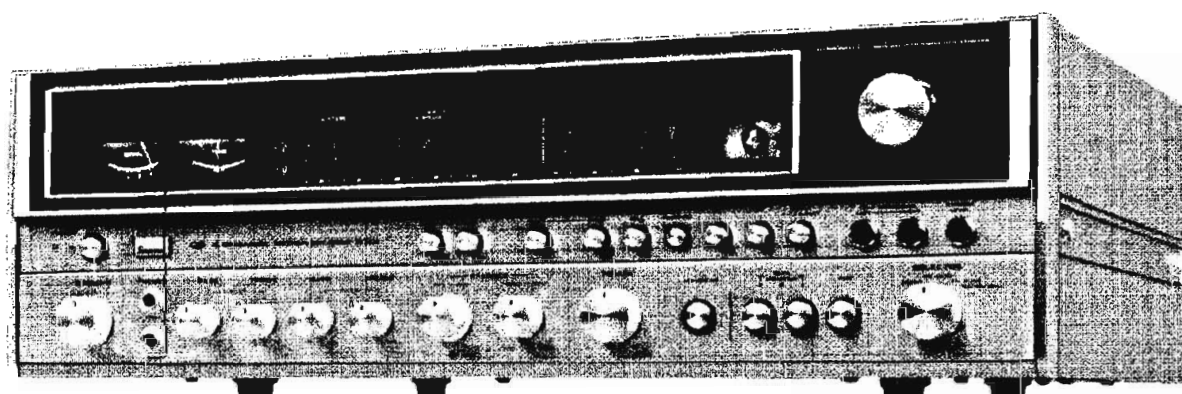


# SERVICE MANUAL

## 4-CHANNEL RECEIVER **SANSUI QRX-7001**



*Sansui*

SANSUI ELECTRIC CO., LTD.

This service manual is designed for service engineers to repair, adjust, maintain and order the replacement parts of the QRX-7001 correctly. When ordering the parts, use the stock number and parts name specifically referring to the Parts Locations & Parts Lists. For general usage and maintenance of the unit, please refer to the Operating Instructions attached with the unit.

## TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>	<u>Section</u>	<u>Title</u>	<u>Page</u>
<b>1. SPECIFICATIONS</b>		<b>2</b>	6-5. F-2431 Power Supply Circuit Board for Tuner Section		<b>17</b>
<b>2. BLOCK DIAGRAM</b>		<b>3, 4</b>	6-6. F-2436A Driver Circuit Board		<b>18</b>
<b>3. ALIGNMENTS AND ADJUSTMENTS</b>		<b>5</b>	6-7. F-2090 CD-4 Sub Channel Circuit Board		<b>19, 20</b>
3-1. Driver Circuit Board Adjustment		<b>5, 6</b>	6-8. F-2086 CD-4 Main Circuit Board		<b>21</b>
3-2. FM IF Alignment		<b>6</b>	6-9. F-2087 QS Matrix Circuit Board		<b>21</b>
3-3. FM Dial Calibration and RF Alignment		<b>7</b>	6-10. F-2088 QS Phase Control Circuit Board		<b>22</b>
3-4. FM Signal Meter, Mono Distortion and Muting Adjustment		<b>7, 8</b>	6-11. F-1461A Protector Circuit Board		<b>22</b>
3-5. MPX Alignment		<b>8</b>	6-12. F-2427 Power Circuit Board		<b>23</b>
3-6. AM IF, Dial Calibration, RF and Signal Meter Alignment		<b>9, 10</b>	6-13. F-2428 Filter & Power Supply Circuit Board		<b>23</b>
<b>4. THREADING OF DIAL CORD</b>		<b>11</b>	6-14. F-2423 Filter & Switch Circuit Board		<b>23</b>
<b>5. TROUBLESHOOTING CHART</b>		<b>12</b>	6-15. Interchangeability of Transistor and Diode		<b>24</b>
5-1. Troubleshooting on Power Supply Section		<b>12</b>	6-16. Other Parts (Top Side)		<b>24</b>
5-2. Troubleshooting on Main Circuit Section		<b>12</b>	6-17. Other Parts (Bottom Side)		<b>24</b>
5-3. Troubleshooting on Tone Control Circuit Section		<b>12</b>	6-18. Other Parts (Front Side) Section 1		<b>25</b>
5-4. Troubleshooting on Phono Circuit Section		<b>12</b>	6-19. Other Parts (Front Side) Section 2		<b>26</b>
5-5. Troubleshooting on Tuner Circuit Section		<b>13</b>	<b>7. SCHEMATIC DIAGRAM OF TUNER SECTION</b>		<b>27</b>
<b>6. PARTS LOCATION AND PARTS LIST</b>		<b>14</b>	<b>8. SCHEMATIC DIAGRAM OF AUDIO SECTION</b>		<b>28</b>
6-1. F-1519C FM Frontend Pack		<b>14</b>	<b>9. SCHEMATIC DIAGRAM OF 4-CH SECTION</b>		<b>29</b>
6-2. F-1507C Tuner Circuit Board		<b>15, 16</b>	<b>10. SCHEMATIC DIAGRAM OF POWER SUPPLY SECTION</b>		<b>30</b>
6-3. F-2458 Equalizer Circuit Board		<b>17</b>	<b>11. PACKING LIST</b>		<b>back cover</b>
6-4. F-2425 Tone Control Circuit Board		<b>17</b>	<b>12. ACCESSORY PARTS LIST</b>		<b>back cover</b>

# 1. SPECIFICATIONS

## AUDIO SECTION

<b>CONTINUOUS RMS POWER OUTPUT</b>	
.....	35W per channel x 4 (four channels driven)
<b>LOAD IMPEDANCE</b> .....	8 $\Omega$
<b>POWER BAND</b> .....	20 to 20,000Hz
<b>TOTAL HARMONIC DISTORTION</b>	
.....	less than 0.4% (from AUX)
<b>Music power(IHF)</b> .....	280W (4 $\Omega$ 1,000Hz) 220W (8 $\Omega$ 1,000Hz)
<b>Continuous rms power output</b> .....	45W x 4 (8 $\Omega$ 1,000Hz) 45W x 2 (two channels driven, 8 $\Omega$ 1,000Hz)
<b>INTERMODULATION DISTORTION</b> (at rated power output 70Hz:7,000Hz=4:1 SMPTE method)	
.....	less than 0.4% (from AUX)
<b>FREQUENCY RESPONSE</b> (at 1 Watt output)	
.....	15 to 30,000Hz $\pm$ 1dB
<b>EQUALIZATION</b> .....(RIAA curve)	
.....	30 to 15,000Hz $\pm$ 1dB
<b>DAMPING FACTOR</b> .....	10 (8 $\Omega$ )
<b>INPUT SENSITIVITY AND IMPEDANCE</b> (1,000Hz, for rated output)	
<b>2-CHANNEL PHONO</b> .....	2.5mV 50K $\Omega$ (max. input capability; more than 150mV at 0.5% distortion)
<b>4-CH./2-CH. AUX</b> .....	100mV 50K $\Omega$
<b>4-CH./2-CH. TAPE-1</b>	
<b>PLAY Pin Jacks</b> .....	100mV 50K $\Omega$
<b>REC/PLAY DIN Socket</b> ..	100mV 50K $\Omega$
<b>4-CH./2-CH. TAPE-2</b>	
<b>PLAY Pin Jacks</b> .....	100mV 50K $\Omega$
<b>RECORDING OUTPUT</b>	
<b>4-CH./2-CH. TAPE-1</b>	
<b>REC Pin Jacks</b> .....	100mV
<b>REC/PLAY DIN Socket</b> ..	30mV
<b>4-CH./2-CH. TAPE-2</b>	
<b>REC Pin Jacks</b> .....	100mV
<b>CHANNEL SEPARATION</b> (at 1,000Hz)	
<b>2-CH. PHONO</b> .....	better than 50dB
<b>4-CH./2-CH. AUX</b> .....	better than 50dB
<b>HUM AND NOISE</b> (IHF)	
<b>2-CH. PHONO</b> .....	better than 70dB
<b>4-CH./2-CH. AUX</b> .....	better than 80dB
<b>SWITCHES AND CONTROLS</b>	
<b>BASS</b> .....	+10dB, -10dB, at 50Hz
<b>TREBLE</b> .....	+10dB, -10dB, at 10,000Hz
<b>LOUDNESS</b> .....	+8dB at 50Hz +3dB at 10,000Hz
<b>FILTERS</b>	
<b>LOW</b> (front & back) .....	-10dB at 50Hz (6dB/oct.)
<b>HIGH</b> (front & back) .....	-10dB at 10,000Hz (6dB/oct.)
<b>QS SYNTHESIZER/DECODER</b>	
.....	QS regular matrix system with QS Vario-Matrix circuit
<b>CD-4 DEMODULATOR</b>	
<b>Input Sensitivity</b> .....	2.5mV (1 to 10mV adjustable)

<b>Input Impedance</b> .....	50K $\Omega$
<b>Separation</b> (standard test signal at 1,000Hz)	
<b>Left to Right</b> .....	40dB
<b>Front to Back</b> .....	25dB
<b>Frequency Response</b> (standard test signal at REC output)	
.....	30 to 15,000Hz (main-channel)

## TUNER SECTION

<FM>	
<b>TUNING RANGE</b> .....	88 to 108MHz
<b>SENSITIVITY</b> (IHF) .....	1.9 $\mu$ V (max. input capability: more than 120dB)
<b>TOTAL HARMONIC DISTORTION</b>	
<b>MONO</b> .....	less than 0.3%
<b>STEREO</b> .....	less than 0.5%
<b>SIGNAL TO NOISE RATIO</b> (mono)	
.....	better than 70dB
<b>SELECTIVITY</b> .....	better than 70dB
<b>CAPTURE RATIO</b> (IHF) .....	less than 1.5dB
<b>IMAGE REJECTION</b> .....	better than 75dB
<b>IF REJECTION</b> .....	better than 90dB
<b>SPURIOUS RESPONSE</b> .....	better than 80dB
<b>STEREO SEPARATION</b> (at 1,000Hz)	
.....	better than 40dB
<b>FREQUENCY RESPONSE</b> .....	30 to 15,000Hz $^{+0.5}_{-3.0}$ dB
<b>FM DE-EMPHASIS</b> .....	50 $\mu$ S, 75 $\mu$ S
<b>ANTENNA INPUT IMPEDANCE</b>	
.....	300 $\Omega$ Balanced, 75 $\Omega$ Unbalanced

## <AM>

<b>TUNING RANGE</b> .....	535 to 1,605KHz
<b>SENSITIVITY</b> (bar antenna) ..	53dB/m
<b>SELECTIVITY</b> .....	better than 30dB
<b>IMAGE REJECTION</b> .....	better than 80dB/m
<b>IF REJECTION</b> .....	better than 80dB/m

## OTHERS

### SEMICONDUCTORS

<b>Transistors</b> .....	107
<b>FETs</b> .....	9
<b>Diodes</b> .....	56
<b>Zener Diodes</b> .....	8
<b>ICs</b> .....	9

### POWER REQUIREMENTS

<b>Voltage</b> .....	100, 117, 220, 240V 50/60Hz
<b>Consumption</b> .....	220W (rated)

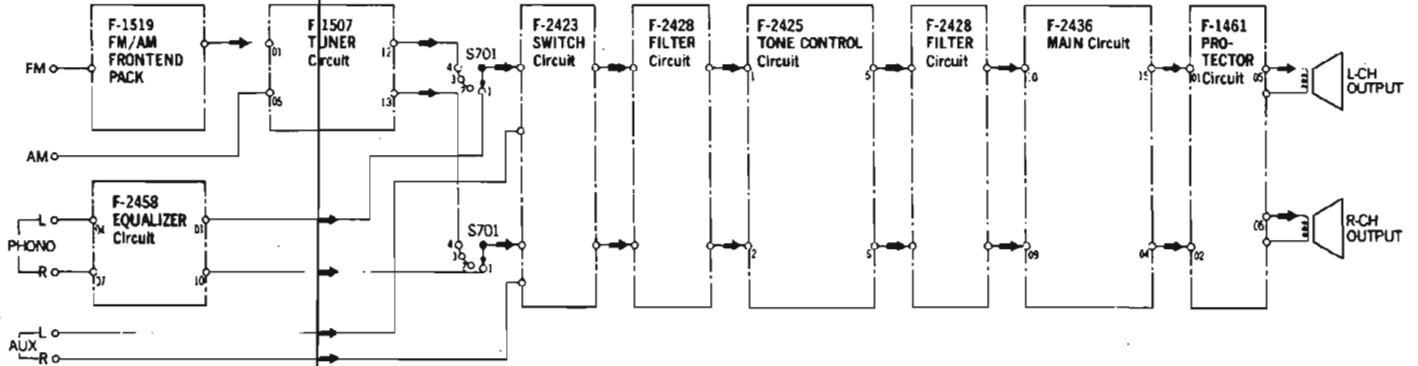
<b>DIMENSIONS</b> .....	540mm (21 $\frac{5}{16}$ " W. 161mm (6 $\frac{3}{8}$ " H 403mm (15 $\frac{7}{8}$ " D
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<b>WEIGHT</b> .....	23.8 Kg (52.5 lbs) net, 26.5 Kg (58.4 lbs) packed
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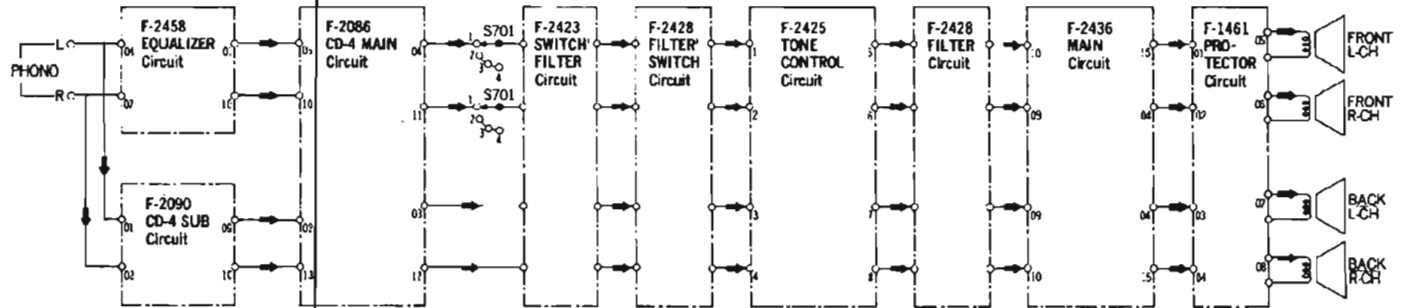
\* Design and specifications subject to change without notice for improvements.

## 2. BLOCK DIAGRAM

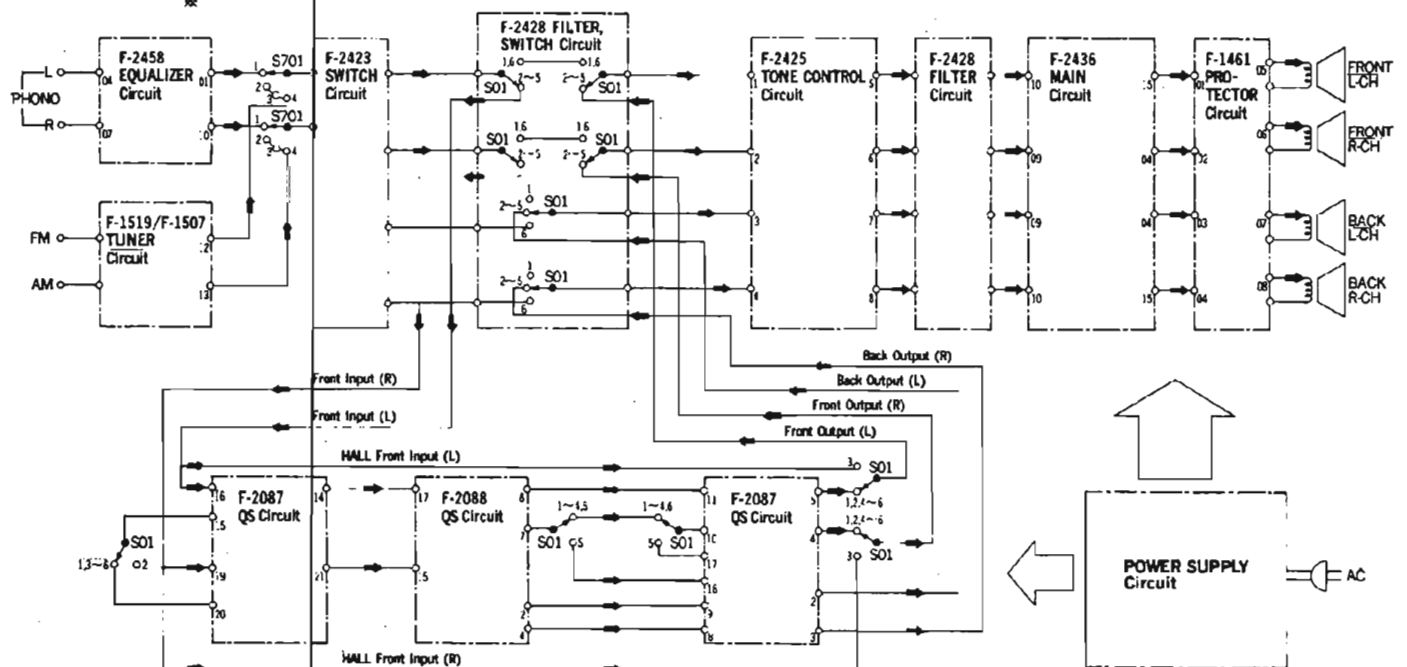
2-CH DIRECT OPERATIVE BLOCK DIAGRAM



CD/4-CH DIRECT OPERATIVE BLOCK DIAGRAM



SYNTHESIZER, QS, SQ, OPERATIVE BLOCK DIAGRAM



S701: SELECTOR

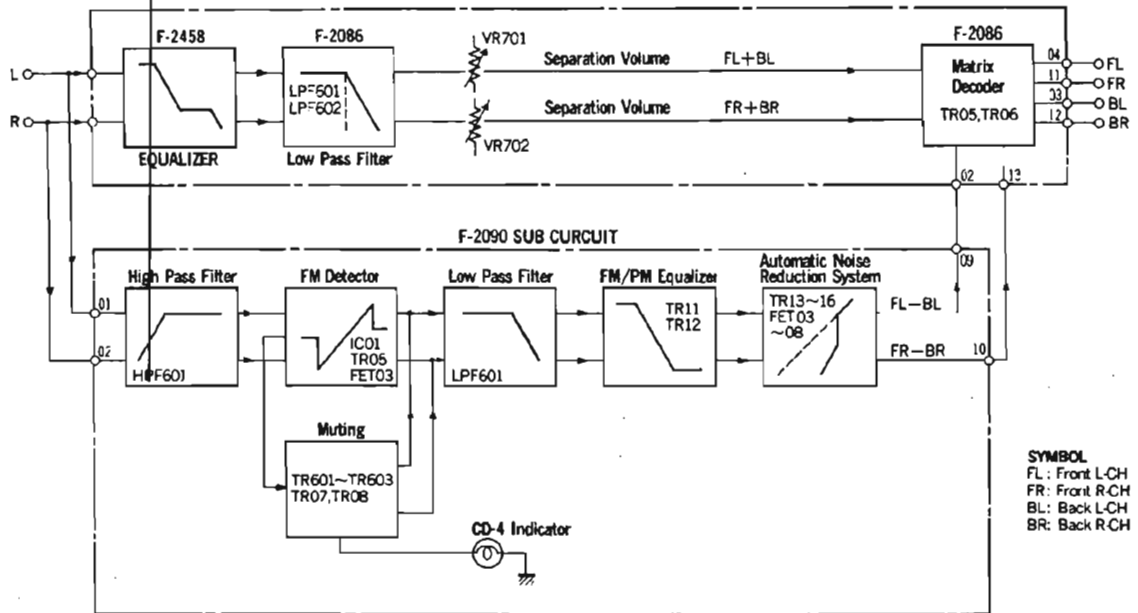
1. PHONO
2. FM AUTO
3. FM MONO (FM MUT. OFF)
4. AM

S01: FUNCTION

1. 2-CH
2. SYNTHESIZER SURROUND
3. SYNTHESIZER HALL
4. QS
5. SQ
6. CD-4/DIRECT

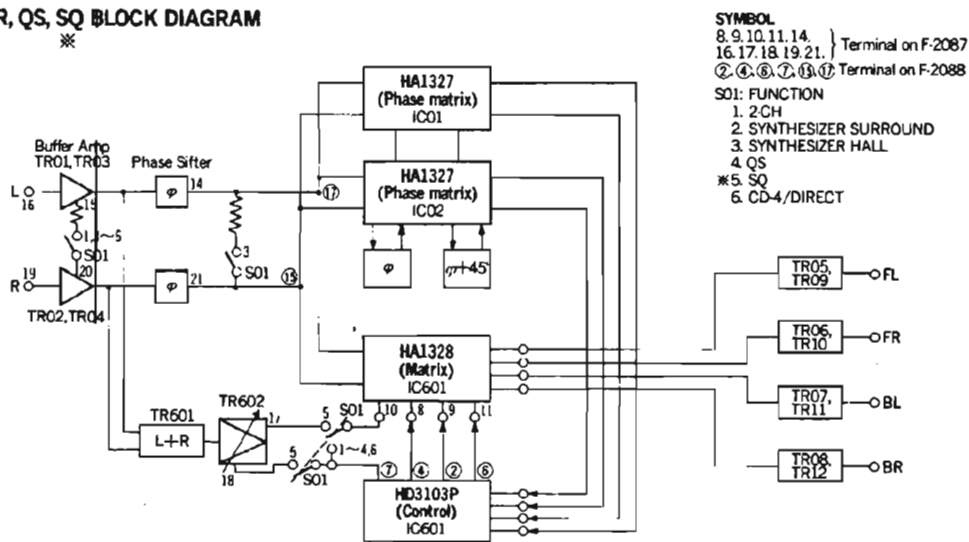
※SQ is a trade mark of CBS, INC.®

### CD-4/4-CH DIRECT BLOCK DIAGRAM



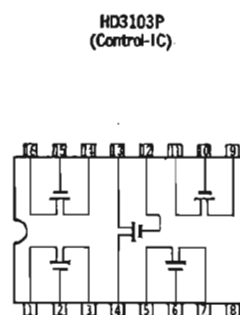
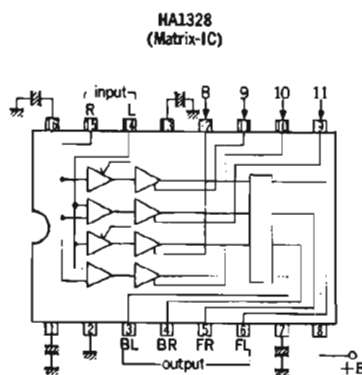
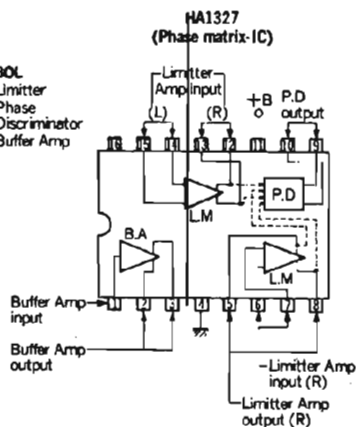
**SYMBOL**  
 FL: Front L-CH  
 FR: Front R-CH  
 BL: Back L-CH  
 BR: Back R-CH

### SYNTHESIZER, QS, SQ BLOCK DIAGRAM



**SYMBOL**  
 8, 9, 10, 11, 14 } Terminal on F-2087  
 16, 17, 18, 19, 21 }  
 ②, ④, ⑥, ⑦, ⑩, ⑪ } Terminal on F-2088  
**S01: FUNCTION**  
 1. 2CH  
 2. SYNTHESIZER SURROUND  
 3. SYNTHESIZER HALL  
 4. QS  
 \*5. SQ  
 6. CD-4/DIRECT

**SYMBOL**  
 L.M: Limiter  
 P.D: Phase Discriminator  
 B.A: Buffer Amp



### 3. ALIGNMENTS AND ADJUSTMENTS

#### Abbreviation

##### Equipment

AM FM Generator Oscilloscope ..... Genescope  
 AM Standard Signal Generator ..... AM SSG  
 FM Standard Signal Generator ..... FM SSG  
 FM Stereo Generator ..... Stereo SG  
 Oscilloscope ..... Scope  
 Audio Oscillator ..... Audio Osc.  
 Distortion Meter ..... Dist. Meter

##### Others

Clockwise ..... CW.  
 Counterclockwise ..... CCW.  
 Antenna ..... ANT.  
 Modulation ..... MOD.

#### 3-1. Driver Circuit Board Adjustment (See Figs. 3-1 and 3-2)

- Note: 1. Master Volume ..... Minimum  
 2. Speaker Selector ..... SYSTEM (A)  
 3. Make the SP terminals free (no load).  
 4. Confirm the AC power Supply voltage.  
 5. After adjustment, run the unit for more than 5 minutes, then check and readjust necessary.  
 6. Room temperature should be 18~28° (65~83°F) for bias current adjustment.

STEP	SUBJECT	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1	DC 0V Front L-CH	DC volt meter	Speaker terminal Front L-CH Fig. 3-1	F-2436 VR02 Fig. 3-2	0V ± 10mV	◦Step down meter's range accordingly ◦Change lead's polarity if meter swings backward
2	DC 0V Front R-CH	DC volt meter	Speaker terminal Front R-CH Fig. 3-1	F-2436 VR01 Fig. 3-2	0V ± 10mV	Same as above
3	DC 0V Rear L-CH	DC volt meter	Speaker terminal Rear L-CH Fig. 3-1	F-2436 VR01 Fig. 3-2	0V ± 10mV	Same as above
4	DC 0V Rear R-CH	DC volt meter	Speaker terminal Rear R-CH Fig. 3-1	F-2436 VR02 Fig. 3-2	0V ± 10mV	Same as above
5	Bias current Front L-CH	DC milliammeter	F-2427 F01 Fig. 3-2	F-2436 VR04 Fig. 3-2	30 ± 3mA	Same as above
6	Bias current Front R-CH	DC milliammeter	F-2427 F02 Fig. 3-2	F-2436 VR03 Fig. 3-2	30 ± 3mA	Same as above
7	Bias current Rear L-CH	DC milliammeter	F-2427 F05 Fig. 3-2	F-2436 VR03 Fig. 3-2	30 ± 3mA	Same as above
8	Bias current Rear R-CH	DC milliammeter	F-2427 F06 Fig. 3-2	F-2436 VR03 Fig. 3-2	30 ± 3mA	Same as above

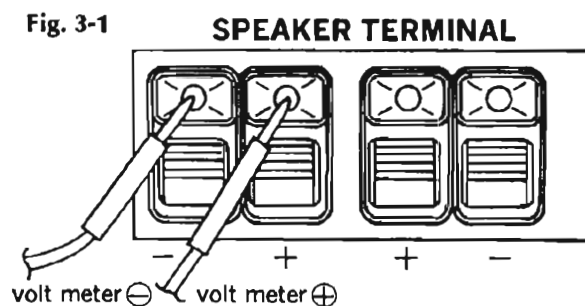
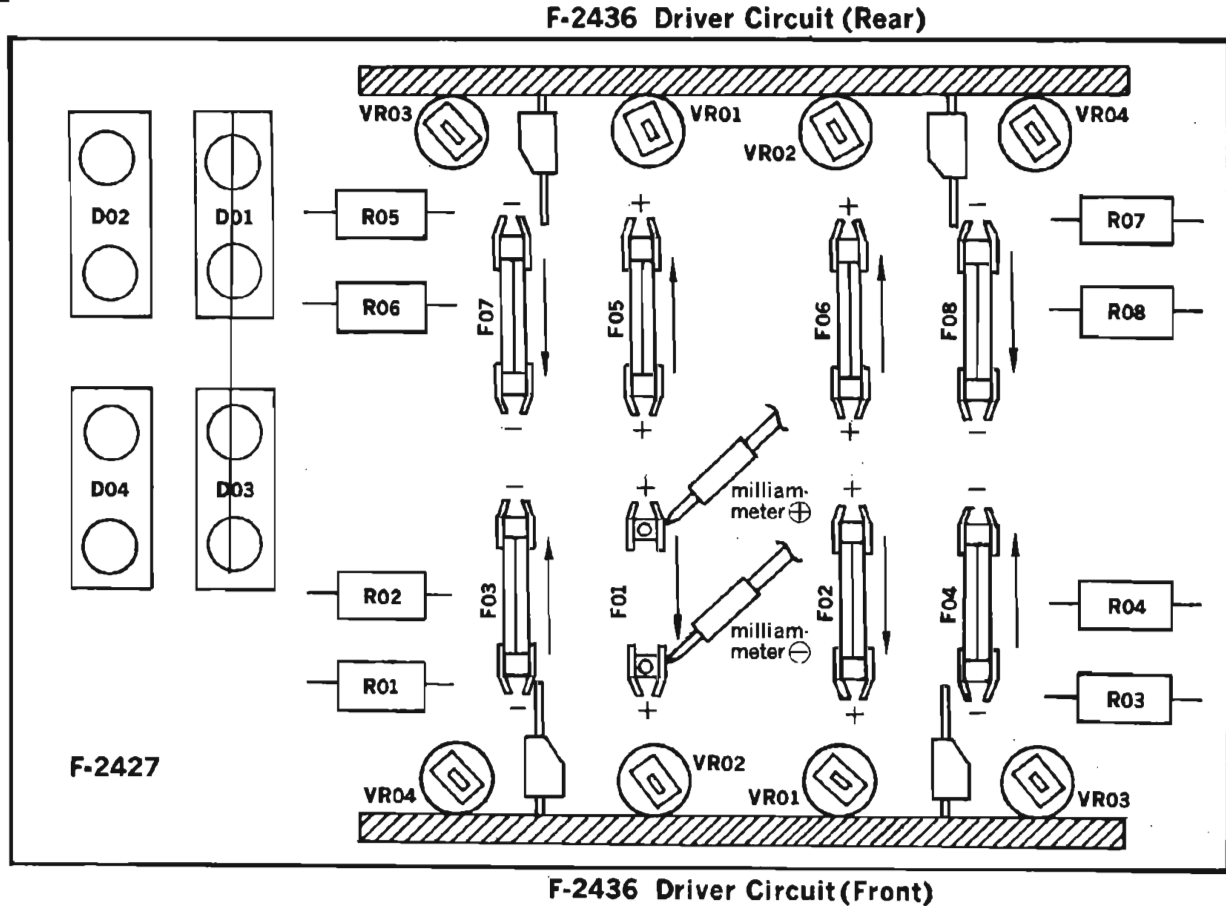


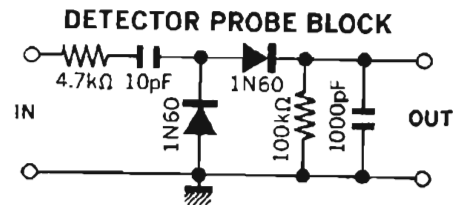
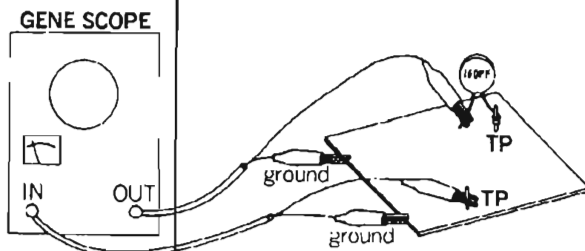
Fig. 3-2



### 3-2. FM IF Alignment (See Figs. 3-6, 3-7 and 3-9 on page 10)

- Note:
1. Selector.....FM MONO
  2. Master Volume .....Minimum
  3. Output level of genescope .....After attenuator
  4. Sweepwidth.....1.5~2cm/150kHz
  5. Frequency band .....9.5~11.5MHz

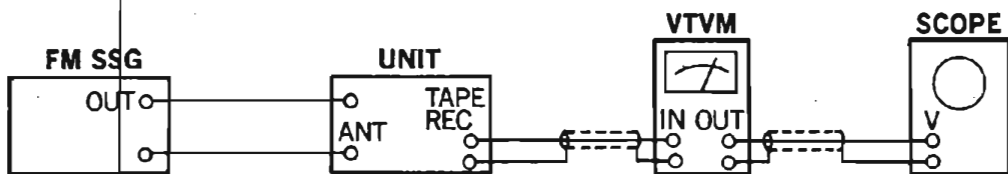
6. Connection .....Connect the output of genescope to TP.01 through 100pF ceramic capacitor.



STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1	IF coil	Output 65dB Genescope	F-1519 TP01 Fig. 3-8	F-1507 TP01 Use Detector Probe	F-1519 L05	Max. IF waveform 1 as Fig. 3-6	
2	Discriminator coil	Output 70dB Genescope	Same as above	F-1507 TP.03 Direct from Genescope	F-1507 T01 T02	Max. linearity of S curve Set the center of S curve to of waveform 3 as Fig. 3-6	

### 3-3. FM Dial Calibration and RF Alignment (See Fig. 3-8 on page 10)

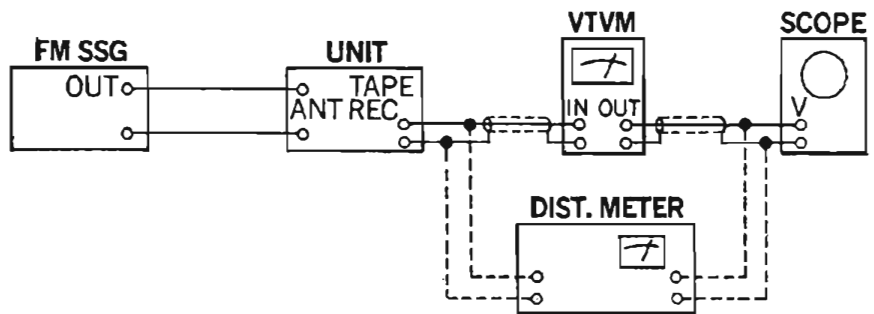
- Note:** 1. Selector .....FM MONO  
 2. Master Volume.....Minimum  
 3. Confirm start point of dial pointer before alignment.



STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1	90MHz Dial Calibration	90MHz ANT input 60dB 400Hz (100% MOD) FM SSG	ANT terminal 300Ω	REC OUT L or R-ch VTVM & Scope	F-1519 L06	Max. output	◦Set Dial on 90MHz
2	106MHz Dial Calibration	106MHz ANT input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	F-1519 TC04	Same as above	◦Set Dial on 106MHz
3	Confirm 90MHz Dial Calibration	Same as Step 1	Same as above	Same as above		Confirm 90MHz Dial Calibration	◦If not, repeat from Step 1
4	Confirm 106MHz Dial Calibration	Same as Step 2	Same as above	Same as above		Confirm 106MHz Dial Calibration	◦If not, repeat from Step 2
5	90MHz RF Adj.	90MHz ANT input 50dB 100Hz (100% MOD) FM SSG	Same as above	Same as above	F-1519 L01, L02, L03	Max. output	◦Tune FM SSG (Max. Signal Meter)
6	106MHz RF Adj.	106MHz ANT input 50dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	F-1519 Trimmer TC01, TC02 TC03	Same as above	Same as above

### 3-4. FM Signal Meter, Mono Distortion and Muting Adjustment (See Fig. 3-7 on page 10)

- Note:** 1. Selector .....FM MONO  
 2. Master Volume.....Minimum

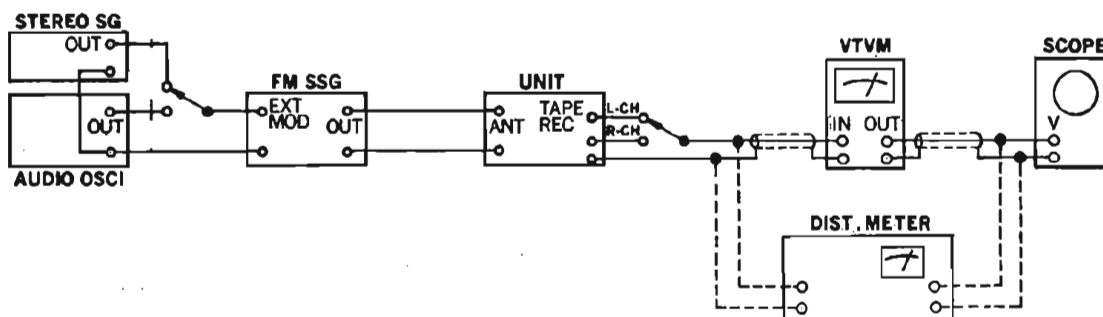




STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1	Signal Meter	98MHz ANT input 60dB 400Hz (100% MOD) FM SSG	ANT terminal 300Ω	Signal Meter	VR02	4.3 on meter	<ul style="list-style-type: none"> <li>◦Tune FM SSG (Max. indication of Signal Meter)</li> <li>◦Before adjustment, if meter swings out or not enough, preadjust VR02 until the reasonable point</li> </ul>
2	Distortion	Same as above	Same as above	REC OUT L or R-ch Dist. meter & Scope	T02	Min. distortion	◦Tune FM SSG (Max. indication of signal meter)
3	Tune Meter	Same as above	Same as above	TUNE Meter	VR01	Center on Tune Meter	◦Tune the Tune Meter to Center even FM inter-station noise
4	Muting Level	98MHz ANT input 32dB 400Hz (100% MOD) FM SSG	Same as above	REC OUT L or R-ch VTVM & Scope	VR04	Audio signal just muted	

### 3-5. MPX Alignment (See Fig. 3-7 on page 10)

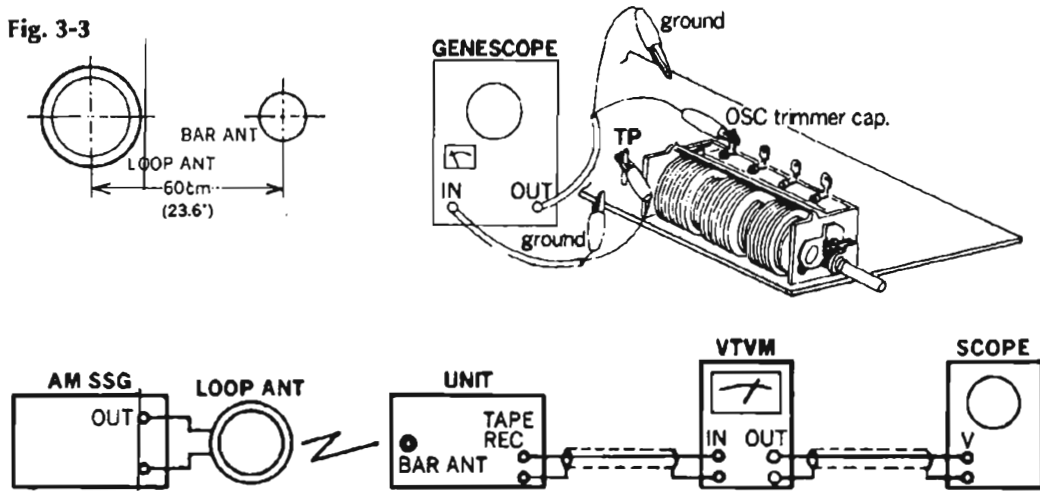
Note: 1. Selector ..... FM AUTO  
2. Master Volume ..... Minimum



STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1	19kHz coil	98MHz ANT input 60dB FM SSG Pilot 19kHz (10% MOD) L-ch 1kHz (45% MOD) R-ch (0% MOD) Stereo SG	ANT terminal 300Ω	REC OUT L-ch VTVM & Scope	L05	Max. output	◦Tune FM SSG (Max. indication of signal meter)
2	Separation	Same as above	Same as above	REC OUT R-ch VTVM & Scope	VR03	Min. output	
3	Confirm Distortion	Same as above	Same as above	REC OUT L-ch Dist. meter & Scope			◦If over than 0.5% slightly adjust L05
4	Confirm Separation	98MHz ANT input 60dB FM SSG Pilot 19kHz (10% MOD) L-ch (0% MOD) R-ch 1kHz (45% MOD) Stereo SSG	Same as above	REC OUT L-ch VTVM & Scope			◦If less than 40dB adjust VR03

### 3-6. AM IF, Dial Calibration, RF and Signal Meter Alignment (See Figs. 3-4, 3-5, 3-7 and 3-8 on page 10)

- Note:
1. Selector.....AM
  2. Master Volume .....Minimum
  3. Confirm start point of dial pointer before alignment.
  4. The loop antenna is required to obtain complete adjustment for AM RF circuit. In this case, as the electro-magnetic field is attenuated by the distance between the loop antenna and BAR ANT, increase more 26dB by attenuator of AM SSG than each ANT input level show in the following steps. (See Fig. 3-3)
  5. After adjustment of signal meter, confirm the meter's swing on FM. (If meter swang out or not enough, readjust VR02.) (See Page 7, 8)



STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1	IF coil	Output 70dB Genescope	OSC trimmer cap. TC05 Fig. 3-8	TP04 (Fig. 3-7)	T04	Max. IF wave- form as Fig. 3-4	o Turn core T08 & T09 CCW.
2	IF coil	Output 60dB Genescope	Same as above	TP04	LC02	Max. IF wave- form 2 Fig. 3-5	o If not, readjust 1 & 2 slightly
3	535kHz Dial calibra- tion	535kHz ANT input 60dB 400Hz (30% MOD) AM SSG	ANT terminal	REC OUT L or R-ch VTVM & Scope	T03	Max. output	o If broadcasting station is near, it might be used
4	1400kHz Dial Calibra- tion	1400kHz ANT input 60dB 400Hz (30% MOD) AM SSG	Same as above	Same as above	Trimmer TC05	Same as above	Same as above
5	Confirm 535kHz Dial Calibra- tion	535kHz ANT input 60dB 400Hz (30% MOD) AM SSG	Same as above	Same as above		Confirm 535kHz Dial Calibration	o If not, repeat from Step 3
6	Confirm 1400kHz Dial Calibra- tion	1400kHz ANT input 60dB 400Hz (30% MOD) AM SSG	Same as above	Same as above		Confirm 1400kHz Dial Calibration	o If not, repeat from Step 4
7	Confirm 1000kHz Dial Calibra- tion	1000kHz ANT input 60dB 400Hz (30% MOD) AM SSG	Same as above	Same as above		Confirm 1000kHz Dial Calibration	o If not, repeat from Step 3, 4
8	600kHz RF Adj.	600kHz ANT input 50dB 400Hz (30% MOD) AM SSG	Same as above	Same as above	Bar ANT L701	Max. output	
9	1400kHz RF Adj.	1400kHz ANT input 50dB 400Hz (30% MOD) AM SSG	Same as above	Same as above	Trimmer TC06	Same as above	

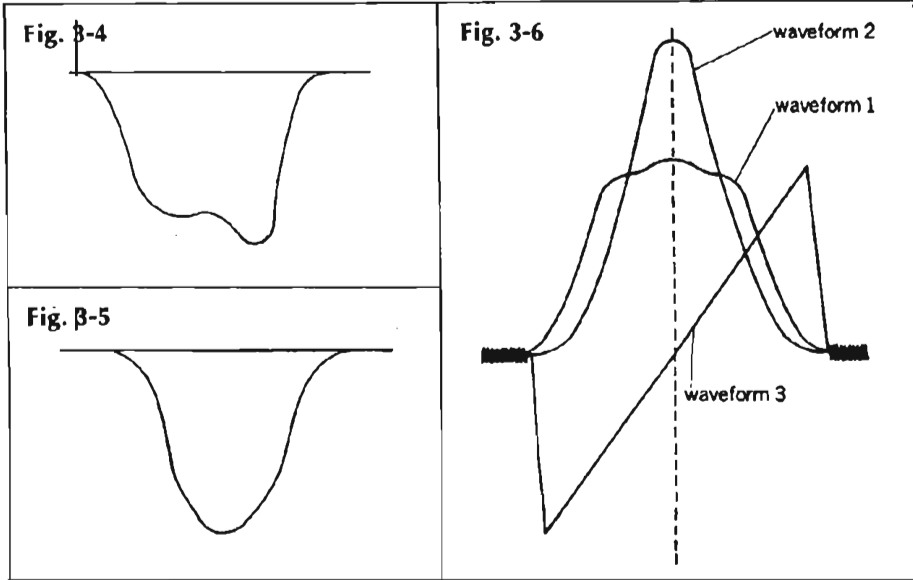


Fig. 3-7

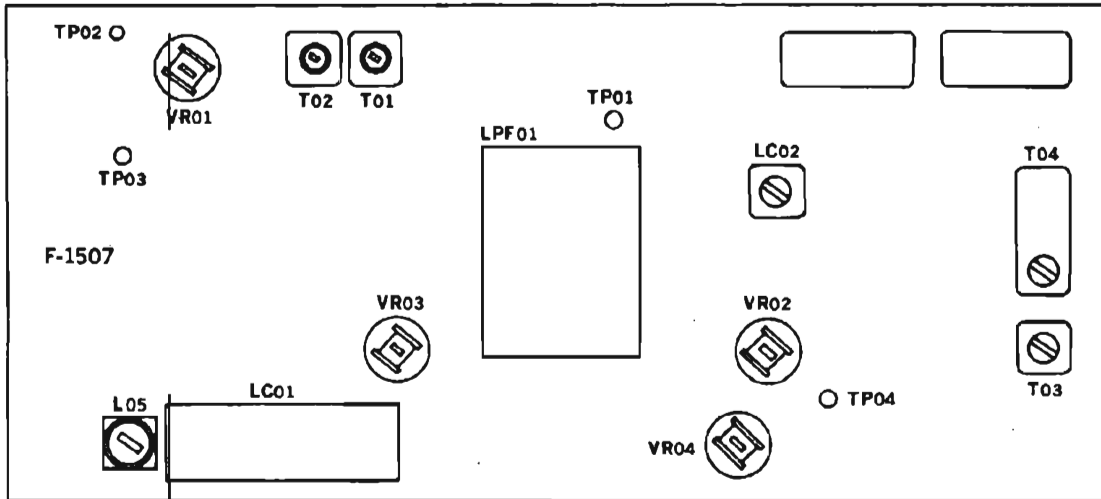


Fig. 3-8

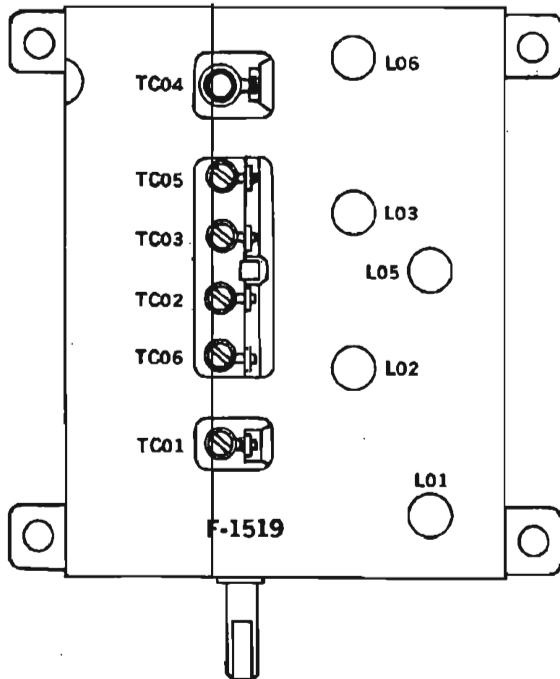
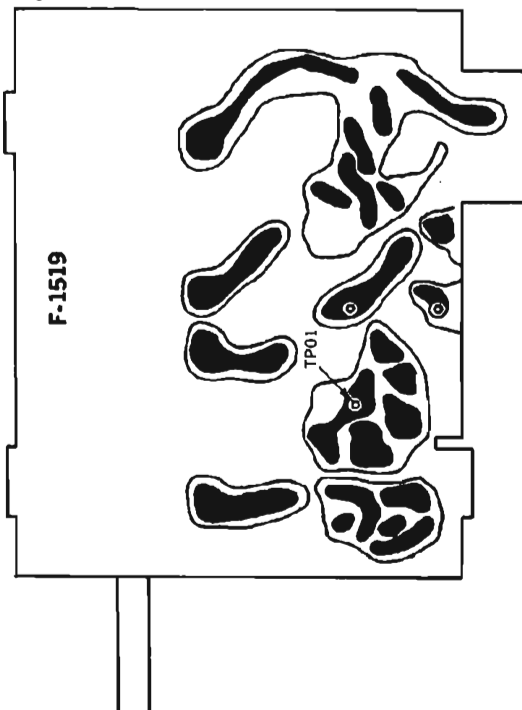
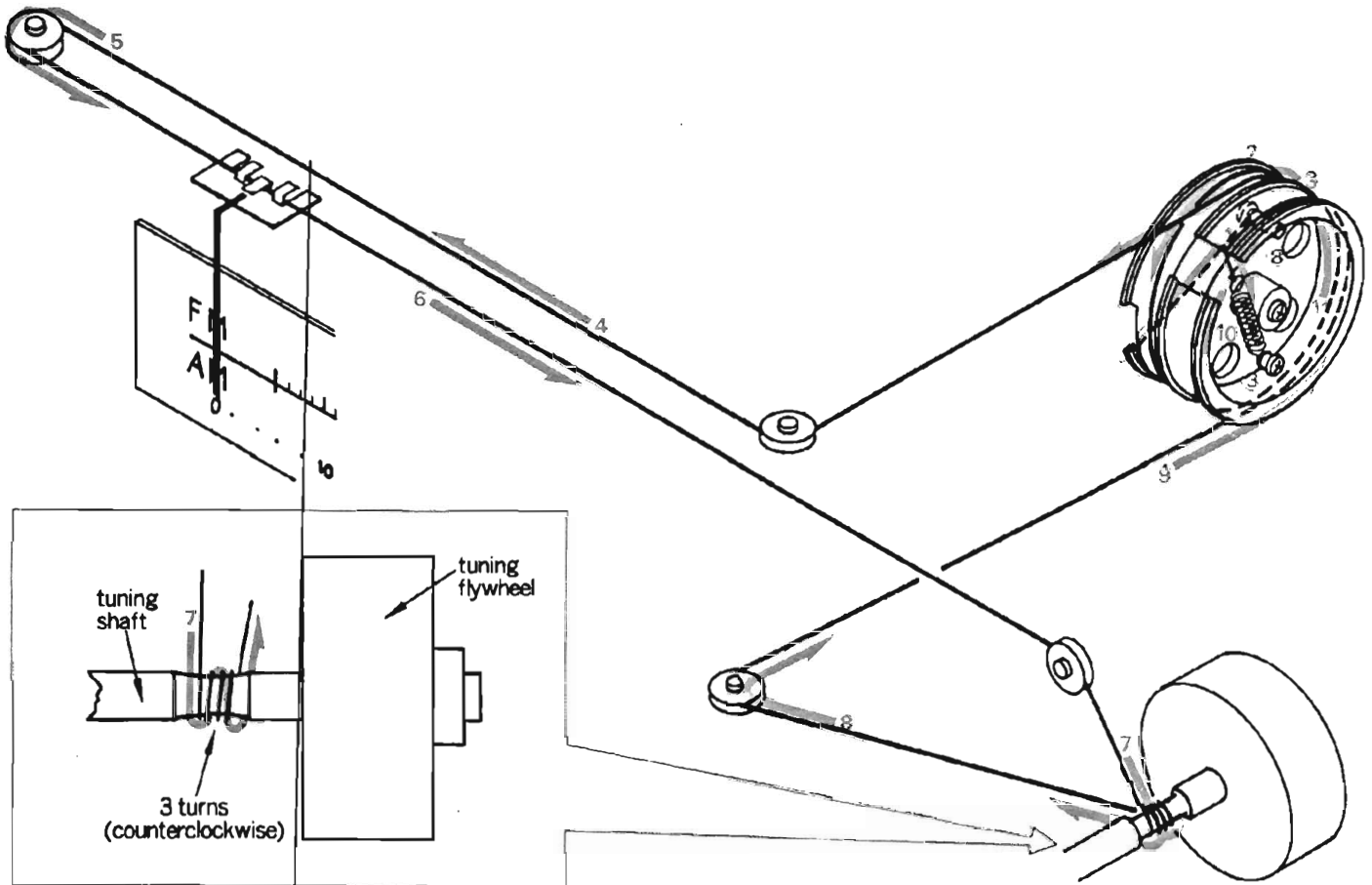


Fig. 3-9



## 4. THREADING OF DIAL CORD



### 1. Threading of Dial Cord

Thread dial cord in numerical order from 1 to 11 as shown in Fig. 3-1.

- 1) Close the variable capacitor completely (Max. capacitance) and tie cord to number ⑧ screw of the dial pulley.
- 2) Thread cord in the direction of arrow from 1 to 6 then wind cord three turns around the tuning shaft counterclockwise.
- 3) Thread cord in the direction of arrow from 7 to 8 then wind it  $1\frac{1}{2}$  turns on the dial pulley from 10 to 11.
- 4) After 11 tie cord to dial spring of the dial pulley.

\*When you perform procedure 4) successfully, please refer to the followings.

- ① To strengthen the dial cord tension, hold around the end of cord and pull it toward the Front Panel.
- ② Then, turn tuning shaft counterclockwise, as the cord tension will be more constantly obtained.
- ③ Tie the cord to dial spring of the dial pulley (same as procedure 4).
- 5) After procedures, lock the knots of cord with paint.

Stock No.	Description
6036050	Dial Cord (0.6mmφ)
6906041	Spring (G)

## 5. TROUBLESHOOTING CHART

### 5-1. Troubleshooting on Power Supply Section

Symptom	Check Point	Cause & What to Do
1. Each lamp not lighted	1. Each lamp not lighted	1. Imperfect contact of power supply plug
		2. Power fuse, F701 opens
		3. Defective power switch, S11
		4. F05 on F-2456 opens
2. Each indicator lamp not lighted	2. Each indicator lamp not lighted	5. Defective diode, D06 on F-2427
		6. Defective FUNCTION switch, S01 (i, j)

### 5-2. Troubleshooting on Main Circuit Section

#### 1. Both channels inoperative

1-1. +37V Supplied to terminal <b>13</b> , <b>06</b> on F-2436	7. Defective Relay, S01 (a, b) on F-1461
	8. Defective TR01, TR02 on F-1461
	9. F06 on F-2456 opens

#### 2. One channel inoperative

2-1. Quick acting fuse on F-2427 opens

1) DC bias Current not adjustable	10. Defective Power transistor, TR701, TR705 (TR702, TR706)
	11. Defective TR11, TR13 (TR12, TR14) on F-2436
	12. Defective TR07 (TR08) on F-2436
2) DC bias current adjustable	13. Change quick acting fuse

3. Quick acting fuse on F-2427 not opens	14. Defective TR01, TR03, TR05, TR09 (TR02, TR04, TR06, TR10) on F-2436
--	---

### 5-3. Troubleshooting on Tone Control Circuit Section

#### 1. Both channels inoperative

1-1. +38V not supplied to emitter of TR01 on F-2428	1. Defective TR01~TR03 on F-2428
---	----------------------------------

#### 2. One channel inoperative

2-1. Reverse two lead wire connections from the output terminals of **05** and **06** on F-2425

1) Inoperative channel reverses	2. Defective main circuit section
2) Inoperative channel not reverses	3. Defective TR01, TR05, TR09 (TR02, TR06, TR10) on F-2425

### 5-4. Troubleshooting on Phono Circuit Section

#### 1. Both channels inoperative

1-1. +36V not supplied to terminals of <b>05</b> , <b>06</b> on F-2458	1. Defective power supply section
--	-----------------------------------

#### 2. One channel inoperative

2-1. Reverse two lead wire connections from the input terminal of **04** and **07** on F-2458

1) Inoperative channel reverses	2. Imperfect contact of turntable output cord
	3. Defective turntable
2) Inoperative channel not reverses	4. Defective TR01, TR03, TR05 (TR02, TR04, TR06) on F-2458

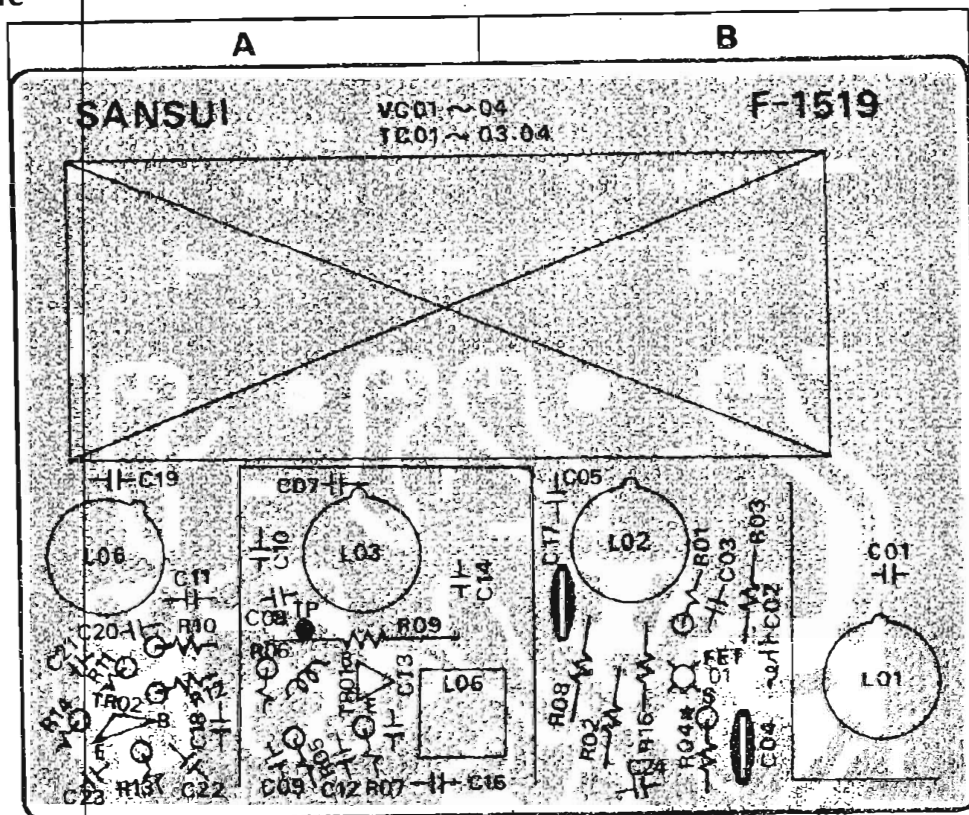
## 5-5. Troubleshooting on Tuner Circuit Section

Symptom	Check Point	Cause & What to Do
<b>1. Both FM and AM inoperative</b>		
1-1. +12V not supplied to emitter of TR01 on F-2431		1. Defective TR01 on F-2431 2. Defective ZD01 on F-2431
1-2. +12V supplied to emitter of TR01 on F-2431		3. Defective IC05 on F-1507 4. Defective L.P.F on F-1507
<b>2. FM inoperative</b>		
2-1. +12V not supplied to terminal of <b>17</b> on F-1507		5. Defective C03, C04, C07, C11, C15 on F1507
2-2. +12V not supplied to terminal of <b>18</b> on F-1507		6. Defective frontend pack, F-1519
2-3. +12V supplied to terminals of <b>17</b> , <b>18</b> on F-1507		
1) Signal meter inoperative (Meter circuit on F-1507 is normally operative)		7. Incorrect adjustment of frontend pack, F-1516 8. Defective frontend pack, F-1519 9. Defective TR01~TR04 on F-1507 10. Defective CF01, CF02 on F-1507
2) Signal meter operative		11. Defective IC01~IC03 on F-1507 12. Defective diode, D01, D02 on F-1507 13. Defective discriminator coil, T01, T02, or out of adjustment
<b>3. Inoperative MPX circuit</b>		
3-1. FM reception inoperative when setting SELECTOR switch to FM AOUT		14. Poor sensitivity due to incorrect tracking IF adjustment 15. Incorrect adjustment of muting volume, VR04
3-2. FM muting function inoperative		16. Defective Selector, S701 (f) 17. Defective muting volume, VR04
3-3. MPX signal including R and L-ch not supplied to points <b>11</b> , <b>12</b> , of IC04		18. Defective IC04 on F-1507
3-4. No channel separation and stereo indicator not lighted		19. Defective L05, LC01 on F-1507 or out of adjustment 20. Defective separation volume, VR03 21. Incorrect adjustment of muting volume, VR04 22. Defective muting volume, VR04 23. Defective Selector, S701 (g) 24. Defective IC05 on F-1507 25. Defective TR02 on F-2431 26. Defective stereo indicator, PL701
<b>4. Signal meter circuit inoperative</b>		
4-1. FM or AM sound can be heard		27. Defective transistor, TR05 TR06 on F-1507 28. Defective diode, D03~D07 on F-1507 29. Defective meter volume, VR02 or out of adjustment 30. Defective signal meter
<b>5. AM inoperative</b>		
5-1. Signal meter operative (AM sound can not be heard)		31. Shorted transistor, TR09 on F-1507 32. Defective IC05 on F-1507 33. Defective low pass filter, LPF01 on F-1507
5-2. Signal meter inoperative (AM sound can not be heard)		34. Defective IC06 on F-1507 35. Bar antenna coil, L701 opened or out of adjustment 36. Opened OSC coil T03, IF coil T04 or LC02 on F-1507

# 6. PARTS LOCATION AND PARTS LIST

## 6-1. F-1519C FM Frontend Pack (Stock No. 7510650 Complete Circuit Board F-1519C)

### Conductor Side



2SC1047



2SC930



3SK39



### Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01	0305800, 1	2SC1047 (A, B) } Transistor	A	C13	0660121	120pF	A
TR02	0305790, 1		2SC930 (C, D) }	A	C14	0657223	0.022μF
FET01	0370131, 2	3SK39 (L, K) FET	B	C16	0660331	330pF	A
L01	4200640	FM ANT Coil	B	C17	0659015	2200pF	B
L02	4210220	FM RF Coil	B	C18	0657223	0.022μF	A
L03	4210220	FM RF Coil	A	C19	0669350	15pF	50V C.C.
L04	4290110	Choke Coil	A	C20	0657102	1000pF	
L05	4235910	FM IF Coil	A	C21	0669369	8.2pF	A
L06	4220430	FM OSC Coil	A	C22	0657223	0.022μF	A
TC04	1230090	Trimmer Capacitor	A	C23	0669221	22pF	A
VC	1220130	FM AM Variable Capacitor	A	C24	0667223	22000pF	B
C01	0669342	5.6pF	B	R01	0106105	1MΩ ¼W C.R. (E.L.R)	B
C02	0657102	1000pF	B	R02	0113104	100kΩ ¼W S.R.	B
C03	0657223	0.022μF	50V C.C.	R03	0113104	100kΩ ¼W S.R.	B
C04	0659015	2200pF		B	R04	{0106101 0106151}	{100Ω(3SK41(L, B)) 150Ω(3SK41(K, C))} ¼W C.R.
C05	0669345	10pF	B	R05	0106392	3.9kΩ	A
C06	0679023	0.39pF	500V Gimmick. C.	R06	0106123	12kΩ	¼W C.R.
C07	0669345	10pF		A	R07	0106392	
C08	0669210	10pF	A	R08	0113121	120Ω	¼W S.R.
C09	0657102	1000pF	A	R09	0113271	270Ω	
C10	0661220	22pF	A	R10	0106392	3.9kΩ	A
C11	0669003	2.2pF	A	R11	0106121	120Ω	A
C12	0657223	0.022μF	A	R12	0106682	6.8kΩ	¼W C.R.
				R13	0106222	2.2kΩ	
				R14	0106182	1.8kΩ	A
				R15	0113470	47Ω ¼W S.R.	B

6-2. F-1507C Tuner Circuit Board (Stock No. 7521000 Complete Circuit Board F-1507C)

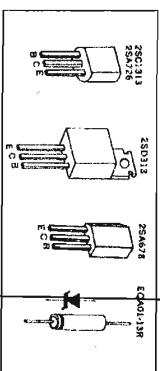
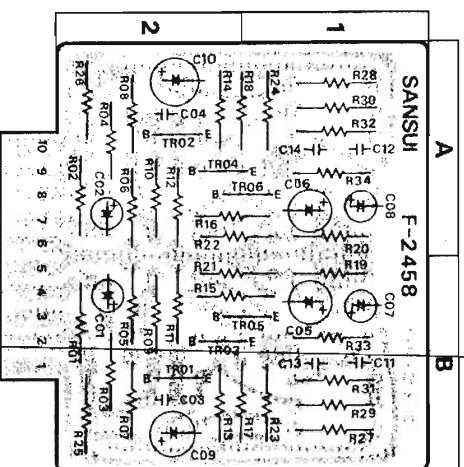
Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01	0306112, 3	2SC738 (C, D)	1 A	C20	0512100	10 $\mu$ F 16V E.C.	1 D
TR02	0306112, 3	2SC738 (C, D)	1 A	C21	0513479	4.7 $\mu$ F 25V E.C.	1 D
TR03	0306112, 3	2SC738 (C, D)	1 B	C22	0660101	100pF	1 C
TR04	0306112, 3	2SC738 (C, D)	1 B	C23	0657223	0.022 $\mu$ F	1 D
TR05	0306112, 3	2SC738 (C, D)	1 B	C24	0657223	0.022 $\mu$ F	1 B
TR06	0306112, 3	2SC738 (C, D)	2 B	C25	0661470	47pF	1 B
TR09	0305731, 2	2SC711 (E, F)	2 C	C26	0657223	0.022 $\mu$ F	1 B
IC01	0360120	$\mu$ PC555H	1 B	C27	0661330	33pF	1, 2 B
IC02	0360120	$\mu$ PC555H	1 B, C	C28	0661470	47pF	2 B
IC03	0360120	$\mu$ PC555H	1 C	C29	0657223	0.022 $\mu$ F	2 B
IC04	0360080	HA1120	1, 2 D	C30	0661470	47pF	2 B
IC05	0360140	HA1149	2 C	C31	0657223	0.022 $\mu$ F	2 B
IC06	0360150	HA1151	1, 2 A	C32	0512100	10 $\mu$ F 16V E.C.	2 B
D01	0311060	1N50P	1 D	C33	0667223	0.022 $\mu$ F	2 B
D02	0311060	1N50P	1 D	C34	0657223	0.022 $\mu$ F	1 B
D03	0310331	1N60	2 B	C36	0515229	2.2 $\mu$ F 50V E.C.	1 D
D04	0310331	1N60	2 B	C37	0512101	100 $\mu$ F 16V E.C.	1 D
D05	0310331	1N60	1 B	C38	0629001	6800pF 50V P.C.	2 D
D06	0310331	1N60	1 B	C39	0513479	4.7 $\mu$ F	2 D
D07	0310331	1N60	2 B	C40	0513479	4.7 $\mu$ F	1 D
D901	0310331	1N60		C41	0515109	1 $\mu$ F	2 D
T01	4235750	FM Discriminator Coil	1 C	C42	0515109	1 $\mu$ F	1 D
T02	4235760		1 C	C43	0600157	0.015 $\mu$ F 50V M.C.	2 C
T03	4220550	AM OSC Coil	2 A	C44	0600157	0.015 $\mu$ F	1 C
T04	0910270	Ceramic Filter	1, 2 A	C45	0600686	0.0068 $\mu$ F	2 C
L01	4900200	10 $\mu$ H Inductor Coil	1 B	C46	0600686	0.0068 $\mu$ F	1 C
L02	4900200	10 $\mu$ H Inductor Coil	1 B, C	C47	0512101	100 $\mu$ F	1 C, D
L03	4900200	10 $\mu$ H Inductor Coil	1 C	C53	0512100	10 $\mu$ F	1 D
L04	4900100	3.3 $\mu$ H Inductor Coil	1 C	C54	0515109	1 $\mu$ F	2 B
L05	4240720	19kHz MPX Coil	2 D	C55	0515339	3.3 $\mu$ F	1 C
L07	4290011	3.5 $\mu$ H Peaking Coil	2 A	C56	0515109	1 $\mu$ F	2 C
LC01	4240710	MPX Coil Block	2 C, D	C57	0515109	1 $\mu$ F	2 C
LC02	4230620	AM IF Coil	1, 2 A B	C58	0512100	10 $\mu$ F 16V E.C.	2 C
LPF01	0910210	Low Pass Filter	1, 2 B C	C59	0519102	3.3 $\mu$ F 50V (BRN) E.C.	1 C
CF02a	0910150	Ceramic Filter	1 A	C60	0601686	0.0068 $\mu$ F 50V M.C.	1 C
CF02b	0910150	Ceramic Filter	1 A	C61	0519102	3.3 $\mu$ F 50V (BRN) E.C.	1 C
VR01	1035150	22k $\Omega$ (B)	1 D	C62	0601686	0.0068 $\mu$ F 50V M.C.	1 C
VR02	1035170	47k $\Omega$ (B)	2 B	C64	0620361	360pF 50V P.C.	2 A
VR03	1035070	1k $\Omega$ (B)	2 C	C65	0669215	15pF 50V C.C.	2 A
VR04	1035190	100k $\Omega$ (B)	2 B	C66	0512100	10 $\mu$ F 16V E.C.	2 A
C01	0657223	0.022 $\mu$ F	1 A	C67	0657223	0.022 $\mu$ F	2 A
C02	0657223	0.022 $\mu$ F	1 A	C68	0657223	0.022 $\mu$ F	2 A
C03	0657223	0.022 $\mu$ F	1 B	C69	0657223	0.022 $\mu$ F	1, 2 A
C04	0657223	0.022 $\mu$ F	1 B	C70	0601107	0.01 $\mu$ F	2 A
C05	0657223	0.022 $\mu$ F	1 B	C71	0601106	0.001 $\mu$ F	2 A
C06	0657223	0.022 $\mu$ F	1 B	C72	0515109	1 $\mu$ F	2 A
C07	0657223	0.022 $\mu$ F	1 B	C73	0515339	3.3 $\mu$ F	2 B
C08	0657223	0.022 $\mu$ F	1 B	C74	0601107	0.01 $\mu$ F 50V M.C.	2 A
C09	0657223	0.022 $\mu$ F	1 B	C75	0512101	100 $\mu$ F 16V E.C.	2 A
C10	0657223	0.022 $\mu$ F	1 B	C76	0601337	0.033 $\mu$ F	2 A
C11	0657223	0.022 $\mu$ F	1 C	C77	0601396	0.0039 $\mu$ F	2 A
C12	0657223	0.022 $\mu$ F	1 C	C78	0601227	0.022 $\mu$ F	2 A
C13	0657223	0.022 $\mu$ F	1 C	C79	0510470	47 $\mu$ F 6.3V E.C.	2 B
C14	0657223	0.022 $\mu$ F	1 C	C81	0515339	3.3 $\mu$ F	50V E.C.
C15	0657223	0.022 $\mu$ F	1 C	C901	0515109	1 $\mu$ F	
C16	0657223	0.022 $\mu$ F	1 C	R04	0113151	150 $\Omega$	1 A
C17	0660101	100pF	1 C	R05	0113391	390 $\Omega$	1 A
C18	0660101	100pF	1 D	R06	0113681	680 $\Omega$	1 A
C19	0660101	100pF	1 D	R07	0113153	15k $\Omega$	1 A
				R08	0113103	10k $\Omega$	1 A



### 6-3. F-2458 Equalizer Circuit Board

(Stock No. 7506920 Complete Circuit Board F-2458)

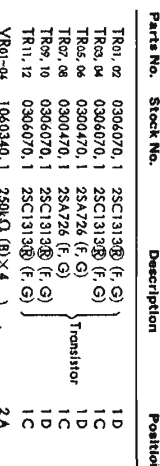
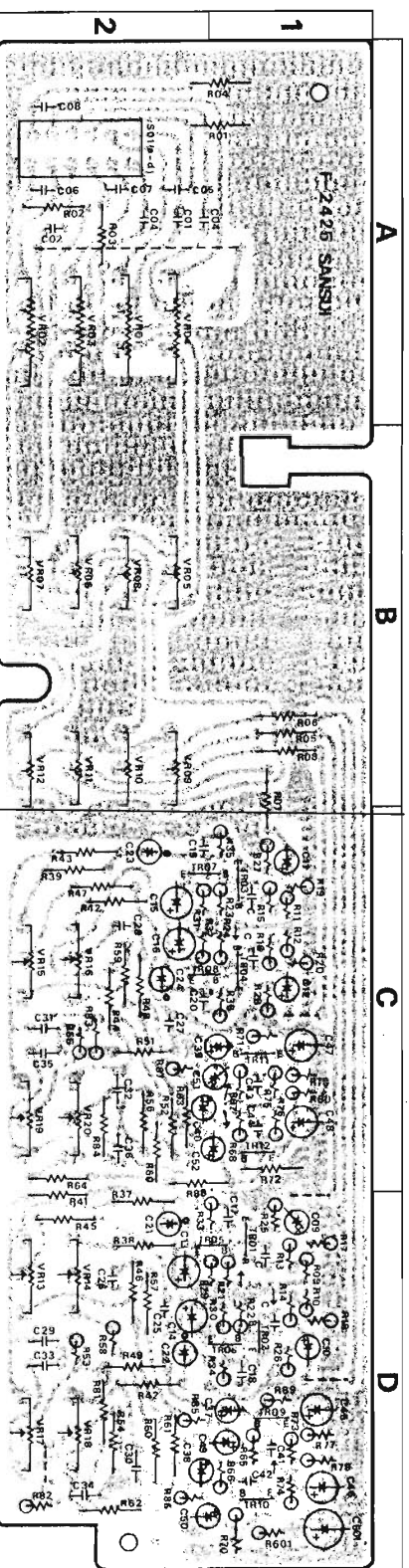


Parts No.	Stock No.	Description	Position
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TR01,02	0306070,1	25C1313(B) (F,G)	2B, 2A
TR03,04	030410,1	25A726W (F,G)	2A, 2B
TR05,06	030410,1	25A726W (F,G)	1,2A,1,2B
CA1,02	0519105	2.2µF 50V E.C. (BRN)	2B, 2A
CA3,04	0660100	10µF 50V C.C.	2A, 2B
CA5,06	0510101	100µF 6.3V E.C.	1B, 1A
CA7,08	0519101	1µF 50V (BRN)	1B, 1A
CA9,10	0512470	47µF 16V E.C.	1B, 2A
CA11,12	0660126	0.0012µF 50V M.C.	1B, 1A
CA13,14	0660476	0.0047µF 50V M.C.	1A, 1B
CA15,16	0660101	1000µF 50V C.C.	2B, 2A
CA17,18	0107104	100KΩ	2B, 2A
CA19,20	0107222	2.2KΩ	2B, 2A
CA21,22	0107184	150KΩ	2B, 2A
CA23,24	0107273	27KΩ	2B, 2A
CA25,26	0107104	100KΩ	2B, 2A
CA27,28	0107334	330KΩ	2B, 2A
CA29,30	0107331	150KΩ	2B, 2A
CA31,32	0107543	56KΩ	1,2B, 1,2A
CA33,34	0107274	270KΩ	1B, 1A
CA35,36	0107102	100Ω	1,2B, 1,2A
CA37,38	0107101	100Ω	1,2B, 1,2A
CA39,40	0107472	4.7KΩ	1B, 1A
CA41,42	0107104	100KΩ	1B, 1A
CA43,44	0107182	1.8KΩ	1B, 1A
CA45,46	0107331	330KΩ	1B, 1A
CA47,48	0107331	330KΩ	1B, 1A
CA49,50	0107543	56KΩ	1B, 1A
CA51,52	0106544	560KΩ	1B, 1A
CA53,54	0106294	220KΩ	1B, 1A

### 6-4. F-2425 Tone Control Circuit Board

(Stock No. 7506970 Complete Circuit Board F-2425)

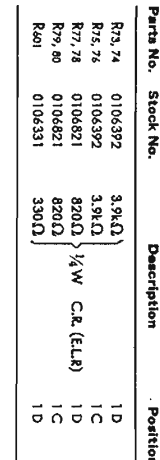
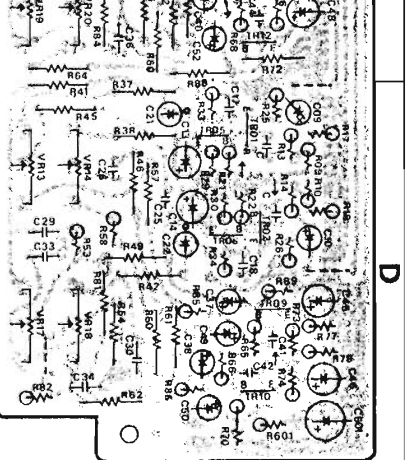


Parts No.	Stock No.	Description	Position
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TR01,02	0306070,1	25C1313(B) (F,G)	1D
TR03,04	0306070,1	25C1313(B) (F,G)	1C
TR05,06	0306070,1	25A726 (F,G)	1D
TR07,08	0306070,1	25A726 (F,G)	1C
TR09,10	0306070,1	25C1313(B) (F,G)	1D
TR11,12	0306070,1	25C1313(B) (F,G)	1C
VR01-04	1060340,1	250KΩ (B)X4	2A
VR05-08	1060350,1	250KΩ (M,N)X4	2B
VR09-12	1060350,1	250KΩ (M,N)X4	2B
VR13,14	1010930,1	100KΩ (B)X2	2D
VR15,16	1010930,1	100KΩ (B)X2	2C
VR17,18	1010930,1	100KΩ (B)X2	2D
VR19,20	1010930,1	100KΩ (B)X2	2C
CA01,02	0620181	180µF 50V P.C.	2A
CA03,04	0620181	180µF 50V P.C.	2A
CA05,06	0620127	0.022µF 50V M.C.	1,2A, 3A
CA07,08	0620127	1µF 50V E.C. (BRN)	2A
CA09,10	0519101	1µF 50V E.C. (BRN)	1D
CA11,12	0519101	100µF 6.3V E.C.	1C
CA13,14	0510101	100µF 6.3V E.C.	1,2D
CA15,16	0510101	100µF 6.3V E.C.	1,2C
CA17,18	0660220	22µF 50V C.C.	1D
CA19,20	0660220	22µF 50V C.C.	1C
CA21,22	0519102	3.3µF 50V E.C. (BRN)	2D, 1, 2D
CA23,24	0519102	3.3µF 50V E.C. (BRN)	2C
CA25,26	0660226	0.0022µF	2C
CA27,28	0660226	0.0022µF	2D
CA29,30	0660226	0.0022µF	2C
CA31,32	0660226	0.0022µF	2D
CA33,34	0660330	33µF 50V C.C.	2C
CA35,36	0660330	33µF 50V C.C.	2D
CA37,38	0660330	33µF 50V C.C.	2C
CA39,40	0660330	33µF 50V C.C.	2D
CA41,42	0660330	33µF 50V C.C.	2C
CA43,44	0660330	33µF 50V C.C.	2D
CA45,46	0510101	100µF 6.3V E.C.	1D
CA47,48	0510101	100µF 6.3V E.C.	1C
CA49,50	0519102	3.3µF 50V E.C. (BRN)	1D
CA51,52	0519102	3.3µF 50V E.C. (BRN)	1C
CA01	0515470	47µF 50V E.C.	1D

### 6-5. F-2431 Power Supply Circuit Board for Tuner Section

(Stock No. 7506920 Complete Circuit Board F-2431)

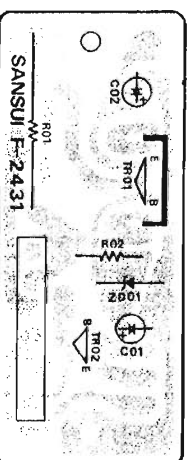


Parts No.	Stock No.	Description	Position
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R01,02	0106573	27KΩ	1A, 2A
R03,04	0106573	27KΩ	2A, 1A
R05,06	0107222	2.2KΩ	1B
R07,08	0107222	2.2KΩ	1B, C, 1B
R09,10	0106534	330KΩ	1D
R11,12	0106534	330KΩ	1C
R13,14	0106534	330KΩ	1D
R15,16	0106534	330KΩ	1D
R17,18	0106545	56KΩ	1C
R19,20	0106545	56KΩ	1C
R21,22	0106533	330KΩ	1D
R23,24	0106533	330KΩ	1C
R25,26	0106522	2.2KΩ	1D
R27,28	0106522	2.2KΩ	1C
R29,30	0106522	2.2KΩ	1D
R31,32	0106821	820Ω	1C
R33,34	0106103	101Ω	1D
R35,36	0106103	101Ω	1C
R37,38	0107392	3.9KΩ	2D
R39,40	0107392	3.9KΩ	2D
R41,42	0107123	12KΩ	2C,D, 2D
R43,44	0107123	12KΩ	2C
R45,46	0107222	2.2KΩ	2D
R47,48	0107222	2.2KΩ	2C
R49,50	0107103	101Ω	2D
R51,52	0107103	101Ω	2D
R53,54	0107332	3.3KΩ	2B
R55,56	0107332	3.3KΩ	2B
R57,58	0106532	3.3KΩ	2D
R59,60	0106532	3.3KΩ	2D
R61,62	0107392	3.9KΩ	2D
R63,64	0107392	3.9KΩ	2D
R65,66	0106992	3.9KΩ	2C
R67,68	0107392	3.9KΩ	2C
R69,70	0106992	3.9KΩ	2C
R71,72	0106992	3.9KΩ	2C
R73,74	0106992	3.9KΩ	2C
R75,76	0106992	3.9KΩ	2C
R77,78	0106992	3.9KΩ	2C
R79,80	0106992	3.9KΩ	2C
R81,82	0106992	3.9KΩ	2C
R83,84	0106992	3.9KΩ	2C
R85,86	0106992	3.9KΩ	2C
R87,88	0106992	3.9KΩ	2C
R89,90	0106992	3.9KΩ	2C
R91,92	0106992	3.9KΩ	2C
R93,94	0106992	3.9KΩ	2C
R95,96	0106992	3.9KΩ	2C
R97,98	0106992	3.9KΩ	2C
R99,00	0106992	3.9KΩ	2C

### 6-5. F-2431 Power Supply Circuit Board for Tuner Section

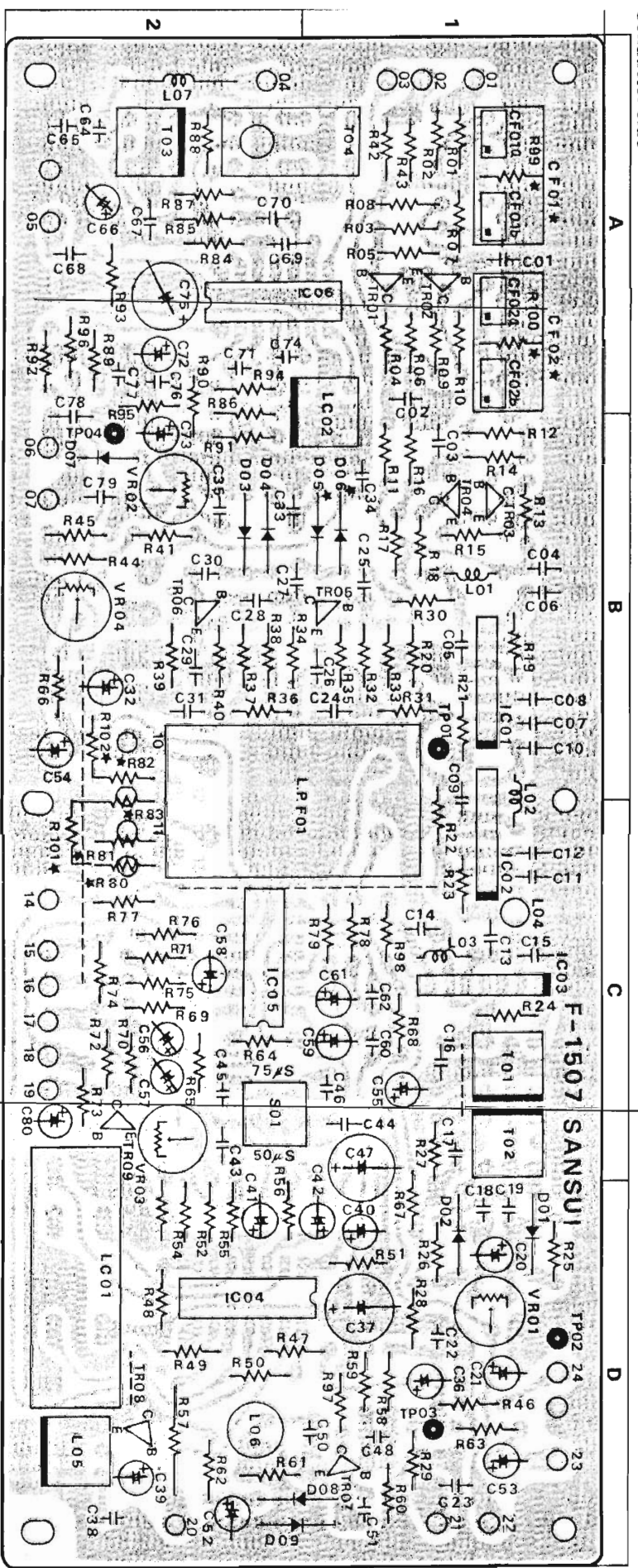
(Stock No. 7506920 Complete Circuit Board F-2431)



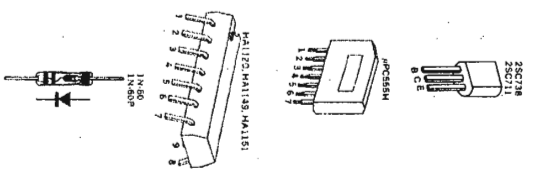
Parts No.	Stock No.	Description
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TR01	0308390-2	25D313 (C,D,E) Transistor
ZD01	0308392	25A478 (7) Zener Diode
R01	0315970	330KΩ
R02	0512221	220µF 16V E.C.
R03	0512101	100µF 16V E.C.
R04	0183391	390Ω 3W C.A.R.
R05	0107472	4.7KΩ 1/4W C.A.R.
R06	0183391	390Ω 3W C.A.R.

Conductor Side



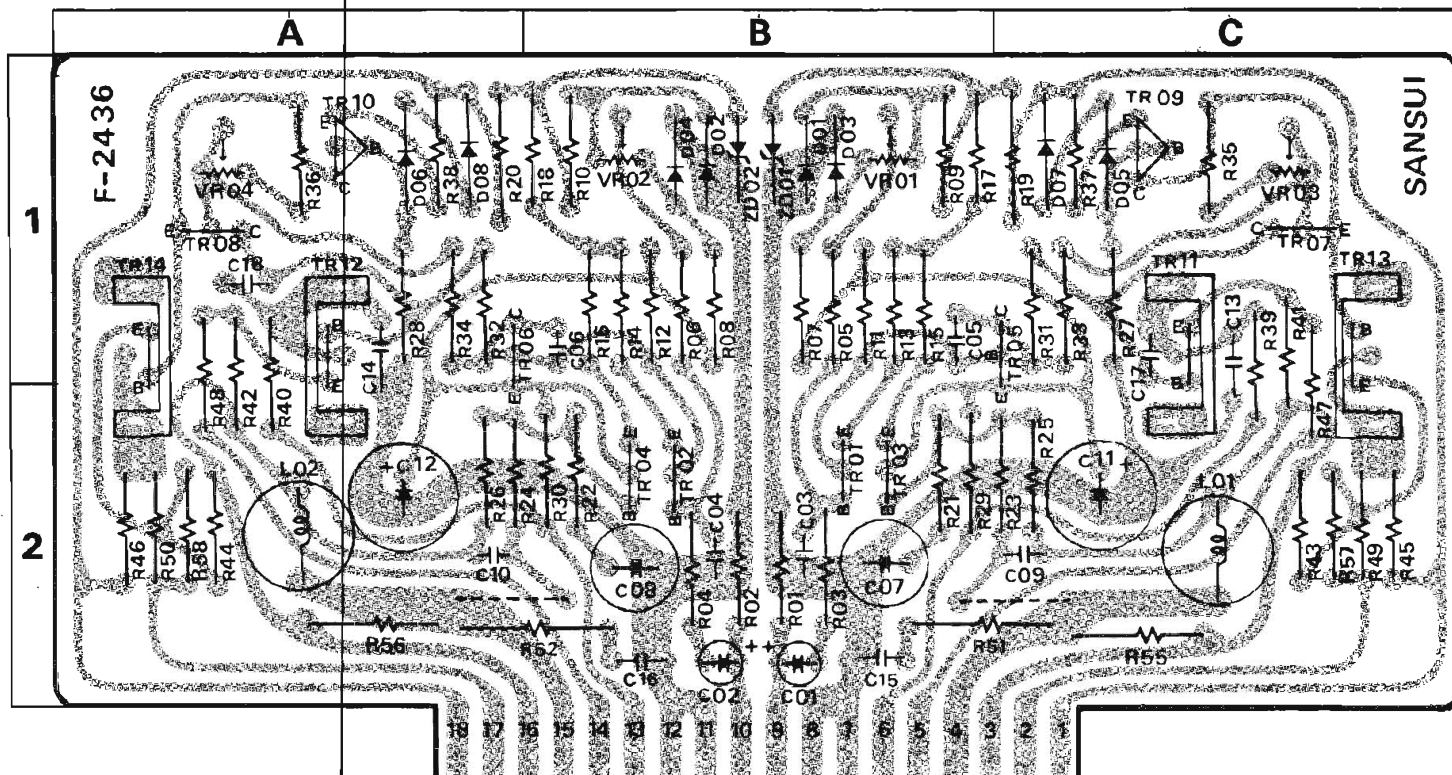
- Abbreviations**
- C.R. : Carbon Resistor
  - S.R.R. : Solid Resistor
  - Ca.R. : Cement Resistor
  - M.R. : Metallized Film Resistor
  - M.C. : Mylar Capacitor
  - E.C. : Electrolytic Capacitor
  - BP.E.C. : Bipolar Electrolytic Capacitor
  - C.C. : Ceramic Capacitor
  - M.C. : Mica Capacitor
  - O.C. : Oil Capacitor
  - P.C. : Polystyrene Capacitor
  - T.C. : Tantalum Capacitor



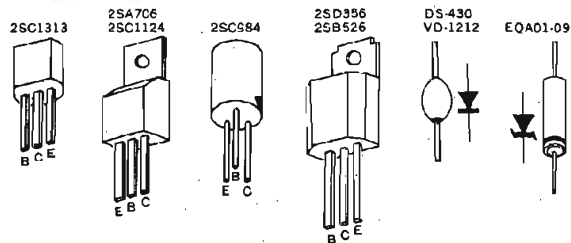
Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
R09	0113471	470Ω	1A	R30	0113102	1kΩ	1B	R40	0113471	470Ω	1D	R88	0113224	220kΩ	2A
R11	0113479	4.7Ω	1B	R31	0113391	390Ω	1B	R41	0113122	1.2kΩ	2C	R89	0113122	1.2kΩ	2A
R13	0113151	150Ω	1B	R32	0113391	390Ω	1B	R42	0113103	10kΩ	2C	R90	0113103	10kΩ	2A
R14	0113391	390Ω	1B	R33	0113220	22Ω	2B	R43	0113103	10kΩ	2C	R91	0113103	10kΩ	2B
R15	0113221	220Ω	1B	R34	0113223	22kΩ	2B	R44	0113152	1.5kΩ	1C	R92	0113152	1.5kΩ	2A
R16	0113562	5.6kΩ	1B	R35	0113183	18kΩ	2B	R45	0113151	1.5kΩ	2A	R93	0113151	1.5kΩ	2A
R17	0113103	10kΩ	1B	R36	0113102	1kΩ	2B	R46	0113182	1.8kΩ	2A	R94	0113182	1.8kΩ	2A
R18	0113102	1kΩ	1B	R37	0113102	1kΩ	2B	R47	0113183	18kΩ	2C	R95	0113183	18kΩ	2A
R19	0113102	1kΩ	1B	R38	0113104	10kΩ	1A	R48	0113101	100Ω	2C	R96	0113101	100Ω	2A
R20	0113479	4.7Ω	1B	R39	0113102	1kΩ	1A	R49	0113473	4.7kΩ	2C	R97	0113473	4.7kΩ	2A
R21	0113102	1kΩ	1B	R40	0113333	33kΩ	1A	R50	0113473	4.7kΩ	2C	R98	0113473	4.7kΩ	1C
R22	0113479	4.7Ω	1B, C	R41	0113681	680Ω	1D	R51	0113479	4.7Ω	2C	R99	0113681	680Ω	2C
R23	0113102	1kΩ	1C	R42	0113479	4.7Ω	2D	R52	0113472	2.2kΩ	2C	R100	0113352	3.3kΩ	2C
R24	0113482	6.8kΩ	1C	R43	0113334	330kΩ	2D	R53	0113472	4.7kΩ	2C	R101	0113352	3.3kΩ	2C
R25	0113102	1kΩ	1D	R44	0113321	220Ω	2D	R54	0113322	2.2kΩ	2C	R102	0113103	10kΩ	2C
R26	0113102	1kΩ	1D	R45	0113221	220Ω	2D	R55	0113103	10kΩ	2C	R103	0113223	22kΩ	2C
R27	0113101	100Ω	1C	R46	0113472	4.7kΩ	1D	R56	0113332	3.3kΩ	1C	R104	0113223	22kΩ	2C
R28	0113471	4.7Ω	1D	R47	0113151	1.5kΩ	2C, D	R57	0113332	3.3kΩ	2A	R105	0113223	22kΩ	2A
R29	0113152	1.5kΩ	1B	R48	0113332	3.3kΩ	2C, D	R58	0113100	100Ω	2A				
R30	0113220	22Ω	1B	R49	0113332	3.3kΩ	2C, D	R59	0113100	100Ω	2A				
R31	0113220	22Ω	1B	R50	0113332	3.3kΩ	2C, D	R60	0113100	100Ω	2A				
R32	0113333	33kΩ	1B	R51	180Ω	1/4W M.R.	2D	R61	0113100	100Ω	2A				

# 6-6. F-2436A Driver Circuit Board (Stock No. 7570960 Complete Circuit Board F-2436A)

## Conductor Side



Parts No.	Stock No.	Description	Position
TR01, 02	0306070	25C1313® (F, G)	2 B
TR03, 04	0306070	25C1313® (F, G)	2 B
TR05, 06	0300381, 2	25A706-3 (2, 3)	1C, 1, 2A
TR07, 08	0305871, 2	25C984 (B, C)	1C, 1 A
TR09, 10	0305901, 2	25C1124 (2, 3)	1C, 1 A
TR11, 12	0308450-2	25D356 (C, D, E)	1,2C,1,2A
TR13, 14	0303280-2	25B526 (C, D, E)	1,2C,1,2A
D01, 02	0340090	DS-430	1 B
D03, 04	0340090	DS-430	1 B
D05, 06	0340120	VD-1212 Varistor	1C, 1 A
ZD01, 02	0315850	EQA01-09 Zener Diode	1 B
VR01, 02	1035350	4.7kΩ (B)	1 B
VR03, 04	1035310	1kΩ (B) (Solid Type)	1C, 1 A
C01, 02	0519101	1μF 50V (BRN) E.C.	2 B
C03, 04	0660470	47pF 50V C.C.	2 B
C05, 06	0660330	33pF 50V C.C.	1 B
C07, 08	0530101	100μF 6.3V E.C.	2 B
C11, 12	0515101	100μF 50V E.C.	2C, 2 A
C13, 14	0657223	0.022μF 50V C.C.	1,2C,1,2A
C15, 16	0601108	0.1μF 50V M.C.	2 B
C17, 18	0660101	100pF 50V C.C.	1C, 1 A
R01, 02	0107124	120Ω	2 B
R03, 04	0107103	10Ω	2 B
R05, 06	0107124	120Ω	1 B
R07, 08	0107683	68Ω	1 B
R09, 10	0107223	22Ω ¼W C.R.	1 B
R11, 12	0107102	1Ω	1 B
R13, 14	0107479	4.7Ω	1 B
R15, 16	0107479	4.7Ω	1 B
R17, 18	0107332	3.3Ω	1 B



Parts No.	Stock No.	Description	Position
R19, 20	0103472	4.7kΩ ½W C.R.	1C, 1 A
R21, 22	0107182	1.8kΩ	2 B
R25, 26	0107124	120kΩ	2C, 2 A
R27, 28	0107333	33kΩ	1C, 1 A
R29, 30	0107101	100Ω	2B, 2 A
R31, 32	0107390	39Ω	1C, 1 A
R33, 34	0107332	3.3kΩ	1C, 1 A
R35, 36	0107152	1.5kΩ	1C, 1 A
R37, 38	0107181	180Ω	1C, 1 A
R39, 40	0107100	10Ω	1,2C,1,2A
R41, 42	0107151	150Ω	1,2C,1,2A
R43, 44	0107100	10Ω	2C, 2 A
R45, 46	0107151	150Ω	2C, 2 A
R47, 48	0107479	4.7Ω	1,2C,1,2A
R49, 50	0107479	4.7Ω	2C, 2 A
R51, 52	0171100	10Ω 1W M.R.	2B,C,2A,B
R53, 54	0133228	0.22Ω 3W Co. R.	
R55, 56	0107274	270kΩ ¼W C.R.	2C, 2 A

### Abbreviations

- C.R. : Carbon Resistor
- S.R. : Solid Resistor
- Co.R. : Cement Resistor
- M.R. : Metallized Film Resistor
- M.C. : Mylar Capacitor
- E.C. : Electrolytic Capacitor
- BP.E.C.: Bi-Polar Electrolytic Capacitor
- C.C. : Ceramic Capacitor
- Mi.C. : Mica Capacitor
- O.C. : Oil Capacitor
- P.C. : Polystyrene Capacitor
- T.C. : Tantalum Capacitor

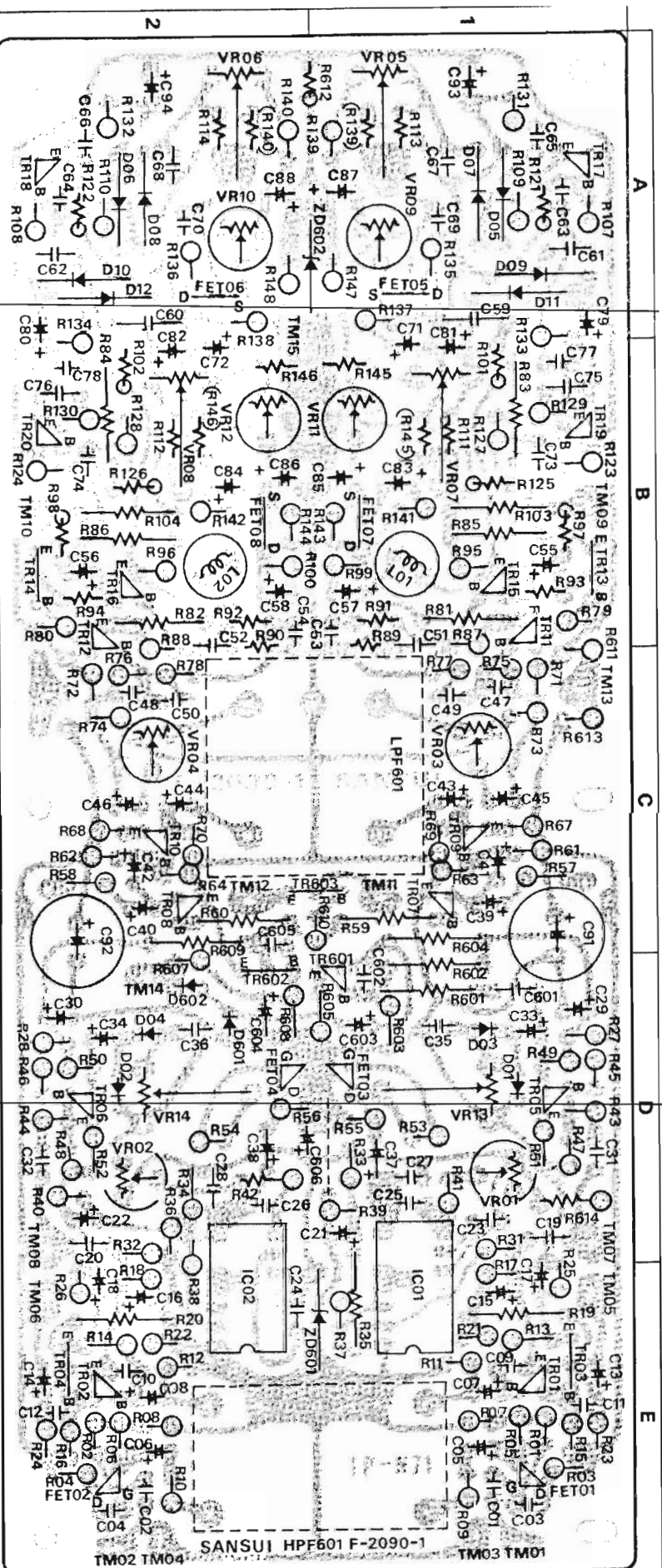
**6-7. F-2090 CD-4 Sub Channel Circuit Board** (Stock No. 7650200 Complete Circuit Board F-2090)

**Parts List**

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position		
TR01, 02	0306090.1	2SC1312 (F, G)	1 E. 2 E	C13, 14	0515109	1 $\mu$ F	1 E. 2 E		
	or	or		C15, 16	0515109	1 $\mu$ F		50V E.C.	
TR03, 04	0306011.2	2SC1222 (E, F)	1 E. 2 E	C17, 18	0515109	1 $\mu$ F	1 E. 2 E		
	0306090.1	2SC1312 (F, G)		C19, 20	0601477	0.047 $\mu$ F	50V M.C.	1 D. 2 D	
TR06, 06	0305951-3	2SC945 (Q, P, K)	2 D	C21, 22	0515109	1 $\mu$ F	50V E.C.	1 D. 2 D	
TR07, 08	0305951-3	2SC945 (Q, P, K)	1 C. 2 C	C23, 24	0600276	0.0027 $\mu$ F	50V M.C.	1 D. 2 E	
TR09, 10	0300301.3.5	2SA640 (M, K, L)	1 C. 2 C	C25, 26	0657102	0.001 $\mu$ F	50V C.C.	1 D. 2 D	
	or	or		C27, 28	0600336	0.0033 $\mu$ F	50V M.C.	1 D. 2 D	
TR11, 12	0300410.1	2SA725 (F, G)	1 B. 2 B	C29, 30	0512100	10 $\mu$ F	16V E.C.	1 D. 2 D	
	0306090.1	2SC1312 (F, G)		C31, 32	0601476	0.0047 $\mu$ F	50V M.C.	1 D. 2 D	
TR13, 14	0306011.2	2SC1222 (E, F)	1 B. 2 B	C33, 34	0515109	1 $\mu$ F	50V E.C.	1 D. 2 D	
	0306090.1	2SC1312 (E, F)		C35, 36	0601157	0.015 $\mu$ F	50V M.C.	1 D. 2 D	
TR15, 16	0306011.2	2SC1222 (E, F)	1 B. 2 B	C37, 38	0512330	33 $\mu$ F	1 D. 2 D		
	0306090.1	2SC1312 (F, G)		C39, 40	0515339	3.3 $\mu$ F	50V E.C.	1 C. 2 C	
TR17, 18	0305951-3	2SC945 (Q, P, K)	1 A. 2 A	C41, 42	0515339	3.3 $\mu$ F	50V E.C.	1 C. 2 C	
TR19, 20	0305951-3	2SC945 (Q, P, K)	1 B. 2 B	C43, 44	0513479	4.7 $\mu$ F	1 C. 2 C		
TR601	0305951-3	2SC945 (Q, P, K)	1 D	C45, 46	0515109	1 $\mu$ F	1 C. 2 C		
TR602	0305951-3	2SC945 (Q, P, K)	2 D	C47, 48	0620331	330pF	50V P.C.	1 C. 2 C	
TR603	0305951-3	2SC945 (Q, P, K)	1, 2 C	C49, 50	0600476	0.0047 $\mu$ F	M.C.	1 C. 2 C	
TR604	0305951-3	2SC945 (Q, P, K)		C51, 52	0600827	0.082 $\mu$ F	1 B. 2 B		
FET01, 02	0370150.1	2SK34 (B, C)	1 E. 2 E	C53, 54	0620331	330pF	50V P.C.	1 B. 2 B	
FET03, 04	0370150	2SK34 (B)		1 E. 2 D	C55, 56	0515109	1 $\mu$ F	50V E.C.	1 B. 2 B
FET05, 06	0370151	2SK34 (C)		1 D. 2 A	C57, 58	0573688	0.68 $\mu$ F	35V T.C.	1 B. 2 B
FET07, 08	0370151	2SK34 (C)		1 A. 2 A	C59, 60	0600158	0.15 $\mu$ F	1 A. 2 A	
IC01, 02	0360110	CD894A	IC	C61, 62	0600686	0.0068 $\mu$ F	50V M.C.	1 A. 2 A	
D01, 02	0311160	1S2473D	1 D. 2 D	C63, 64	0600686	0.0068 $\mu$ F	50V M.C.	1 A. 2 A	
D03, 04	0311160	1S2473D	1 D. 2 D	C65, 66	0600226	0.0022 $\mu$ F	1 A. 2 A		
D05, 06	0310400	1N34A	1 A. 2 A	C67, 68	0601227	0.022 $\mu$ F	1 A. 2 A		
D07, 08	0310400	1N34A	1 A. 2 A	C69, 70	0601476	0.0047 $\mu$ F	1 A. 2 A		
D09, 10	0310400	1N34A	1 A. 2 A	C71, 72	0512100	10 $\mu$ F	16V E.C.	1A, B, 2A, B	
D11, 12	0310400	1N34A	1 A. 2 A	C73, 74	0600127	0.012 $\mu$ F	1 B. 2 B		
D601, 602	0310330	1N60	2 D	C75, 76	0600157	0.015 $\mu$ F	50V M.C.	1 B. 2 B	
D603	0311160	1S2473D		C77, 78	0600157	0.015 $\mu$ F	1 B. 2 B		
ZD601	0316290	RD-12E(B)	1, 2 E	C79, 80	0573338	0.33 $\mu$ F	1 A. 2 A		
ZD602	0315530	RD-6A(K)	1, 2 A	C81, 82	0573338	0.33 $\mu$ F	35V T.C.	1A, B, 2B	
VR01, 02	1035090	2.2k $\Omega$ (B)	1 D. 2 D	C83, 84	0573338	0.33 $\mu$ F	1 B. 2 B		
VR03, 04	1035110	4.7k $\Omega$ (B)	1 C. 2 C	C85, 86	0511330	33 $\mu$ F	10V E.C.	1 B. 2 B	
VR09, 10	1035150	22k $\Omega$ (B)	1 A. 2 A	C87, 88	0510470	47 $\mu$ F	6.3V E.C.	1 A. 2 A	
VR11, 12	1035150	22k $\Omega$ (B)	1 B. 2 B	C91, 92	0513221	220 $\mu$ F	25V E.C.	1C, D, 2C, D	
VR13, 14	1032520.1	100k $\Omega$ (B)	1 D. 2 D	C93, 94	0513101	100 $\mu$ F	1 A. 2 A		
L01, 02	4900191	100mH	Ferri-Inductor	C601	0660221	220pF	50V C.C.	1 D	
LPF601	0910240	VSL-200-6	Low Pass Filter	C602	0660220	22pF	50V C.C.	1 D	
HPF601	0910240	VSL-400	High Pass Filter	C603	0525109	1 $\mu$ F	50V E.C.	1 D	
C01, 02	0601106	0.00 $\mu$ F	50V M.C.	C604	0513479	4.7 $\mu$ F	25V E.C.	2 D	
C03, 04	0660509	5pF	50V C.C.	C605	0512330	33 $\mu$ F	16V E.C.	2 C	
C05, 06	0515109	1 $\mu$ F	50V E.C.	C607	0512100	10 $\mu$ F	16V E.C.		
C07, 08	0515109	1 $\mu$ F	50V E.C.	C901	0512330	33 $\mu$ F	16V E.C.		
C09, 10	0660680	68pF	50V C.C.	R01, 02	0106105	1M $\Omega$	1 E. 2 E		
C11, 12	0660150	15pF	50V C.C.	R03, 04	0106102	1M $\Omega$	1 E. 2 E		
				R05, 06	0106221	220 $\Omega$	1 E. 2 E		
				R07, 08	0106123	12k $\Omega$	1 E. 2 E		
				R09, 10	0106272	2.7k $\Omega$	1/4 W C.R. (E.L.R.)		
				R11, 12	0106332	3.3k $\Omega$	1 E. 2 E		
				R13, 14	0106394	390k $\Omega$	1 E. 2 E		
				R15, 16	0106184	180k $\Omega$	1 E. 2 E		
				R17, 18	0106472	4.7k $\Omega$	1 E. 2 E		
				R19, 20	0107104	100k $\Omega$	1/4 W C.R.		
				R21, 22	0106331	330 $\Omega$	1 E. 2 E		
				R23, 24	0106472	4.7k $\Omega$	1/4 W C.R. (E.L.R.)		
				R25, 26	0106471	470 $\Omega$	1 E. 2 E		



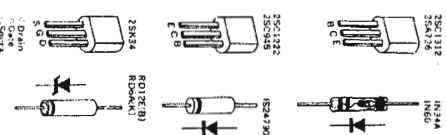
Conductor Side



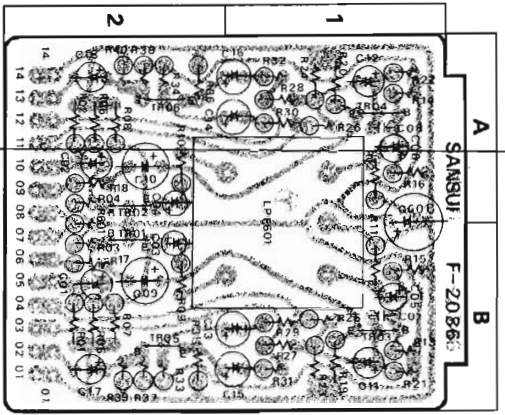
- Abbreviations**
- C.R. : Carbon Resistor
  - M.R. : Metallized Film Resistor
  - B.P.E.C. : Bi-Polar Electrolytic Capacitor
  - S.R. : Solid Resistor
  - M.C. : Mylar Capacitor
  - C.C. : Ceramic Capacitor
  - C.E.R. : Cement Resistor
  - E.C. : Electrolytic Capacitor
  - M.L.C. : Mica Capacitor
  - O.C. : Oil Capacitor
  - P.C. : Polyester Capacitor
  - T.C. : Tantalum Capacitor

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
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R27	0106332	3.3kΩ	1D	R3.64	0106474	470kΩ	1C.2C	R103,104	0107333	3kΩ	1B.2B
R28	0106472	4.7kΩ	2D	R37,68	0106221	220Ω	1C.2C	R107,108	0106473	47kΩ	1A.2A
R31,32	0106222	2.2kΩ	1D.2D	R69,70	0109472	4.7kΩ	1C.2C	R109,110	0106473	47kΩ	1A.2A
R33,34	0106103	10kΩ	1D.2D	R71,72	0106474	470kΩ	1C.2C	R111,112	0106473	47kΩ	1B.2B
R35	0107472	4.7kΩ	1D.E	R73,74	0106473	47kΩ	1C.2C	R113,114	0106563	56kΩ	1A.2A
R36	0106472	4.7kΩ	2D	R75,76	0106333	33kΩ	1C.2C	R121,122	0106473	47kΩ	1A.2A
R37,38	0106472	4.7kΩ	1E.2DE	R77,78	0106472	4.7kΩ	1C.2C	R123,124	0106473	47kΩ	1B.2B
R39,40	0106103	10kΩ	1D.2D	R79,80	0106273	27kΩ	1B.2B	R126,126	0106473	47kΩ	1B.2B
R41,42	0106272	2.7kΩ	1D.2D	R81,82	0107272	2.7kΩ	1B.2B	R127,128	0106103	10kΩ	0kΩ
R43,44	0106281	820Ω	1D.2D	R83,84	0107479	4.7kΩ	1B.2B	R129,130	0106104	10kΩ	0kΩ
R45,46	0106564	560kΩ	1D.2D	R85,86	0107103	10kΩ	1B.2B	R131,132	0106682	68kΩ	1A.2A
R47,48	0106473	4.7kΩ	1D.2D	R87,88	0106473	4.7kΩ	1B.2B	R133,134	0106682	68kΩ	1A,2A,8
R49,50	0106482	68kΩ	1D.2D	R89,90	0106103	10kΩ	1B.2B	R135,136	0106104	10kΩ	1A.2A
R51,52	0106680	68kΩ	1D.2D	R91,92	0106223	22kΩ	1B.2B	R137,138	0106183	18kΩ	1A.2B
R53,54	0106883	68kΩ	1D.2D	R93,94	0106103	10kΩ	1B.2B	R139,140	0106473	47kΩ	1A.2A
R55,56	0106104	10kΩ	1D.2D	R95,96	0106392	39kΩ	1B.2B	R141,142	0106104	10kΩ	1B.2B
R57,58	0106562	5.6kΩ	1C.2C	R97,98	0106183	18kΩ	1B.2B	R143,144	0106183	18kΩ	1B.2B
R59,60	0107223	22kΩ	1C.2C	R99,100	0106394	39kΩ	1B.2B	R145,146	0106394	39kΩ	1B.2B
R61,62	0106333	33kΩ	1C.2C	R101,102	0106561	560Ω	1B.2B	R147,148	0106102	1kΩ	1A.2A



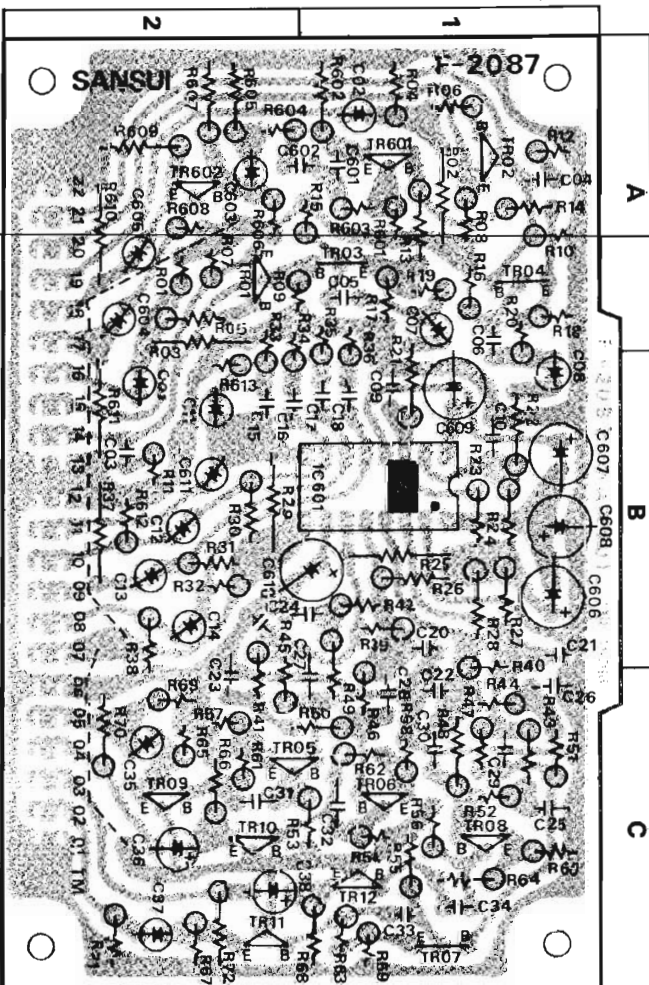
**6-8. F-2086 CD-4 Main Circuit Board**  
(Stock No. 7697290 Complete Circuit Board F-2086)



**Parts List**

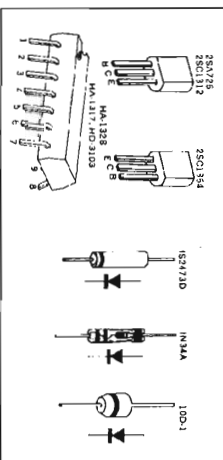
Parts No.	Stock No.	Description	Position
TR01, 02	0306090, 1	2SC1312 (F, G)	2B, 2A
TR03, 04	0306090, 1	2SC1312 (F, G)	1B, 1A
TR05, 06	0306090, 1	2SC1312 (F, G)	2B, 2A
LPF001	0910230	VSL-200-3 Low Pass Filter	2A, 1A, B
C01, 02	0515109	1 $\mu$ F 50V E.C.	2B, 2A
C03, 04	0513479	4.7 $\mu$ F 25V E.C.	2B, 2A
C05, 06	0515109	1 $\mu$ F 50V E.C.	1B, 1A
C07, 08	0646030	33 $\mu$ F 50V C.C.	1B, 1A
C09, 10	0510101	100 $\mu$ F 6.3V E.C.	2B, 2A
C11, 12	0519105	2.2 $\mu$ F	1B, 1A
C13, 14	0519102	3.3 $\mu$ F	1, 2B, 1, 2A
C15, 16	0515109	1 $\mu$ F 50V E.C.	1, 2B, 1, 2A
C17, 18	0515109	1 $\mu$ F 50V E.C.	2B, 2A
C601	0513101	100 $\mu$ F 25V E.C.	1A, B
R01, 02	0106474	470 $\Omega$	2B, 2A
R03, 04	0106474	270 $\Omega$	2B, 2A
R05, 06	0106472	270 $\Omega$	2B, 2A
R07, 08	0106332	3.3 $\Omega$	2B, 2A
R09, 10	0106472	4.7 $\Omega$	2B, 2A
R11, 12	0106472	4.7 $\Omega$	2B, 2A
R13, 14	0106474	270 $\Omega$	1B, 1A
R15, 16	0106483	82 $\Omega$	1B, 1A
R17, 18	0106271	270 $\Omega$	1B, 1A
R19, 20	0106392	3.9 $\Omega$	1B, 1A
R21, 22	0106822	8.2 $\Omega$	1B, 1A
R23, 24	0106124	120 $\Omega$	1B, 1A
R25, 26	0109123	120 $\Omega$	1B, 1A
R27, 28	0106103	10 $\Omega$	1B, 1A
R29, 30	0106103	10 $\Omega$	1B, 1A
R31, 32	0106103	10 $\Omega$	1B, 1A
R33, 34	0106102	1 $\Omega$	1B, 1A
R35, 36	0106102	1 $\Omega$	2B, 2A
R37, 38	0106394	390 $\Omega$	2B, 2A
R39, 40	0106474	270 $\Omega$	2B, 2A
R601	0106451	150 $\Omega$	2A, 1B

**6-9. F-2087 QS Matrix Circuit Board**  
(Stock No. 7690260 Complete Circuit Board F-2087)



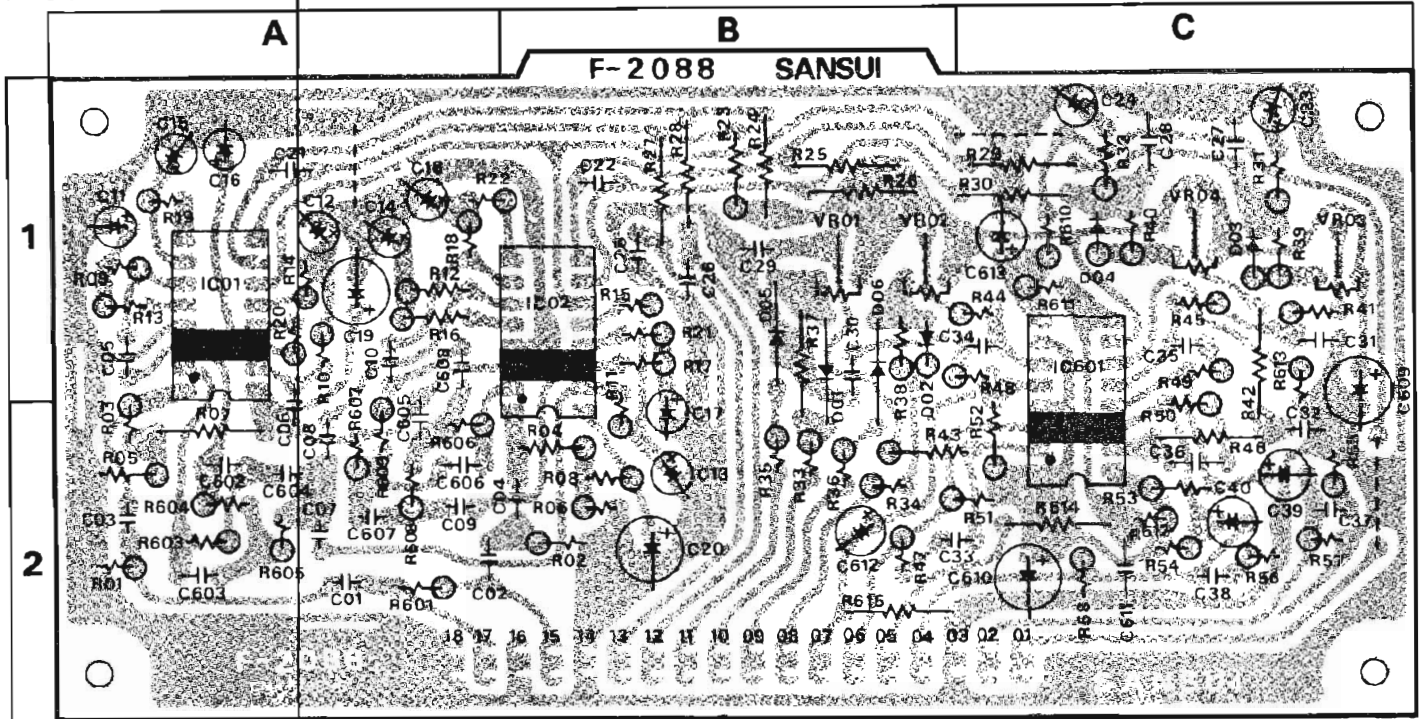
**Parts List**

Parts No.	Stock No.	Description	Position
TR01, 02	0300410, 1	2SA726 (F, G)	2A, 1A
TR03, 04	0306090, 1	2SC1312 (F, G)	1A
TR05, 06	0306091	2SC1312 (G)	1, 2C, 1C
TR07, 08	0306091	2SC1312 (G)	1C
TR09, 10	0306090, 1	2SC1312 (F, G)	2C
TR11, 12	0306090, 1	2SC1312 (F, G)	2C, 1C
TR601	0306090, 1	2SC1312 (F, G)	1A
TR602	0306090, 1	2SC1312 (F, G)	2A
IC601	0360210	HA-1328 IC	1B
C01, 02	0515339	3.3 $\mu$ F 50V E.C.	2B, 1A
C03, 04	0600480	0.0048 $\mu$ F 50V M.C.	2B, 1A
C05, 06	0600107	0.01 $\mu$ F	1A, 1A
C07, 08	0519101	1 $\mu$ F 50V E.C.	1A, 1B
C09	0660151	150 $\mu$ F 50V C.C.	1B
C10	0660151	150 $\mu$ F	1B
C11	0513100	10 $\mu$ F	2B
C12	0513100	10 $\mu$ F	2B
C13	0513100	10 $\mu$ F	2B
C14	0513100	10 $\mu$ F	2B
C15	0600276	0.0027 $\mu$ F	2B
C16	0600276	0.0027 $\mu$ F	2B
C17	0600276	0.0027 $\mu$ F	2B
C18	0600276	0.0027 $\mu$ F	1B
C19, 20	0620561	50 $\mu$ F	1B
C21, 22	0620561	50 $\mu$ F	1B, 1C
C23, 24	0600337	0.033 $\mu$ F	2B, C1, 2B
C25, 26	0600337	0.033 $\mu$ F	1C
C27, 28	0600107	0.01 $\mu$ F	1B, C, 1C
C29, 30	0600107	0.01 $\mu$ F	1B, C, 1C
C31, 32	0600397	0.039 $\mu$ F	2C, 1C
C33	0620561	50 $\mu$ F	1C
C34	0600276	0.0027 $\mu$ F	1C
C35, 36	0515339	3.3 $\mu$ F 50V E.C.	2C
C37, 38	0515339	3.3 $\mu$ F	2C
C601	0600396	0.0039 $\mu$ F	1C
C602	0600107	0.01 $\mu$ F	1, 2A
C603	0515339	3.3 $\mu$ F 50V E.C.	2A
C604	0519102	3.3 $\mu$ F	2A
C605	0519102	3.3 $\mu$ F	2A
C606	0511101	100 $\mu$ F	1B
C607	0511470	47 $\mu$ F	1B
C608	0511101	100 $\mu$ F	1B
C609	0511470	100 $\mu$ F	10V E.C.
C610	0511470	47 $\mu$ F	1A
C611	0511470	47 $\mu$ F	1A
R01	0106473	47 $\Omega$	2A
R02	0107473	47 $\Omega$	1A
R03	0107104	100 $\Omega$	2A
R04	0106104	100 $\Omega$	1A
R05, 06	0106102	1 $\Omega$	2A, 1A
R07, 08	0106222	2.2 $\Omega$	2A, 1A
R09, 10	0106222	2.2 $\Omega$	2A, 1A
R11, 12	0106333	3.3 $\Omega$	1, 2A, 1A
R13, 14	0106104	100 $\Omega$	1A
R15, 16	0106102	2.2 $\Omega$	1A
R17, 18	0106222	2.2 $\Omega$	1A
R19, 20	0106223	2.2 $\Omega$	1A
R21, 22	0106683	68 $\Omega$	1A, 1B
R23	0106473	27 $\Omega$	1B
R24	0106473	27 $\Omega$	1B
R25	0107223	22 $\Omega$	1B
R26	0106473	27 $\Omega$	1B
R27	0106473	27 $\Omega$	1B
R28	0106223	22 $\Omega$	1B
R29	0107153	15 $\Omega$	2B
R30	0106153	15 $\Omega$	2B
R31	0106153	15 $\Omega$	2B
R32	0106153	15 $\Omega$	2B
R33	0106101	100 $\Omega$	1A, B
R34	0106101	100 $\Omega$	1A, B
R35	0106101	100 $\Omega$	1A, B
R36	0106101	100 $\Omega$	1A, B
R37	0107152	15 $\Omega$	2A, B
R38	0106152	15 $\Omega$	2B
R39, 40	0106104	100 $\Omega$	1A, B
R41, 42	0106273	27 $\Omega$	1A, B
R43, 44	0106273	27 $\Omega$	1A, B
R45, 46	0106224	22 $\Omega$	2B, C, 1B
R47, 48	0106224	22 $\Omega$	2B, C, 1B, C
R49, 50	0106224	22 $\Omega$	1B, C
R51, 52	0106224	22 $\Omega$	1B, C
R53, 54	0106272	27 $\Omega$	1C
R55, 56	0106272	27 $\Omega$	1C
R57, 58	0106272	27 $\Omega$	1C
R59, 60	0106272	27 $\Omega$	2C, 1C
R61, 62	0106333	33 $\Omega$	2C, 1C



Parts No.	Stock No.	Description	Position
R63, 64	0106533	33 $\Omega$	1C
R65, 66	0106472	47 $\Omega$	2C, 1C
R67, 68	0106472	47 $\Omega$	2C, 1C
R69, 70	0106104	100 $\Omega$	2C
R71, 72	0106104	100 $\Omega$	2C
R601	0106152	15 $\Omega$	1A
R602	0106152	15 $\Omega$	1A
R603	0106582	68 $\Omega$	1A
R604	0106683	68 $\Omega$	1, 2A
R605	0106183	18 $\Omega$	2A
R606	0106224	22 $\Omega$	2A
R607	0106154	15 $\Omega$	2A
R608	0106182	18 $\Omega$	2A
R609	0106153	15 $\Omega$	2A
R610	0107223	22 $\Omega$	2A
R611	0107822	82 $\Omega$	2A
R612	0106104	100 $\Omega$	2B
R613	0106152	15 $\Omega$	2B

# 6-10. F-2088 QS Phase Control Circuit Board (Stock No. 7650270 Complete Circuit Board F-2088) Conductor Side



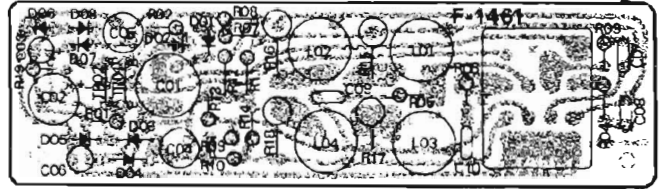
## Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
IC01	0360090-1	HA1327	1 A	C23	0515109	1 $\mu$ F	1 C
IC02	0360090-1	HA1327	1 A	C24	0515109	1 $\mu$ F	1 C
IC601	3600100	HD3103(B)	1, 2 C	C25	0600567	0.056 $\mu$ F	1 B
D01	0311160	1S2473D	1, 2 B	C26	0600567	0.056 $\mu$ F	1 B
D02	0311160	1S2473D	1 B	C27	0600567	0.056 $\mu$ F	1 C
D03	0311160	1S2473D	1 C	C28	0600567	0.056 $\mu$ F	1 C
D04	0311160	1S2473D	1 C	C29	0600107	0.01 $\mu$ F	1 B
D05	0311160	1S2473D	1 B	C30	0600107	0.01 $\mu$ F	1 B
D06	0311160	1S2473D	1, 2 B	C31	0600337	0.033 $\mu$ F	1 C
VR01	1035490	1M $\Omega$ (B)	1 B	C32	0600337	0.033 $\mu$ F	50V M.C.
VR02	1035490	1M $\Omega$ (B)	1 B	C33	0600226	0.0022 $\mu$ F	2 B C
VR03	1035490	1M $\Omega$ (B)	1 C	C34	0600226	0.0022 $\mu$ F	1 C
VR04	1035490	1M $\Omega$ (B)	1 C	C35	0600226	0.0022 $\mu$ F	1 C
C01	0600106	0.00 $\mu$ F	2 A	C36	0600226	0.0022 $\mu$ F	2 C
C02	0600106	0.00 $\mu$ F	2 A	C37	0600187	0.018 $\mu$ F	2 C
C03	0620331	33 pF	2 A	C38	0600187	0.018 $\mu$ F	2 C
C04	0620331	33 pF	2 B	C39	0519102	2.2 $\mu$ F	2 C
C05	0600396	0.0039 $\mu$ F	1 A	C40	0519102	2.2 $\mu$ F	50V E.C. (BRN)
C06	0600396	0.0039 $\mu$ F	2 A	C601	0660101	100 pF	50V C.C.
C07	0620681	680 pF	2 A	C602	0600337	0.033 $\mu$ F	2 A
C08	0620681	680 pF	2 A	C603	0600337	0.033 $\mu$ F	50V M.C.
C09	0620681	680 pF	2 A	C604	0620471	470 pF	50V P.C.
C10	0620681	680 pF	1 A	C605	0600687	0.068 $\mu$ F	2 A
C11	0513479	4.7 $\mu$ F	1 A	C606	0600687	0.068 $\mu$ F	50V M.C.
C12	0513479	4.7 $\mu$ F	1 A	C607	0620471	470 pF	2 A
C13	0513479	4.7 $\mu$ F	2 B	C608	0620471	470 pF	50V P.C.
C14	0513479	4.7 $\mu$ F	1 A	C609	0513330	33 $\mu$ F	1, 2 C
C15	0513479	4.7 $\mu$ F	1 A	C610	0513330	33 $\mu$ F	2 C
C16	0513479	4.7 $\mu$ F	1 A	C611	0660151	150 pF	50V C.C.
C17	0513479	4.7 $\mu$ F	1, 2 B	C612	0519102	2.2 $\mu$ F	50V E.C. (E.I.R)
C18	0513479	4.7 $\mu$ F	1 A	C613	0513100	10 $\mu$ F	25V E.C.
C19	0513330	33 $\mu$ F	1 A	R01	0106224	220k $\Omega$	2 A
C20	0513330	33 $\mu$ F	2 B	R02	0106224	220k $\Omega$	2 B
C21	0600687	0.068 $\mu$ F	1 A	R03	0106684	680k $\Omega$	1, 2 A
C22	0600687	0.068 $\mu$ F	1 B	R04	0106684	680k $\Omega$	2 B
				R05	0106334	330k $\Omega$	2 A
				R06	0106334	330k $\Omega$	2 B
				R07	0107684	680k $\Omega$	1/4 W C.R.

## 6-11. F-1461A Protector Circuit Board

(Stock No. 7592220 Complete Circuit Board F-1461A)

### Conductor Side



### Parts List

Parts No.	Stock No.	Description	Position
R08	0106684	680k $\Omega$	2B
R09	0106274	270k $\Omega$	1A
R10	0106274	270k $\Omega$	1A
R11	0106334	330k $\Omega$	1, 2B
R12	0106334	330k $\Omega$	1A
R13	0106124	120k $\Omega$	1A
R14	0106124	120k $\Omega$ } $\frac{1}{4}$ W C.R. (E.L.R)	1A
R15	0106124	120k $\Omega$	1B
R16	0106124	120k $\Omega$	1A
R17	0106334	330k $\Omega$	1B
R18	0106334	330k $\Omega$	1A
R19	0106394	390k $\Omega$	1A
R20	0106394	390k $\Omega$	1A
R21	0106124	120k $\Omega$	1B
R22	0106124	120k $\Omega$ } $\frac{1}{4}$ W C.R. (E.L.R)	1A, B
R23	0106124	120k $\Omega$	1B
R24	0107124	120k $\Omega$	1B
R25	0107124	120k $\Omega$	1B
R26	0107124	120k $\Omega$	1B
R27	0107563	56k $\Omega$ } $\frac{1}{4}$ W C.R.	1B
R28	0107563	56k $\Omega$	1B
R29	0107563	56k $\Omega$	1C
R30	0107563	56k $\Omega$	1C
R31	0106563	56k $\Omega$	1C
R32	0106563	56k $\Omega$	1C
R33	0106474	470k $\Omega$ } $\frac{1}{4}$ W C.R. (E.L.R)	2B
R34	0106474	470k $\Omega$	2B
R35	0106564	560k $\Omega$	2B
R36	0106564	560k $\Omega$	2B
R37	0113225	2.2M $\Omega$	1B
R38	0113225	2.2M $\Omega$	1B
R39	0113155	1.5M $\Omega$ } $\frac{1}{4}$ W S.R.	1C
R40	0113155	1.5M $\Omega$	1C
R41	0106334	330k $\Omega$ } $\frac{1}{4}$ W C.R. (E.L.R)	1C
R42	0107334	330k $\Omega$ } $\frac{1}{4}$ W C.R.	1, 2C
R43	0106105	1M $\Omega$	2B
R44	0106105	1M $\Omega$ } $\frac{1}{4}$ W C.R. (E.L.R)	1B, C
R45	0106105	1M $\Omega$	1C
R46	0107105	1M $\Omega$ } $\frac{1}{4}$ W C.R.	2C
R47	0106104	100k $\Omega$	2B
R48	0106104	100k $\Omega$	1B, C
R49	0106104	100k $\Omega$	.2C
R50	0106104	100k $\Omega$ } $\frac{1}{4}$ W C.R. (E.L.R)	2C
R51	0106123	12k $\Omega$	2B, C
R52	0106123	12k $\Omega$	2C
R53	0106153	15k $\Omega$	2C
R54	0106153	15k $\Omega$	2C
R55	0106561	560 $\Omega$	2C
R56	0106561	560 $\Omega$	2C
R57	0106333	33k $\Omega$	2C
R58	0106333	33k $\Omega$	2C
R601	0106224	220k $\Omega$	2A
R603	0106682	6.8k $\Omega$	2A
R604	0106682	6.8k $\Omega$	2A
R605	0106333	33k $\Omega$ } $\frac{1}{4}$ W C.R. (E.L.R)	2A
R606	0106682	6.8k $\Omega$	2A
R607	0106682	6.8k $\Omega$	2A
R608	0106683	68k $\Omega$	2A
R609	0106683	68k $\Omega$	2A
R610	0106472	4.7k $\Omega$	1C
R611	0106272	2.7k $\Omega$	1C
R612	0106223	22k $\Omega$	2C
R613	0106103	10k $\Omega$	1, 2C
R614	0107272	2.7k $\Omega$ } $\frac{1}{4}$ W C.R.	2C
R615	0107104	100k $\Omega$	2B

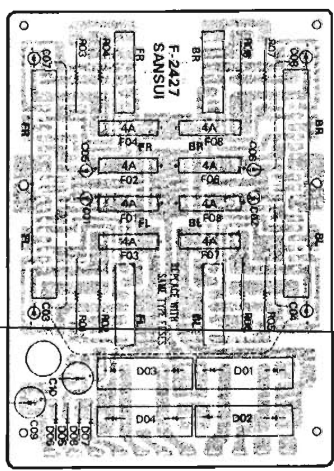
Parts No.	Stock No.	Description
TR01	0306132, 3	2SC1364 (7, 8) } Transistor
TR02	0306132, 3	2SC1364 (7, 8) }
D01	0310340	10D-1 } Diode
D02	0310340	10D-1 }
D03	0310400	1N34A }
D04	0310400	1N34A }
D05	0310400	1N34A }
D06	0310400	1N34A }
D07	0310400	1N34A }
D08	0310400	1N34A }
L01	4290210	2.5 $\mu$ H Inductor Coil
L02	4290210	2.5 $\mu$ H Inductor Coil
L03	4290210	2.5 $\mu$ H Inductor Coil
L04	4290210	2.5 $\mu$ H Inductor Coil
RL601	1150101	MY4-00S-S4 Relay
C01	0515330	33 $\mu$ F 50V E.C.
C02	0510471	470 $\mu$ F 6.3V E.C.
C03	0515109	1 $\mu$ F 50V E.C.
C04	0530470	47 $\mu$ F } 6.3V BP.E.C.
C05	0530470	47 $\mu$ F }
C06	0535109	1 $\mu$ F 50V BP.E.C.
C07	0601108	0.1 $\mu$ F } 50V M.C.
C08	0601108	0.1 $\mu$ F }
C09	0601108	0.1 $\mu$ F }
C10	0601108	0.1 $\mu$ F }
R01	0106100	10 $\Omega$ } $\frac{1}{4}$ W C.R. (E.L.R)
R03	0111100	10 $\Omega$ }
R04	0111100	10 $\Omega$ } $\frac{1}{2}$ W C.R.
R05	0111100	10 $\Omega$ }
R06	0111100	10 $\Omega$ }
R07	0106473	47k $\Omega$ } $\frac{1}{4}$ W C.R. (E.L.R)
R08	0106473	47k $\Omega$ }
R09	0106473	47k $\Omega$ }
R10	0106473	47k $\Omega$ }
R11	0106332	3.3k $\Omega$ }
R12	0106332	3.3k $\Omega$ }
R13	0106332	3.3k $\Omega$ }
R14	0106332	3.3k $\Omega$ }
R15	0111689	68 $\Omega$ } $\frac{1}{2}$ W C.R.
R16	0111689	68 $\Omega$ }
R17	0111689	68 $\Omega$ }
R18	0111689	68 $\Omega$ }
R19	0106562	5.6k $\Omega$ } $\frac{1}{4}$ W C.R.

### Abbreviations

C.R.	: Carbon Resistor	BP.E.C.:	Bi-Polar Electrolytic Capacitor
S.R.	: Solid Resistor	C.C.	: Ceramic capacitor
Ce.R.	: Cement Resistor	Mi.C.	: Mica Capacitor
M.R.	: Metallized Film Resistor	O.C.	: Oil Capacitor
M.C.	: Mylar Capacitor	P.C.	: Polystyrene Capacitor
E.C.	: Electrolytic Capacitor	T.C.	: Tantalum Capacitor

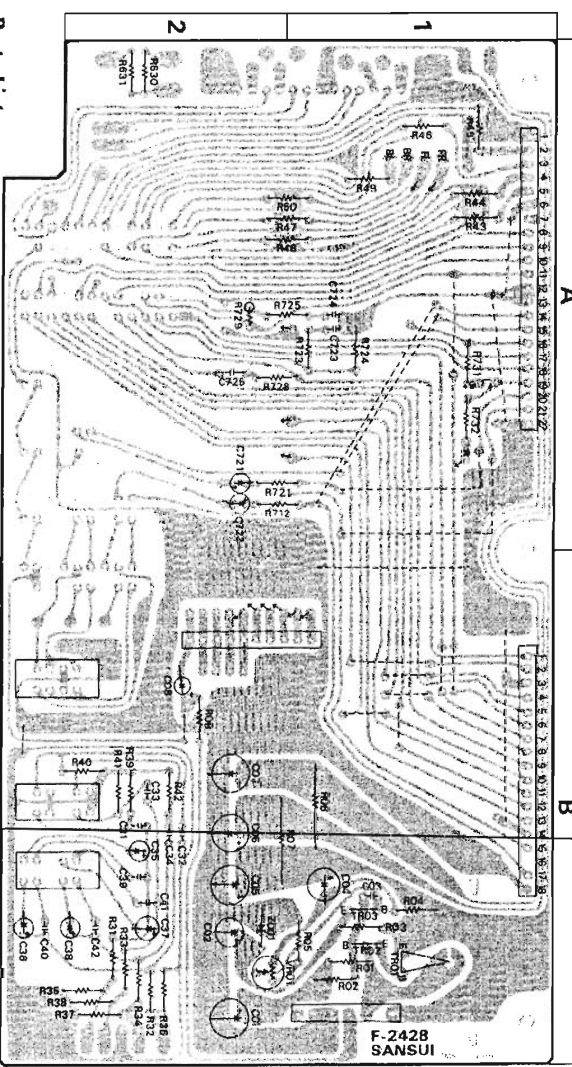


6-12. F-2427 Power Circuit Board  
(Stock No. 7500930 Complete Circuit Board F-2427)  
Conductor Side



Parts No.	Stock No.	Description
D01	0311310	SS-5
D02	0311320	SS-5R
D03	0311310	SS-5
D04	0311320	SS-5R
D05	0310340	100D-1 Diode
D06	0310340	100D-1
D07	0310340	100D-1
D08	0310340	100D-1
C01	0515109	1µF
C02	0515109	1µF
C03	0515109	1µF
C04	0515109	1µF
C05	0515109	1µF
C06	0515109	1µF
C07	0515109	1µF
C08	0515109	1µF
C09	0511471	470µF 10V E.C.
C10	0511471	470µF 10V E.C.
C901	0659011	0.01µF 500V C.C.
C902	0659011	0.01µF
R01	0133338	0.33Ω
R02	0133338	0.33Ω
R03	0133338	0.33Ω
R04	0133338	0.33Ω
R05	0133338	0.33Ω
R06	0133338	0.33Ω
R07	0133338	0.33Ω
R08	0133338	0.33Ω
F01	0433630	4A
F02	0433630	4A
F03	0433630	4A
F04	0433630	4A
F05	0433630	4A
F06	0433630	4A
F07	0433630	4A
F08	0433630	4A

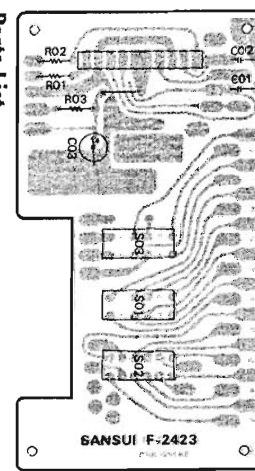
6-13. F-2428 Filter & Power Supply Circuit Board (Stock No. 7592210 Complete Circuit Board F-2428)  
Conductor Side



Parts No.	Stock No.	Description	Position
TR01	0355830-1	2SC1111 (R.O.)	1 B
TR02	0355930-2	2SC1211 (C.D.E.)	1 B
TR03	0306130-2	2SC1364 (5.6.7)	1 B
ZD01	0315750	EQA-01-06R	2 B
C01	0515101	100µF 50V E.C.	2 B
C02	0511101	100µF 10V E.C.	2 B
C03	0669008	0.001µF 50V C.C.	1 B
C04	0515470	47µF 50V E.C.	1 B
C05	0515101	100µF 50V E.C.	2 B
C06	0513221	220µF 25V E.C.	2 B
C07	0513221	220µF	2 B
C08	0601586	0.0058µF	2 B
C09	0601586	0.0058µF	2 B
C10	0601586	0.0058µF	2 B
C11	0601586	0.0058µF	2 B
C12	0601586	0.0058µF	2 B
C13	0601586	0.0058µF	2 B
C14	0601586	0.0058µF	2 B
C15	0601586	0.0058µF	2 B
C16	0519101	1µF	2 B
C17	0519101	1µF	2 B
C18	0519101	1µF	2 B
C19	0519101	1µF	2 B
C20	0519101	1µF	2 B
C21	0519101	1µF	2 B
C22	0513100	10µF 25V E.C.	2 A
C23	0513100	10µF	2 A
C24	0600157	0.015µF 50V M.C.	2 B
C25	0600157	0.015µF	2 B
C26	0601157	0.0115µF 50V M.C.	2 B
C27	0601157	0.0115µF	2 B
C28	0601157	0.0115µF	2 B
C29	0601157	0.0115µF	2 B
C30	0601157	0.0115µF	2 B
C31	0601157	0.0115µF	2 B
C32	0601157	0.0115µF	2 B
C33	0601157	0.0115µF	2 B
C34	0601157	0.0115µF	2 B
C35	0601157	0.0115µF	2 B
C36	0601157	0.0115µF	2 B
C37	0601157	0.0115µF	2 B
C38	0601157	0.0115µF	2 B
C39	0601157	0.0115µF	2 B
C40	0601157	0.0115µF	2 B
R01	0107472	4.7kΩ 1/4W C.R.	1 B
R02	0107472	4.7kΩ	1 B
R03	0107562	5.6kΩ	1 B

Parts No.	Stock No.	Description	Position
R04	0107223	22kΩ	1 B
R05	0107122	1.2kΩ	1 B
R06	0182181	180Ω	1 B
R07	0182151	150Ω	1 B
R08	0107103	10kΩ	2 B
R09	0107103	10kΩ	2 B
R10	0107224	220kΩ	2 B
R11	0107224	220kΩ	2 B
R12	0107224	220kΩ	2 B
R13	0107224	220kΩ	2 B
R14	0107224	220kΩ	2 B
R15	0107101	100Ω	1 A
R16	0107101	100Ω	1 A
R17	0107101	100Ω	1 A
R18	0107101	100Ω	1 A
R19	0107101	100Ω	1 A
R20	0107101	100Ω	1 A
R21	0107102	8.2kΩ	1.2 A
R22	0107102	8.2kΩ	1.2 A
R23	0107562	5.6kΩ	1.2 A
R24	0107392	3.9kΩ	1 A
R25	0107681	680Ω	1 A
R26	0107471	4.7kΩ	1.2 A
R27	0107182	1.8kΩ	1.2 A
R28	0107182	1.8kΩ	1.2 A
R29	0107121	1.2kΩ	1.2 A
R30	0107563	5.6kΩ	2 A
R31	0107563	5.6kΩ	2 A
R32	0107563	5.6kΩ	2 A
R33	0107563	5.6kΩ	2 A
R34	0107563	5.6kΩ	2 A
R35	0107563	5.6kΩ	2 A
R36	0107563	5.6kΩ	2 A
R37	0107563	5.6kΩ	2 A
R38	0107563	5.6kΩ	2 A
R39	0107563	5.6kΩ	2 A
R40	0107563	5.6kΩ	2 A
R41	0107563	5.6kΩ	2 A
R42	0107563	5.6kΩ	2 A
R43	0107563	5.6kΩ	2 A
R44	0107563	5.6kΩ	2 A
R45	0107563	5.6kΩ	2 A
R46	0107563	5.6kΩ	2 A
R47	0107563	5.6kΩ	2 A
R48	0107563	5.6kΩ	2 A
R49	0107563	5.6kΩ	2 A
R50	0107563	5.6kΩ	2 A
R51	0107563	5.6kΩ	2 A
R52	0107563	5.6kΩ	2 A
R53	0107563	5.6kΩ	2 A
R54	0107563	5.6kΩ	2 A
R55	0107563	5.6kΩ	2 A
R56	0107563	5.6kΩ	2 A
R57	0107563	5.6kΩ	2 A
R58	0107563	5.6kΩ	2 A
R59	0107563	5.6kΩ	2 A
R60	0107563	5.6kΩ	2 A
R61	0107563	5.6kΩ	2 A
R62	0107563	5.6kΩ	2 A
R63	0107563	5.6kΩ	2 A
R64	0107563	5.6kΩ	2 A
R65	0107563	5.6kΩ	2 A
R66	0107563	5.6kΩ	2 A
R67	0107563	5.6kΩ	2 A
R68	0107563	5.6kΩ	2 A
R69	0107563	5.6kΩ	2 A
R70	0107563	5.6kΩ	2 A
R71	0107563	5.6kΩ	2 A
R72	0107563	5.6kΩ	2 A
R73	0107563	5.6kΩ	2 A
R74	0107563	5.6kΩ	2 A
R75	0107563	5.6kΩ	2 A
R76	0107563	5.6kΩ	2 A
R77	0107563	5.6kΩ	2 A
R78	0107563	5.6kΩ	2 A
R79	0107563	5.6kΩ	2 A
R80	0107563	5.6kΩ	2 A
R81	0107563	5.6kΩ	2 A
R82	0107563	5.6kΩ	2 A
R83	0107563	5.6kΩ	2 A
R84	0107563	5.6kΩ	2 A
R85	0107563	5.6kΩ	2 A
R86	0107563	5.6kΩ	2 A
R87	0107563	5.6kΩ	2 A
R88	0107563	5.6kΩ	2 A
R89	0107563	5.6kΩ	2 A
R90	0107563	5.6kΩ	2 A
R91	0107563	5.6kΩ	2 A
R92	0107563	5.6kΩ	2 A
R93	0107563	5.6kΩ	2 A
R94	0107563	5.6kΩ	2 A
R95	0107563	5.6kΩ	2 A
R96	0107563	5.6kΩ	2 A
R97	0107563	5.6kΩ	2 A
R98	0107563	5.6kΩ	2 A
R99	0107563	5.6kΩ	2 A
R100	0107563	5.6kΩ	2 A

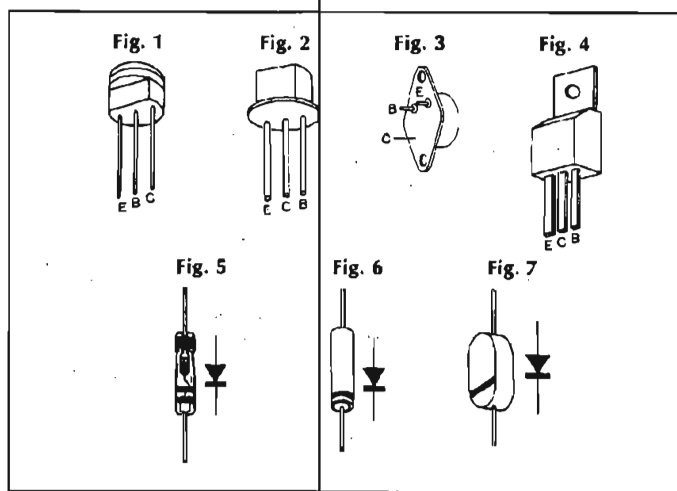
6-14. F-2423 Filter & Switch Circuit Board  
Conductor Side



Parts No.	Stock No.	Description
C01	0657473	0.047µF 50V C.C.
C02	0657473	0.047µF
C03	0515101	100µF 50V E.C.
C04	0650221	220pF 50V C.C.
C05	0650221	220pF
C06	0650221	220pF
C07	0650221	220pF
C08	0650221	220pF
C09	0650221	220pF
C10	0650221	220pF
C11	0650221	220pF
C12	0650221	220pF
C13	0650221	220pF
C14	0650221	220pF
C15	0650221	220pF
C16	0650221	220pF
C17	0650221	220pF
C18	0650221	220pF
C19	0650221	220pF
C20	0650221	220pF
C21	0650221	220pF
C22	0650221	220pF
C23	0650221	220pF
C24	0650221	220pF
C25	0650221	220pF
C26	0650221	220pF
C27	0650221	220pF
C28	0650221	220pF
C29	0650221	220pF
C30	0650221	220pF
C31	0650221	220pF
C32	0650221	220pF
C33	0650221	220pF
C34	0650221	220pF
C35	0650221	220pF
C36	0650221	220pF
C37	0650221	220pF
C38	0650221	220pF
C39	0650221	220pF
C40	0650221	220pF
C41	0650221	220pF
C42	0650221	220pF
C43	0650221	220pF
C44	0650221	220pF
C45	0650221	220pF
C46	0650221	220pF
C47	0650221	220pF
C48	0650221	220pF
C49	0650221	220pF
C50	0650221	220pF
C51	0650221	220pF
C52	0650221	220pF
C53	0650221	220pF
C54	0650221	220pF
C55	0650221	220pF
C56	0650221	220pF
C57	0650221	220pF
C58	0650221	220pF
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C75	0650221	220pF
C76	0650221	220pF
C77	0650221	220pF
C78	0650221	220pF
C79	0650221	220pF
C80	0650221	220pF
C81	0650221	220pF
C82	0650221	220pF
C83	0650221	220pF
C84	0650221	220pF
C85	0650221	220pF
C86	0650221	220pF
C87	0650221	220pF
C88	0650221	220pF
C89	0650221	220pF
C90	0650221	220pF
C91	0650221	220pF
C92	0650221	220pF
C93	0650221	220pF
C94	0650221	220pF
C95	0650221	220pF
C96	0650221	220pF
C97	0650221	220pF
C98	0650221	220pF
C99	0650221	220pF
C100	0650221	220pF
C101	0650221	220pF
C102	0650221	220pF
C103	0650221	220pF
C104	0650221	220pF
C105	0650221	220pF
C106	0650221	220pF
C107	0650221	220pF
C108	0650221	220pF
C109	0650221	220pF
C110	0650221	220pF
C111	0650221	220pF
C112	0650221	220pF
C113	0650221	220pF
C114	0650221	220pF
C115	0650221	220pF
C116	0650221	220pF
C117	0650221	220pF
C118	0650221	220pF
C119	0650221	220pF
C120	0650221	220pF
C121	0650221	220pF
C122	0650221	220pF
C123	0650221	220pF

## 6-15. Interchangeability of Transistor and Diode

ORIGINAL		SUBSTITUTES		
Name	Use	Name	Stock No	Figure
25C930	F-1519	25C1047	0305800	1
25C711	F-1507	25C1000	0305880	2
25C1111	F-2428	25C793	0305450	3
25C1211	F-2428	25C1124	0305900	4
25C945	F-2090	25C1000	0305880	2
25C1222	F-2090	25C1000	0305880	2
25C1111	Power	25C793	0305450	3
IN60P	F-1507	IN34A(YEL)	0310401	5
IS2473	F-2088	IS953	0311050	6
10D-1	F-1461	S-1.5-02	0310960	7



## 6-16. Other Parts (Top Side) Parts List

Parts No.	Stock No.	Description
TR701	0305830-2	25C1111 (R, O, Y)
TR702	0305830-2	25C1111 (R, O, Y)
TR703	0305830-2	25C1111 (R, O, Y)
TR704	0305830-2	25C1111 (R, O, Y)
TR705	0305830-2	25C1111 (R, O, Y)
TR706	0305830-2	25C1111 (R, O, Y)
TR707	0305830-2	25C1111 (R, O, Y)
TR708	0305830-2	25C1111 (R, O, Y)
L701	5266041	Holder, Bar Antenna
	4200680	Bar Antenna (ARS-28A)
C703	0559360	10000 $\mu$ F
	0559360	10000 $\mu$ F
C705	0559590	1000 $\mu$ F 63V E.C.
PT01	4002150	Power Transformer
PU01	2410080	Voltage Selector, socket
	2410090	Voltage Selector, plug
	3800020	Power Cord
TS701		F-2426 Protector Circuit Board
	0320110	TS3-85 Thermistor
R01	0107223	22k $\Omega$
R02	0107823	82k $\Omega$

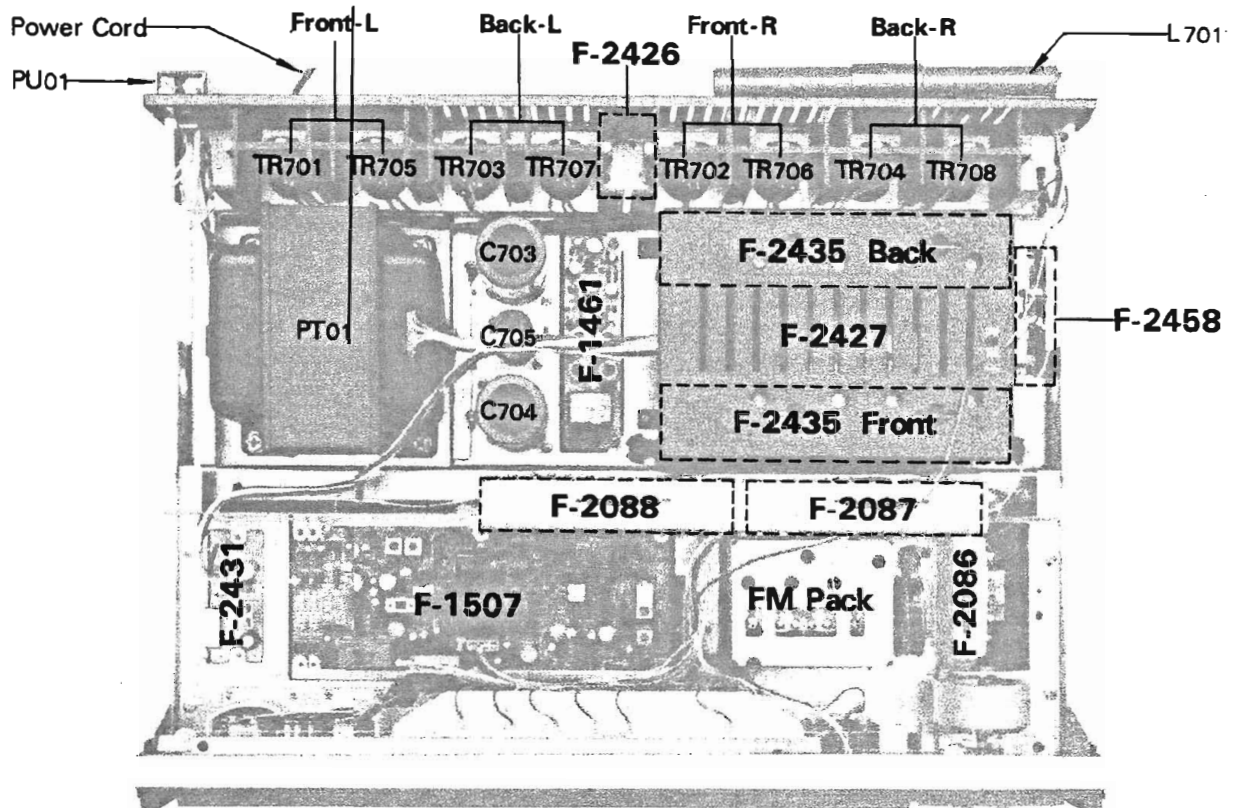
## 6-17. Other Parts (Bottom Side) Parts List

Parts No.	Stock No.	Description
L702	4290021	75 : 300 $\Omega$ FM Balun
C701	0605337	0.033 $\mu$ F
	0605476	0.0047 $\mu$ F
R701	0107122	1.2k $\Omega$ 1/4 W C.R.
R702	0171391	390 $\Omega$
R703	0171391	390 $\Omega$
R704	0171391	390 $\Omega$
R705	0171391	390 $\Omega$
R711	0107224	220k $\Omega$
R712	0107224	220k $\Omega$
R713	0107104	100k $\Omega$
R714	0107104	100k $\Omega$
F701	0431300, 2	7A (100~117V)
	0431270, 2	4A (220~240V)
	2300060	Fuse Holder
CO701	2450060	AC Outlet
CO702	2450060	
	2430040	DIN Connector
	2200350	10P Input Terminal
	2200400	3P Input Terminal
	2210190	Antenna Terminal
	2290100	Speaker Terminal
	2230050	Ground Terminal

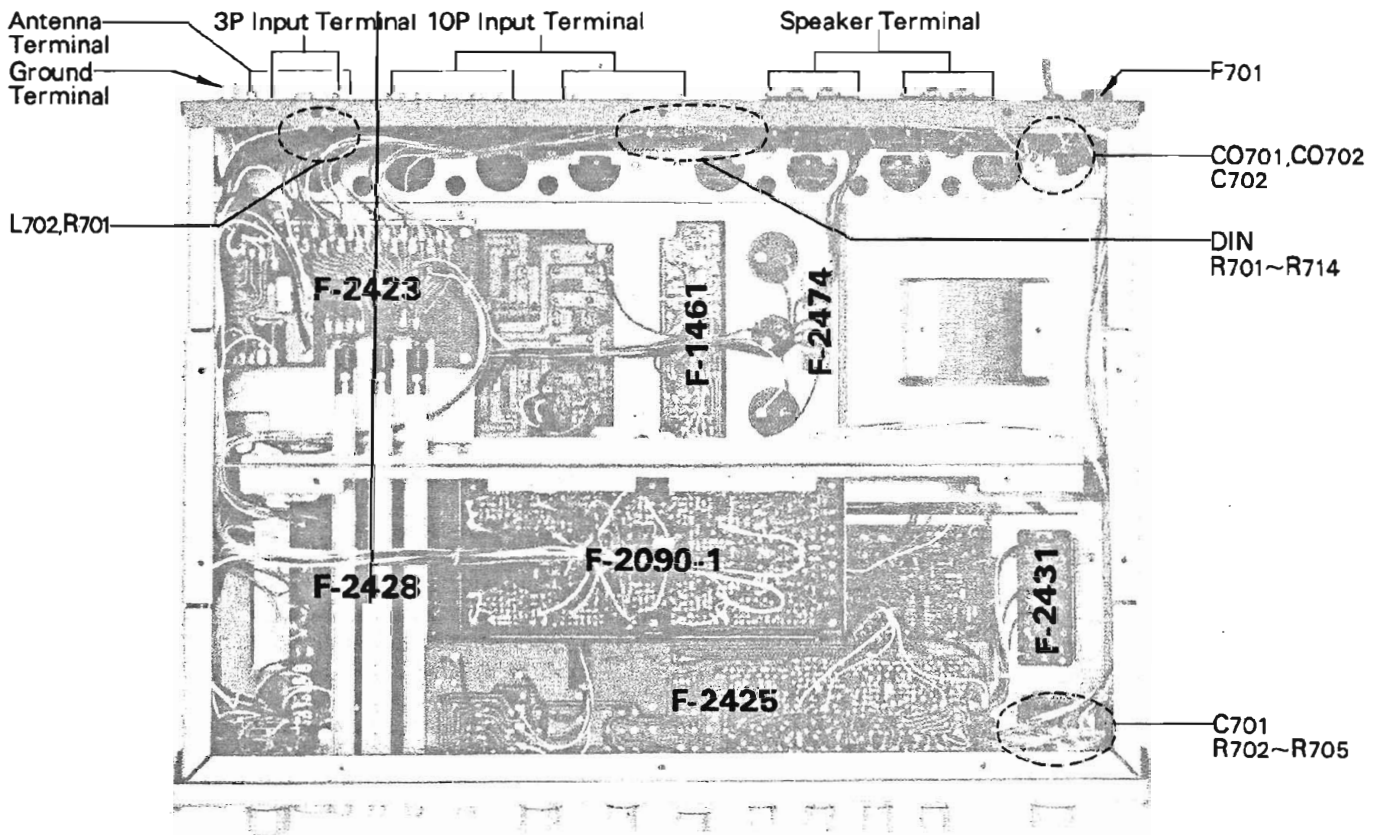
### —Abbreviations—

C.R.	: Carbon Resistor	BP.E.C.:	Bi-Polar Electrolytic Capacitor
S.R.	: Solid Resistor	C.C.	: Ceramic capacitor
Ce.R.	: Cement Resistor	MI.C.	: Mica Capacitor
M.R.	: Metallized Film Resistor	O.C.	: Oil Capacitor
M.C.	: Mylar Capacitor	P.C.	: Polystyrene Capacitor
E.C.	: Electrolytic Capacitor	T.C.	: Tantalum Capacitor

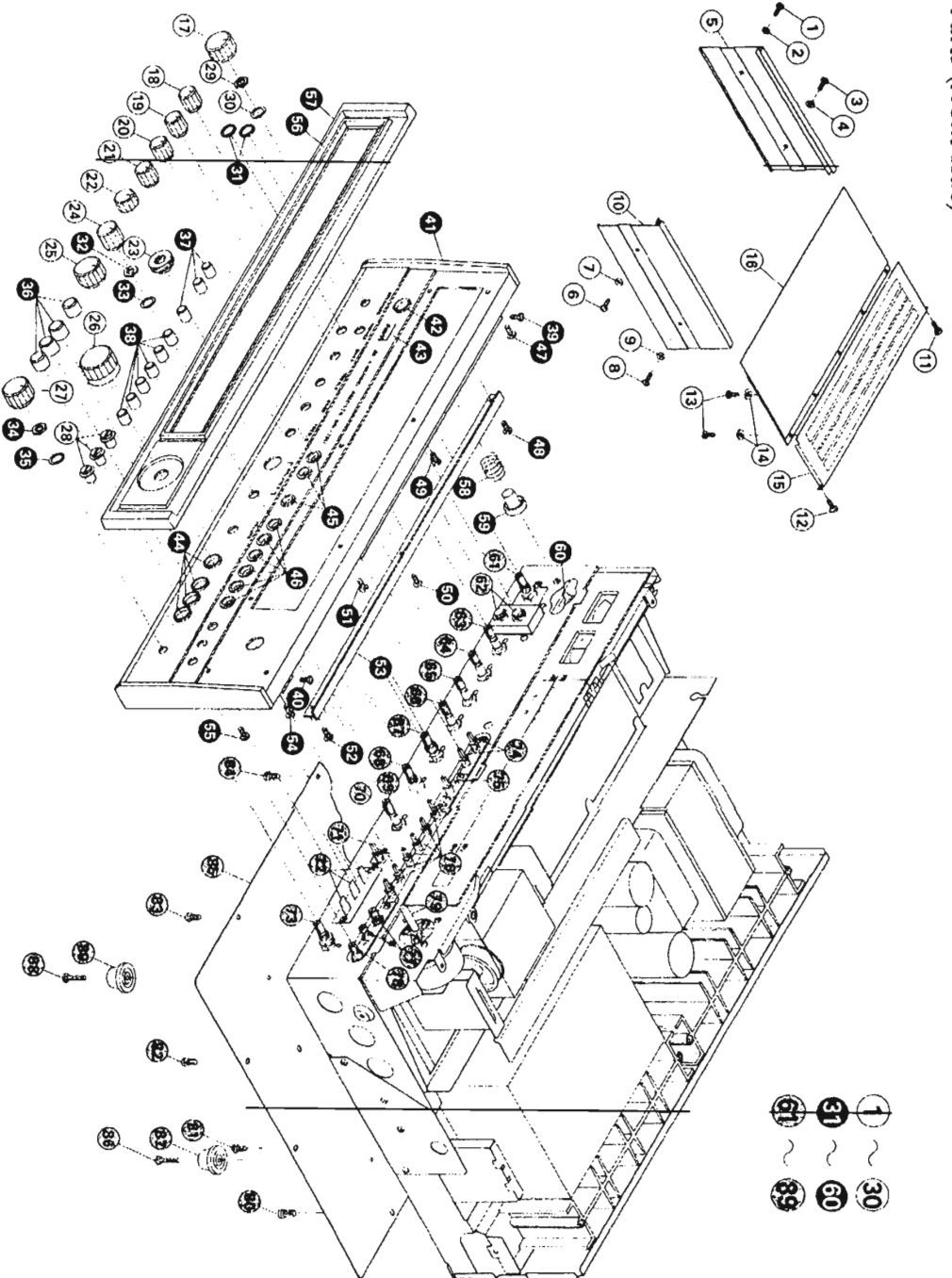
### Top Side



### Bottom Side



6-18. Other Parts (Front Side)



Parts List (Section 1)

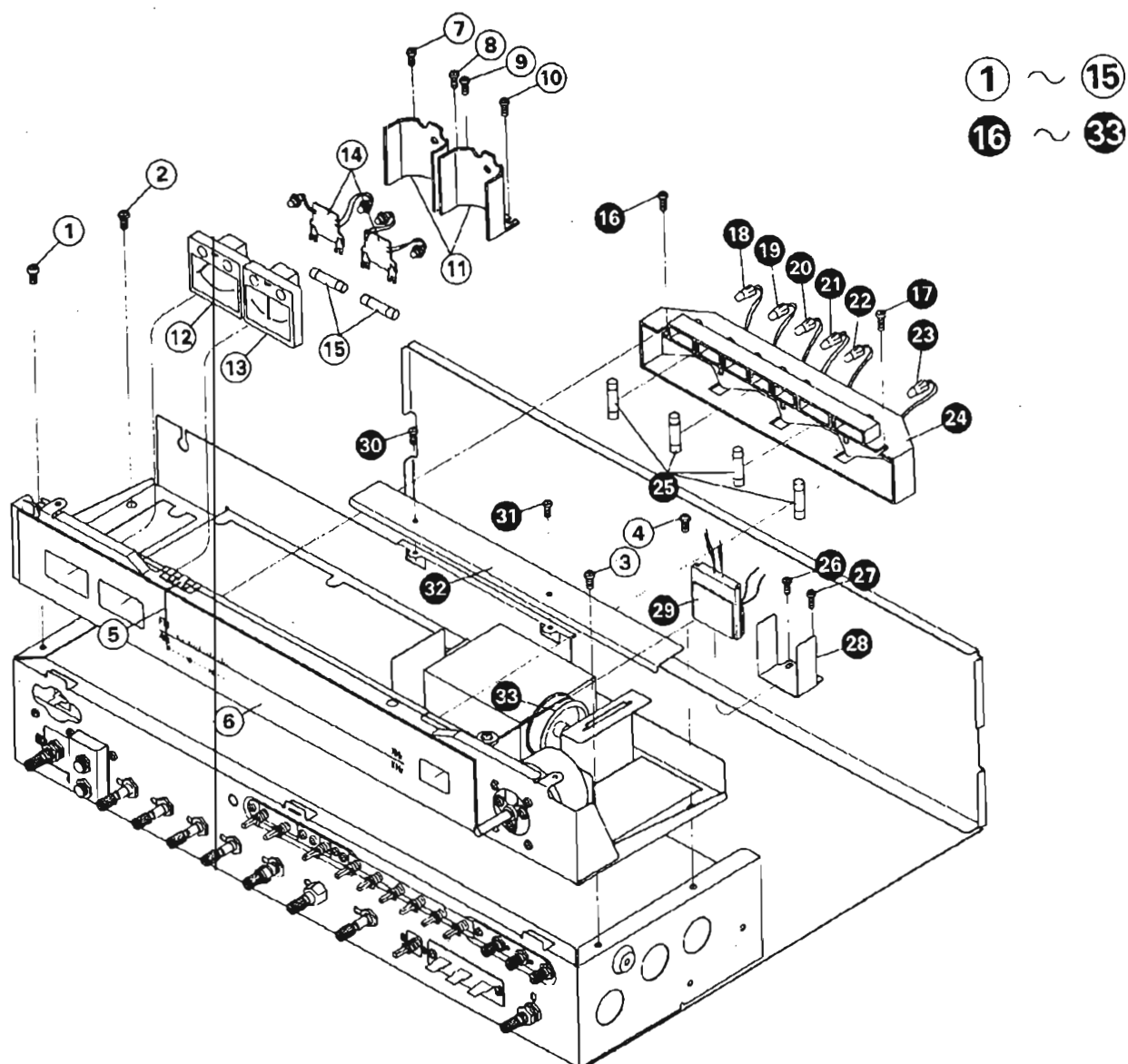
Parts No.	Stock No.	Description
1	5104162	Oval Countersunk Head Screw, M4 X 8
2	5123060	Corrugated Washer, M4 X 8
3	5104162	Oval Countersunk Head Screw, M4 X 8
4	5123060	Corrugated Washer, M4 X 8
5	5309400	Side Panel
6	5104162	Oval Countersunk Head Screw, M4 X 8
7	5123060	Corrugated Washer, M4 X 8
8	5104162	Oval Countersunk Head Screw, M4 X 8
9	5123060	Corrugated Washer, M4 X 8
10	5309400	Side Panel

Parts No.	Stock No.	Description
11	5109222	Binding Head Tapping Screw, 3 X 8
12	5109222	Binding Head Tapping Screw, 3 X 8
13	5101063	Binding Head Screw, M4 X 10
14	5120162	Washer, M4 X 10
15	5058250	Top Cover (Metal)
16	5726880	Top Cover (Wood)
17	5317730	M-3 Type Knob, SPEAKERS
18	5318060	M-8 Type Knob, BASS volume
19	5318060	M-8 Type Knob, TREBLE volume
20	531806C	S-8 Type Knob, BASS volume

Parts No.	Stock No.	Description
21	5318060	S-8 Type Knob, TREBLE volume
22	5317760	W-12 Type Knob, BALANCE volume (Front)
23	5317671	W-11 Type Knob, BALANCE volume (Back)
24	5317740	W-3 Type Knob, BALANCE volume
25	5317730	M-3 Type Knob, VOLUME
26	5318051	T-6 Type Knob, TUNING
27	5317730	M-8 Type Knob, SELECTOR
28	5318030	Knob, CD-4 volume
29	5110781	Hex. Nut, M9
30	5120184	Plain Washer, M9 X 6

Parts No.	Stock No.	Description
31	5176052	Nut, Jack
32	5110781	Hex. Nut, M9
33	5120184	Plain Washer, M9 X 6
34	5110781	Hex. Nut, M9
35	5120184	Plain Washer, M9 X 6
36	5326490	Push Button
37	5326430	Push Button
38	5326430	Push Button
39	5102543	Flat Countersunk Head Screw, M3 X 6
40	5102543	Flat Countersunk Head Screw, M3 X 6
41	7007010	Front Panel Assy
42	5186070	Knob Ring
43	5336500	Mort., Sansui
44	5396190	Knob Ring
45	5396200	Knob Ring
46	5396200	Knob Ring
47	5109122	Binding Head Tapping Screw, 3 X 8
48	5109122	Binding Head Tapping Screw, 3 X 8
49	5109122	Binding Head Tapping Screw, 3 X 8
50	5109122	Binding Head Tapping Screw, 3 X 8
51	5109122	Binding Head Tapping Screw, 3 X 8
52	5109122	Binding Head Tapping Screw, 3 X 8
53	5286010	Stopper, Grass Plate
54	5109122	Binding Head Tapping Screw, 3 X 8
55	5109122	Binding Head Tapping Screw, 3 X 8
56	5047780	Gross Plate
57	5309390	Frame, Gross Plate
58	6906031	Spring, POWER Switch
59	7106083	Push Button, POWER Switch
60	1130350	Push Switch, POWER
61	1102580.1	Rotary Switch Y-2-4+4, SPEAKERS
62	2420000	Headphone Jack
63	1010930.1	100Ω (B) X 2, BASS Volume
64	1010930.1	100Ω (B) X 2, TREBLE Volume
65	1010930.1	100Ω (B) X 2, BASS Volume
66	1010930.1	100Ω (B) X 2, TREBLE Volume
67	1060350.1	250Ω (MN) X 4, BALANCE Volume (Dual Shaft V8)
68	1060350.1	250Ω (MN) X 4, BALANCE Volume
69	5236450	Spacer Nut, M8 X 11.5
70	1060340.1	250Ω (B) X 4, VOLUME
71	1130960	Push Switch, LOUDNESS
72	1130940	Push Switch (3 Stage), TAPE MON. AUX
73	1102600.1	Rotary Switch Y-2-5-4, SELECTOR
74	1130950	Push Switch (2 Stage), LOW, HIGH
75	1130970	Push Switch, FUS BACK
76	1130930	Push Switch (6 Stage), FUNCTION
77	1005180	50K (C), CD-4 SEPARATION Volume
78	1015120	10K (B), CD-4 CARRIER LEVEL volume
79	7036361	Tuning Assy
80	5101161	Binding Head Screw, M4 X 6
81	5101161	Binding Head Screw, M4 X 6
82	5101161	Binding Head Screw, M4 X 6
83	5101161	Binding Head Screw, M4 X 6
84	5101161	Binding Head Screw, M4 X 6
85	5058240	Binding Head Screw, M4 X 6
86	5100665	Binding Head Tapping Screw, 4 X 16
87	5100665	Binding Head Tapping Screw, 4 X 16
88	5100665	Binding Head Tapping Screw, 4 X 16
89	5516821	Foot

## 6-19. Other Parts (Front Side)

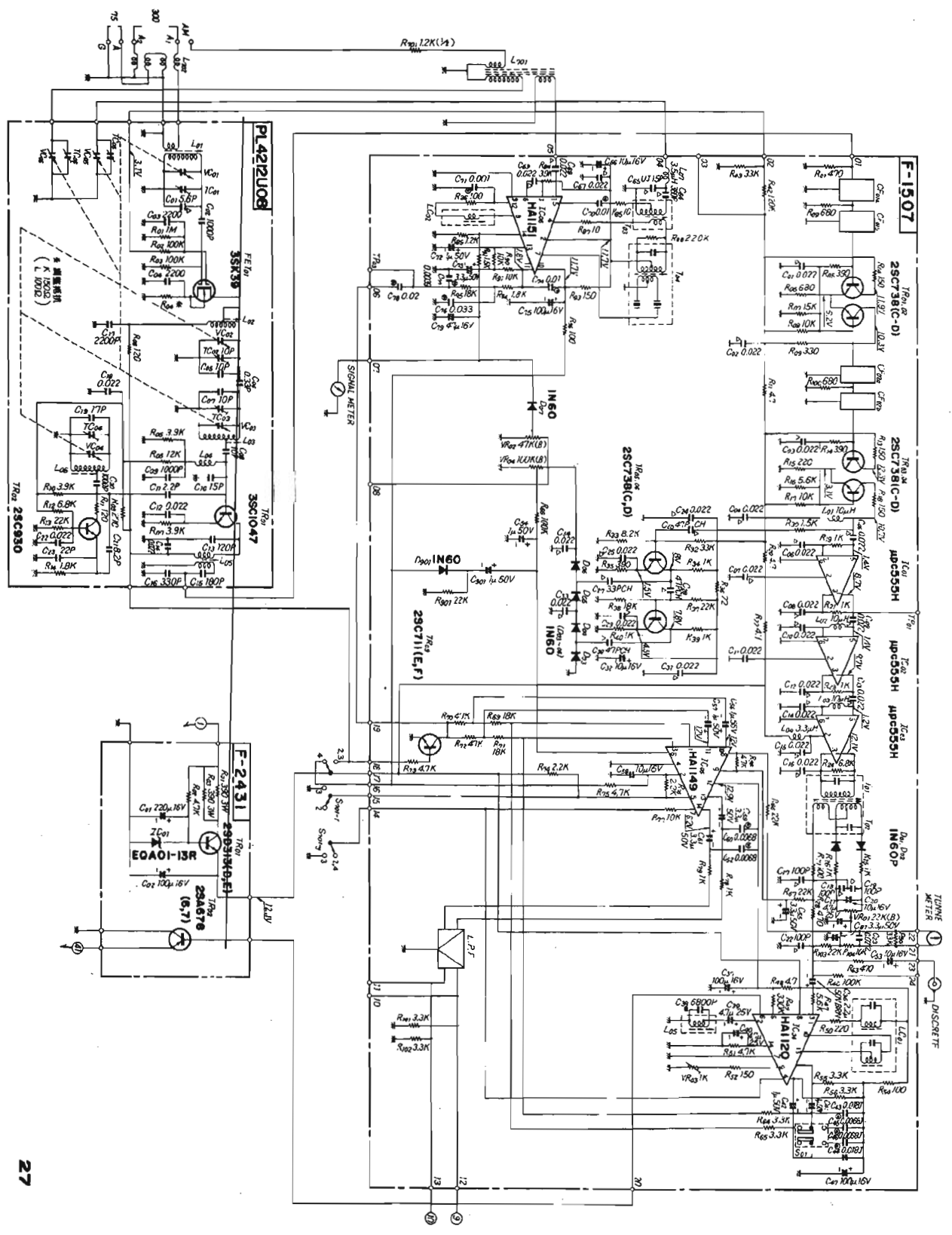


### Parts List (Section 2)

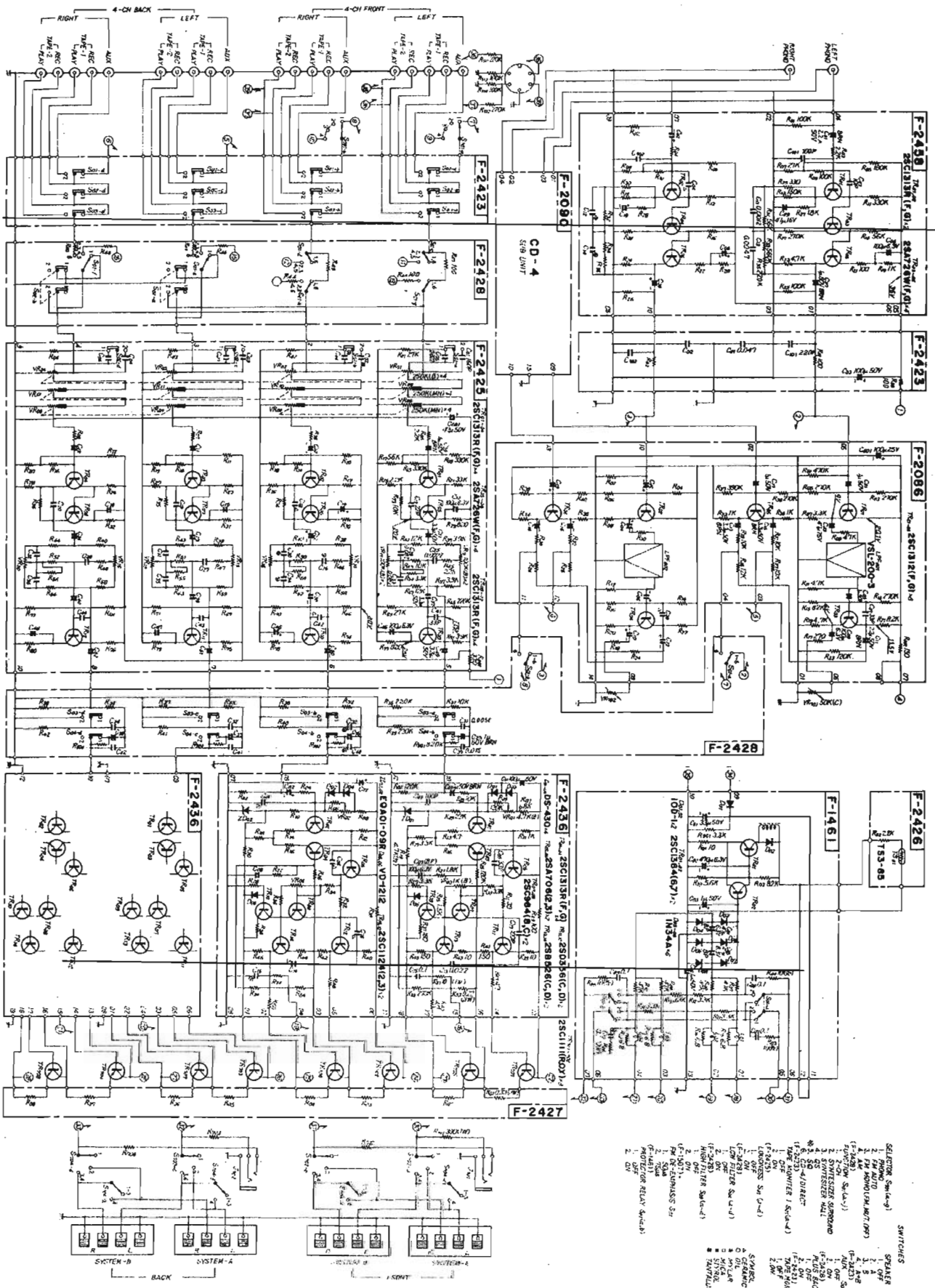
Parts No.	Stock No.	Description
1	5101061	Binding Head Screw, M4×6
2	5101061	Binding Head Screw, M4×6
3	5101061	Binding Head Screw, M4×6
4	5101061	Binding Head Screw, M4×6
5	{5516030	Teflon Sheet
	{5416390	Dial Pointer
6	5407772	Dial Scale
7	5166460	Washer Head Tapping Screw, 3×8
8	5166460	Washer Head Tapping Screw, 3×8
9	5166460	Washer Head Tapping Screw, 3×8
10	5166460	Washer Head Tapping Screw, 3×8
11	5269330	Holder, Meter
12	4300610, 1	SIGNAL Meter
13	4300600, 1	TUNE Meter
14	7726060	Meter Lamp Unit
15	0420040	Fuse Type Lamp (7V 300mA)
16	5166460	Washer Head Tapping Screw, 3×8

Parts No.	Stock No.	Description
17	5166460	Washer Head Tapping Screw, 3×8
18	0400310	Lead Type Lamp (7V 100mA), FM STEREO INDICATOR
19	0400340	Lead Type Lamp (7V 100mA), HALL
20	0400340	Lead Type Lamp (7V 100mA), SURROUND
21	0400340	Lead Type Lamp (7V 100mA), QS
22	0400340	Lead Type Lamp (7V 100mV), ※ SQ
23	0400390	Lead Type Lamp (6V 30mA), CD-4
24	5066211	Illuminator Box
26	5109122	Binding Head Tapping Screw, 3×8
27	5109122	Binding Head Tapping Screw, 3×8
28	5266812	Holder, digital indicator
29	7726110	Digital Indicator
30	5109122	Binding Head Tapping Screw, 3×8
31	5109122	Binding Head Tapping Screw, 3×8
32	5286030	Holder, Driver Circuit Board
33	6146651	Dial Pulley (D44φ)

# 7. SCHEMATIC DIAGRAM OF TUNER SECTION



# 8. SCHEMATIC DIAGRAM OF AUDIO SECTION



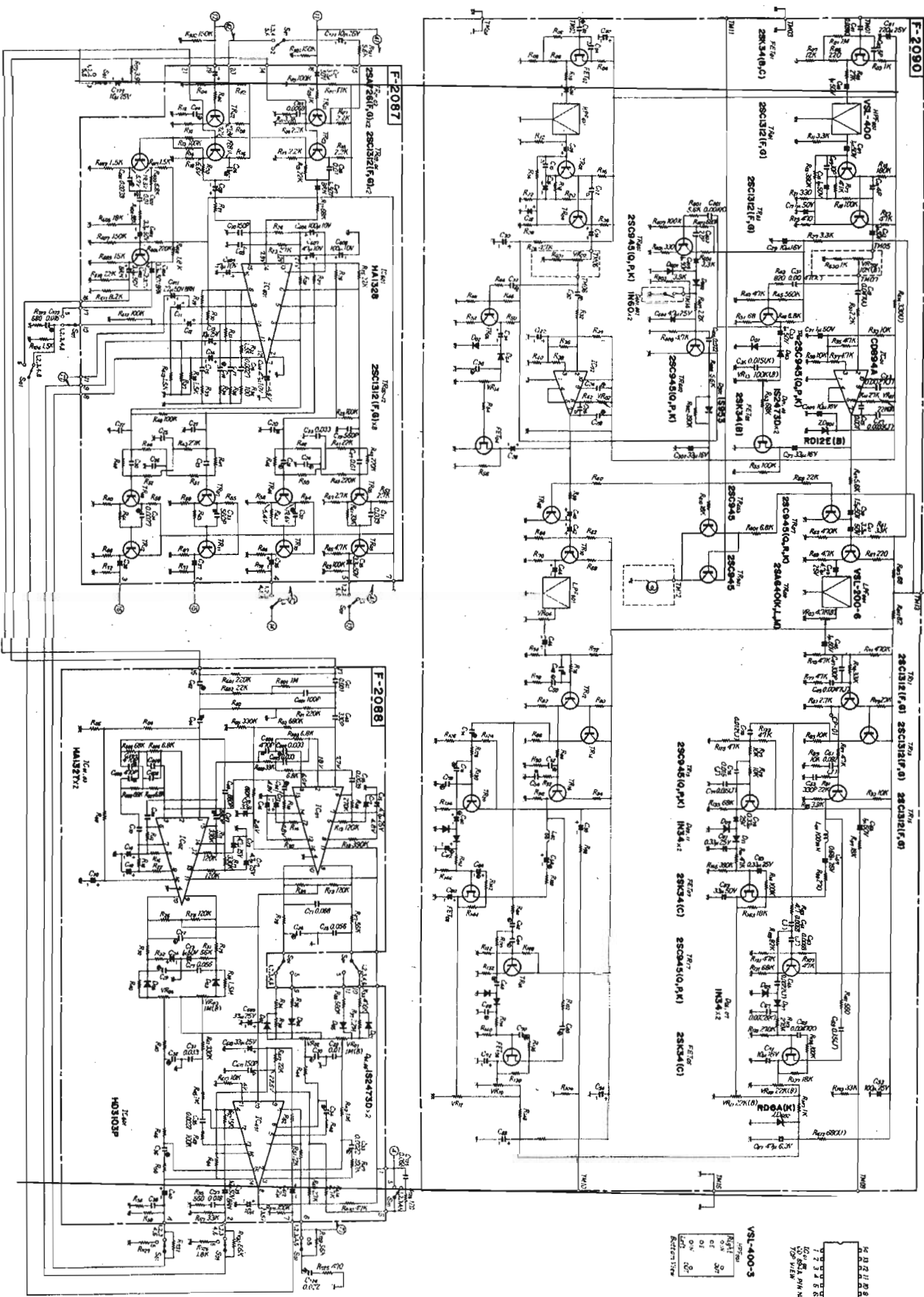
- SWITCHES**
- SELECTOR Sw (a-4)
  - 1. OFF
  - 2. FM AUTO
  - 3. FM MONITOR (MUT. OFF)
  - 4. STEREO
  - 5. STEREO (MONITOR)
  - 6. STEREO (MONITOR) (MUT. OFF)
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  - 100. STEREO (MONITOR) (MUT. OFF)

• Design and specifications subject to change without notice for improvements.



# 9. SCHEMATIC DIAGRAM OF 4-CH SECTION

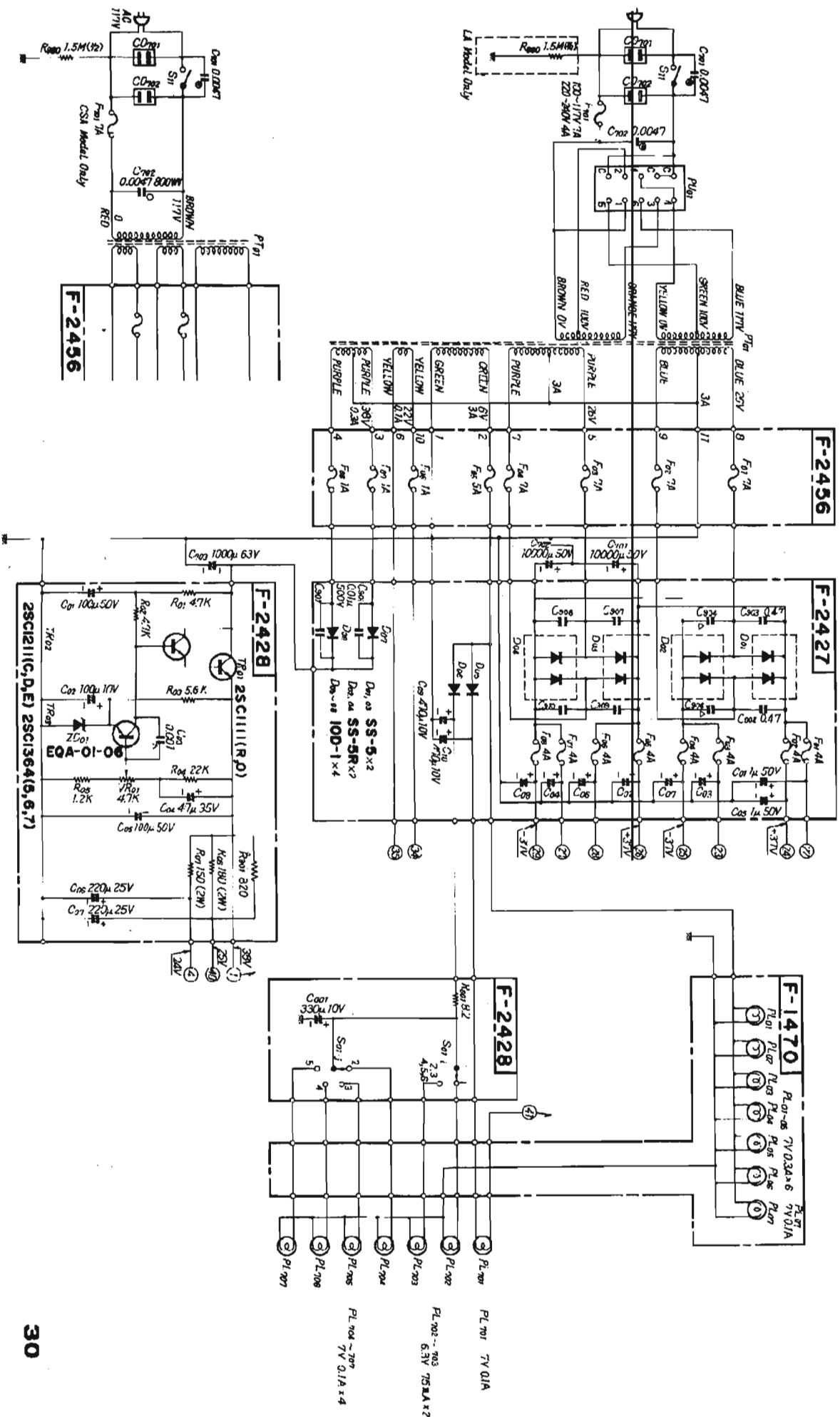
Design and specifications subject to change without notice for improvements.



Part No.	Quantity	Remarks
VSL-400-3	1	Comparator
VSL-200-6	1	Comparator

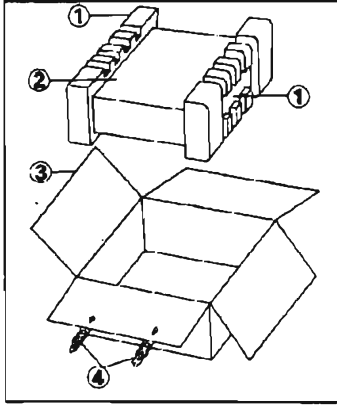


# 10. SCHEMATIC DIAGRAM OF POWER SUPPLY SECTION



## 11. PACKING LIST

Parts No.	Stock No.	Description
1	9027831	Stylofoam Packing
2	9116631	Vinyl Cover
3	9008170	Carton Case
4	5996080	Curl Stopper



## 12. ACCESSORY PARTS LIST

Stock No.	Description
3820091	FM Antenna
0433630	4A 250V Quick Acting Fuse
9208400	Operating Instructions
9228400	Operating Instruction Sheet
9416010	CD-4 Adjustment Record



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