-211-933-00	22-1064	R711	18K 5% 1W Metal Oxide Flameproof	1-213-158-00	22-3126
R234	120 5% 1/8W Carbon Film Flameproof	1-210-357-00	22-1074	R712	18K 5% 1W Metal Oxide Flameproof	1-213-158-00	22-3126
R333	22 5% 1/8W Carbon Film Flameproof	1-211-417-00	22-1056	R902	47 5% 1/8W Carbon Film Flameproof	1-211-933-00	22-1064
R512	1800 5% 1W Metal Oxide Flameproof	1-213-146-00	22-3102	R903	1.2 5% 1W Metal Oxide Flameproof	1-212-361-00	
R532	10 5% 1/8W Carbon Film Flameproof	1-211-409-00	22-1048	R909	100 5% 2W Metal Oxide Flameproof	1-206-640-00	22-4072
R553	3900 5% 1/4W Metal Oxide Flameproof	1-214-146-00		R915	1800 5% 1/4W Carbon Film Flameproof	1-212-550-00	22-1102
R561	3.3 5% 1W Metal Oxide Flameproof	1-212-366-00		R922	47 5% 1/4W Carbon Film Flameproof	1-246-441-00	22-1064
R565	1000 5% 1W Metal Oxide Flameproof	1-214-132-00	22-3096	# R2201	10K 5% 1/4W Carbon Film	1-246-497-00	22-1120
R566	4700 5% 1/4W Carbon Film		22-1112	# R2202	680 5% 1/4W Carbon Film	1-246-469-00	22-1092
R567	470K 5% 1/4W Carbon Film		22-1160	TH901	1.3K Cold PTC	1-800-626-00	

For SAFETY use only equivalent replacement part.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L201	RF Choke (12uH)	1-407-158-XX		70F125AI	
L202	Peaking Coil (47uH)	1-407-165-XX		74F475AI	
L203	RF Choke (8.2uH)	1-407-189-XX		70F826AI	
L205	Peaking Coil (100uH)	1-407-169-XX		4632	
L301	RF Choke (18uH)	1-407-696-00			
L302	Peaking Coil (33uH)	1-407-163-XX			
L303	Peaking Coil (5.6uH)	1-408-310-00			
L304	Peaking Coil (56uH)	1-407-166-XX		72F565AP	
L305	RF Choke (27uH)	1-407-162-XX		74F275AI	
L306	Peaking Coil (82uH)	1-407-168-XX			
L307	Peaking Coil (270uH)	1-407-174-XX		72F274AP	
L308	RF Choke (27uH)	1-407-162-XX		74F275AI	
L309	Peaking Coil (56uH)	1-407-166-XX		72F565AP	
L501	RF Choke (3.3uH)	1-407-780-00			
L502	Peaking Coil (400uH)	1-421-378-00	1-421-378-11		
L503	RF Choke (3.3uH)	1-407-364-00		5218	
L504	RF Choke (3.3uH)	1-407-780-00			
L505	Oscillator	1-405-760-00			
L506	RF Choke (1mH)	1-407-195-XX			
L507	Peaking Coil (47uH)	1-459-155-00	459-155-11	73F103AF	
L508	RF Choke (.7uH)	1-407-365-00		9330-02	
L801	Peaking Coil (270uH)	1-407-174-XX		72F274AP	
L802	Peaking Coil (270uH)	1-407-174-XX		72F274AP	
L803	Peaking Coil (180uH)	1-407-172-XX		73F184AF	
L804	Peaking Coil (2.5mH)	1-459-109-00			
T201	Video IF (45MHz)	1-404-228-11			
T202	Video IF (45MHz)	1-404-229-00	404-229-11		
T203	Video IF	1-404-181-00	404-181-11		
T204	Video IF	1-404-182-00	404-182-11		
T205	AFT	1-404-181-00	404-181-11		
T206	Sound IF	1-403-367-00	403-367-12		
T207	Sound IF	1-403-871-00	403-871-11		
SF201	Sound Trap	1-404-227-00			

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA		
			MFG. PART No.	MALLORY PART No.	TRW PART No.
RV110	Vert (D)	47K	1-224-254-XX	RVA0911H503	U260R503B
RV111	Vert (U)	47K	1-224-254-XX	RVA0911H503	U260R503B
RV112	Bar	47K	1-224-254-XX	RVA0911H503	U260R503B
RV113	Horiz (D)	470K	1-224-255-XX	RVA0911H104	U260R104B
RV114	Horiz Size Adj	47K	1-224-254-XX	RVA0911H503	U260R503B
RV201	RF AGC	4700	1-224-251-XX	RVA0911H502	U260R502B
RV301	Picture	10K	1-226-078-00		
		Detent @ 50%			
RV302	Hue	10K	1-226-075-00		
RV303	Color	10K	1-226-075-00		
RV304	Brightness	500	1-226-408-00		
		Detent @ 50%			
RV305	Sub Brightness	4700	1-224-251-XX	RVA0911H502	U260R502B
RV306	Sub Contrast	4700	1-224-251-XX	RVA0911H502	U260R502B
RV307	Color Level (ACC)	470K	1-224-134-XX	RVA0911H504	U260R504B
RV308	Red Background	4700	1-224-251-XX	RVA0911H502	U260R502B
RV309	Green Background	4700	1-224-251-XX	RVA0911H502	U260R502B
RV310	Blue Background	4700	1-224-251-XX	RVA0911H502	U260R502B
RV311	Green Drive	330	1-221-986-00	RVA0911H501	U260R501B
RV312	Blue Drive	330	1-221-986-00	RVA0911H501	U260R501B
RV501	+28V Adjust	1000	1-224-249-XX	RVA0911H102	U260R102B
RV502	Regulator Limit Adjust	1000	1-224-249-XX	RVA0911H102	U260R102B
RV503	Battery Stop Adj	4700	1-224-251-XX	RVA0911H502	U260R502B
RV504	Vertical Hold	20K	1-226-637-00		
RV505	Vertical Height	10K	1-224-252-XX	RVA0911H103	U260R103B
RV506	Vertical Linearity	470	1-224-248-XX	RVA0911H501	U260R501B
RV701	Screen	7.5Meg	1-226-659-21		
RV901	Charge	470	1-224-248-XX		
RV2201	Volume	50K			

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SONY MODEL KV-5200
(Ch. SCC-239A-A)

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