

SERVICE MANUAL

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



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.

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1. SPECIFICATIONS

AUDIO SECTION

CONTINUOUS RMS POWER OUTPUT
 35W per channel × 4
 (four channels driven)

LOAD IMPEDANCE 8Ω

POWER BAND 20 to 20,000Hz

TOTAL HARMONIC DISTORTION
 less than 0.4% (from AUX)

Music power(IHF)..... 280W (4Ω 1,000Hz)
 220W (8Ω 1,000Hz)

Continuous rms power output.. 45W × 4 (8Ω 1,000Hz)
 45W × 2 (two channels driven,
 8Ω 1,000Hz)

INTERMODULATION DISTORTION (at rated power out-
 put 70Hz:7,000Hz=4:1 SMPTE method)
 less than 0.4% (from AUX)

FREQUENCY RESPONSE (at 1 Watt output)
 15 to 30,000Hz ±1dB

EQUALIZATION.....(RIAA curve)
 30 to 15,000Hz ±1dB

DAMPING FACTOR 10 (8Ω)

INPUT SENSITIVITY AND IMPEDANCE (1,000Hz, for rated
 output)

2-CHANNEL PHONO..... 2.5mV 50KΩ
 (max. input capability; more than 150mV
 at 0.5% distortion)

4-CH./2-CH. AUX 100mV 50KΩ

4-CH./2-CH. TAPE-1
 PLAY Pin Jacks 100mV 50KΩ
 REC/PLAY DIN Socket .. 100mV 50KΩ

4-CH./2-CH. TAPE-2
 PLAY Pin Jacks 100mV 50KΩ

RECORDING OUTPUT

4-CH./2-CH. TAPE-1
 REC Pin Jacks 100mV
 REC/PLAY DIN Socket .. 30mV

4-CH./2-CH. TAPE-2
 REC Pin Jacks 100mV

CHANNEL SEPARATION (at 1,000Hz)

2-CH. PHONO better than 50dB

4-CH./2-CH. AUX better than 50dB

HUM AND NOISE (IHF)

2-CH. PHONO better than 70dB

4-CH./2-CH. AUX better than 80dB

SWITCHES AND CONTROLS

BASS +10dB, -10dB, at 50Hz

TREBLE +10dB, -10dB, at 10,000Hz

LOUDNESS +8dB at 50Hz
 +3dB at 10,000Hz

FILTERS

LOW (front & back) -10dB at 50Hz (6dB/oct.)

HIGH (front & back) -10dB at 10,000Hz
 (6dB/oct.)

QS SYNTHESIZER/DECODER
 QS regular matrix system
 with QS Vario-Matrix circuit

CD-4 DEMODULATOR

Input Sensitivity..... 2.5mV (1 to 10mV
 adjustable)

Input Impedance 50KΩ

Separation (standard test signal at 1,000Hz)
 Left to Right 40dB
 Front to Back 25dB

Frequency Response (standard test signal at REC output)
 30 to 15,000Hz
 (main-channel)

TUNER SECTION

<FM>

TUNING RANGE..... 88 to 108MHz

SENSITIVITY (IHF) 1.9μV
 (max. input capability: more than 120dB)

TOTAL HARMONIC DISTORTION
 MONO less than 0.3%
 STEREO..... less than 0.5%

SIGNAL TO NOISE RATIO (mono)
 better than 70dB

SELECTIVITY better than 70dB

CAPTURE RATIO (IHF) less than 1.5dB

IMAGE REJECTION better than 75dB

IF REJECTION better than 90dB

SPURIOUS RESPONSE better than 80dB

STEREO SEPARATION (at 1,000Hz)
 better than 40dB

FREQUENCY RESPONSE 30 to 15,000Hz ^{+0.5}_{-3.0} dB

FM DE-EMPHASIS 50μS, 75μS

ANTENNA INPUT IMPEDANCE
 300Ω Balanced,
 75Ω Unbalanced

<AM>

TUNING RANGE 535 to 1,605KHz

SENSITIVITY (bar antenna) .. 53dB/m

SELECTIVITY better than 30dB

IMAGE REJECTION better than 80dB/m

IF REJECTION better than 80dB/m

OTHERS

SEMICONDUCTORS

Transistors 107

FETs 9

Diodes 56

Zener Diodes 8

ICs..... 9

POWER REQUIREMENTS

Voltage..... 100, 117, 220, 240V 50/60Hz

Consumption 220W (rated)

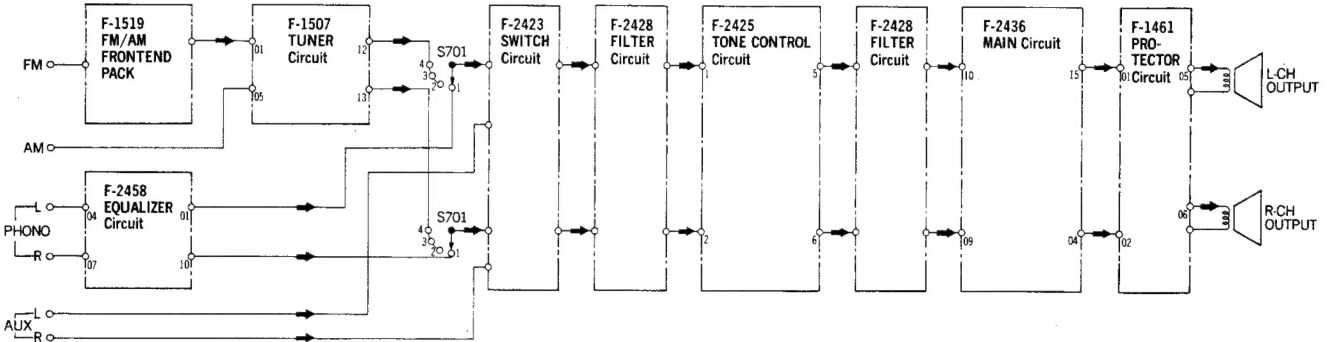
DIMENSIONS 540mm (21⁵/₁₆") W.
 161mm (6 ³/₈") H
 403mm (15⁷/₈") D

WEIGHT 23.8 Kg (52.5 lbs) net,
 26.5 Kg (58.4 lbs) packed

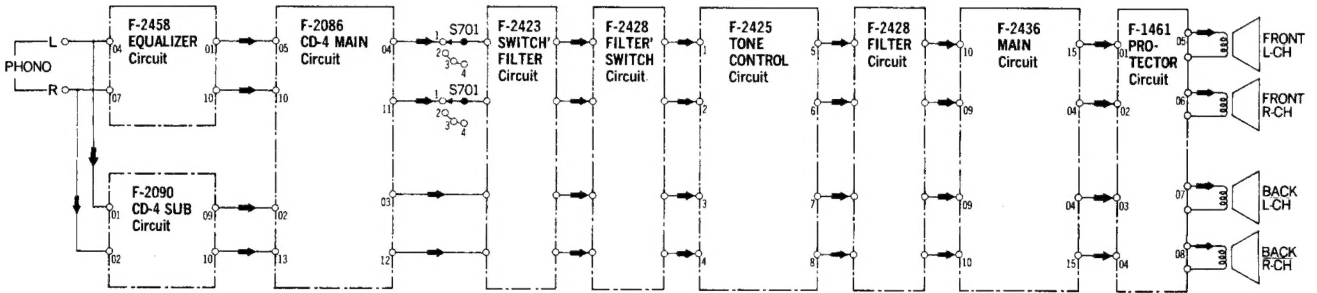
* Design and specifications subject to change without notice for improvements.

2. BLOCK DIAGRAM

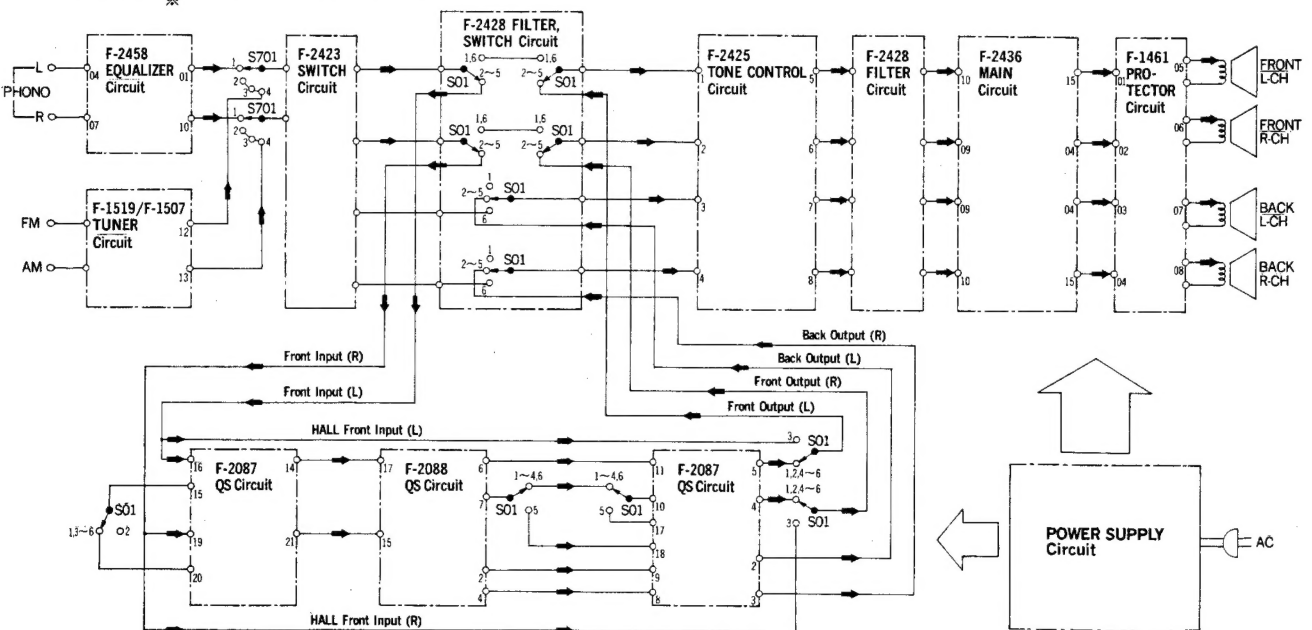
2-CH DIRECT OPERATIVE BLOCK DIAGRAM



CD-4/4-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

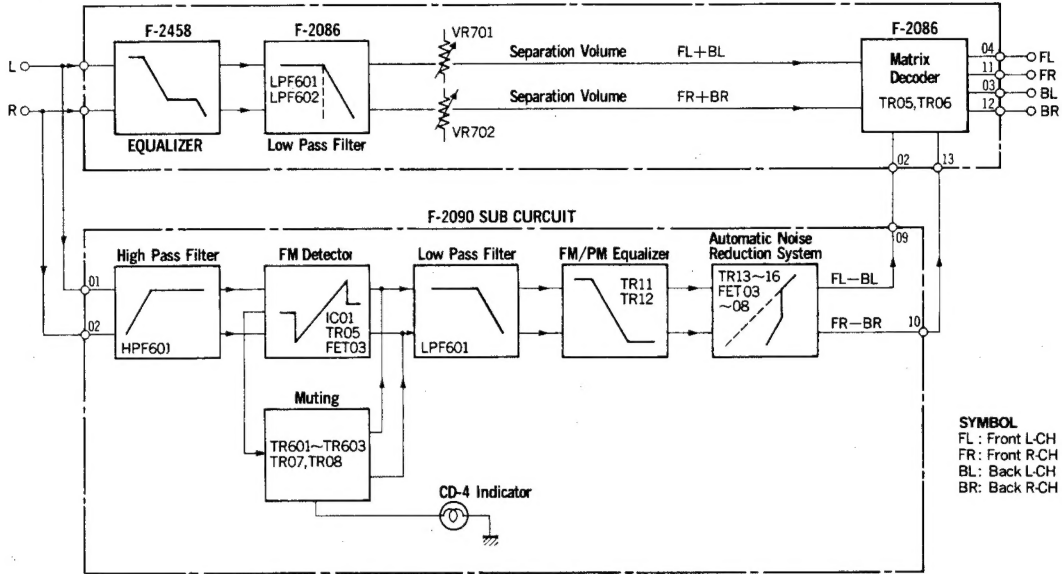
S01: FUNCTION

1. 2-CH
2. SYNTHESIZER SURROUND
3. SYNTHESIZER HALL
4. QS

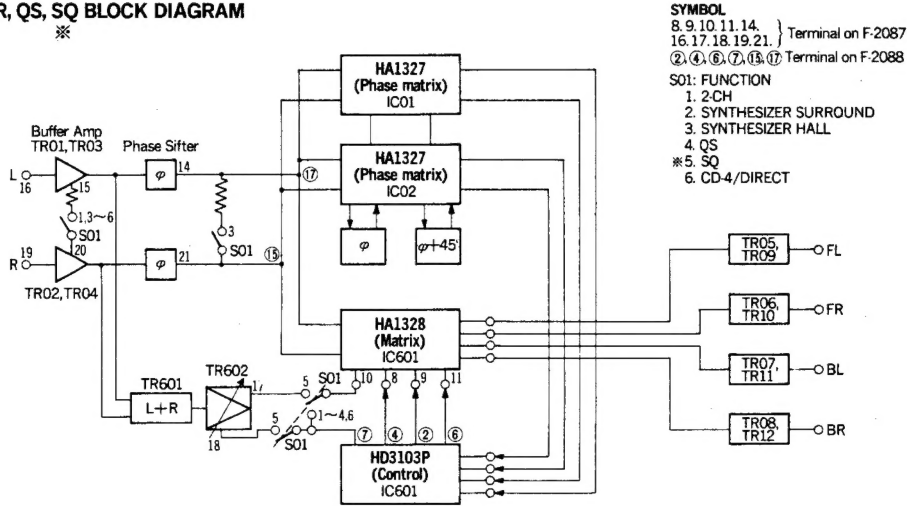
- ※5. SQ
6. CD-4/DIRECT

※SQ is a trade mark of CBS, INC"

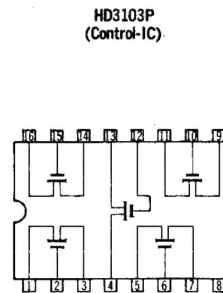
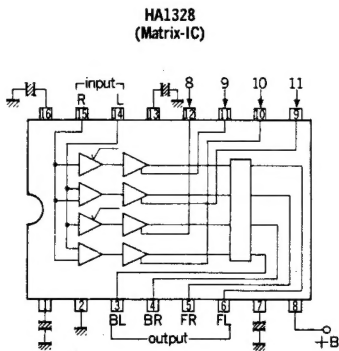
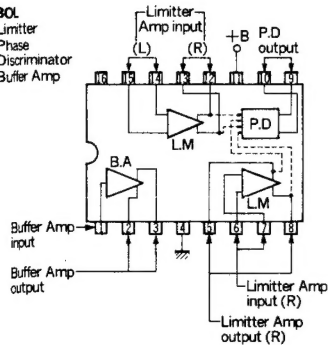
CD-4/4-CH DIRECT BLOCK DIAGRAM



SYNTHESIZER, QS, SQ BLOCK DIAGRAM



SYMBOL
 LM: 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 VR01 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 VR02 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 VR03 Fig. 3-2	30 ± 3mA	Same as above
6	Bias current Front R-CH	DC milliammeter	F-2427 F02 Fig. 3-2	F-2436 VR04 Fig. 3-2	30 ± 3mA	Same as above
7	Bias current Front 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

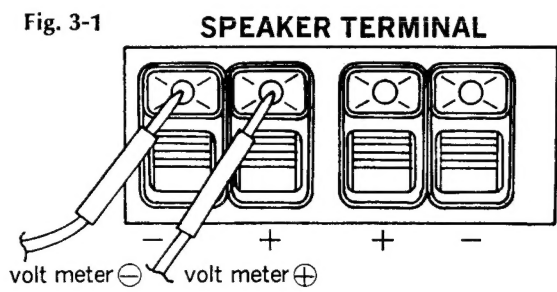
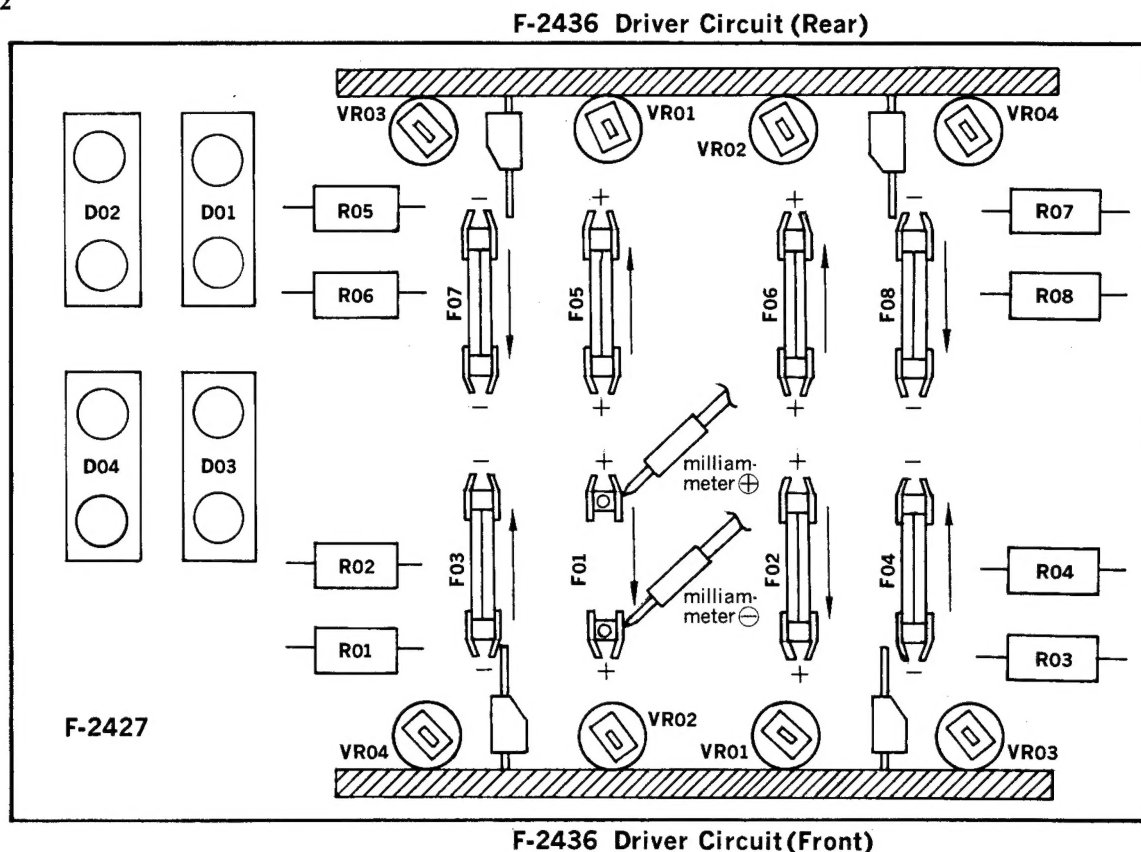


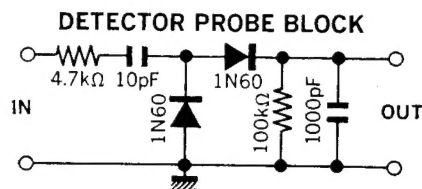
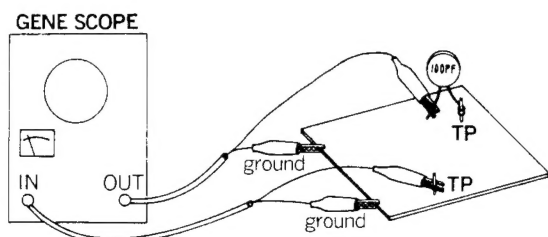
Fig. 3-2



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

- Note: 1. Selector.....FM MONO
 2. Master VolumeMinimum
 3. Output level of genescopeAfter attenuator
 4. Sweepwidth.....1.5~2cm/150kHz
 5. Frequency band9.5~11.5MHz

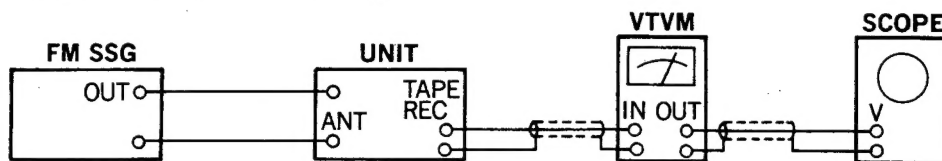
6. ConnectionConnect the output of genescope to TP.01 through 100pF ceramic capacitor.



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)

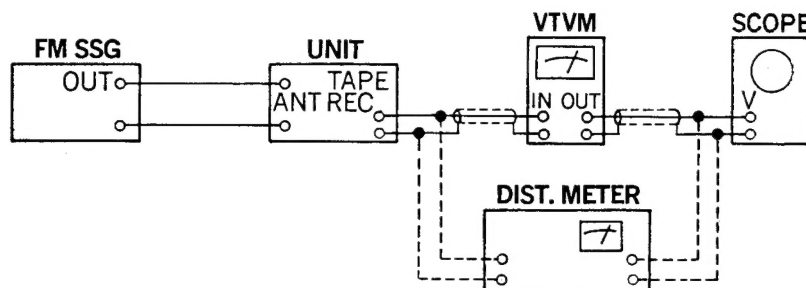
- Note:** 1. SelectorFM MONO
 2. Master Volume.....Minimum
 3. Confirm start point of dial pointer before alignment.



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)

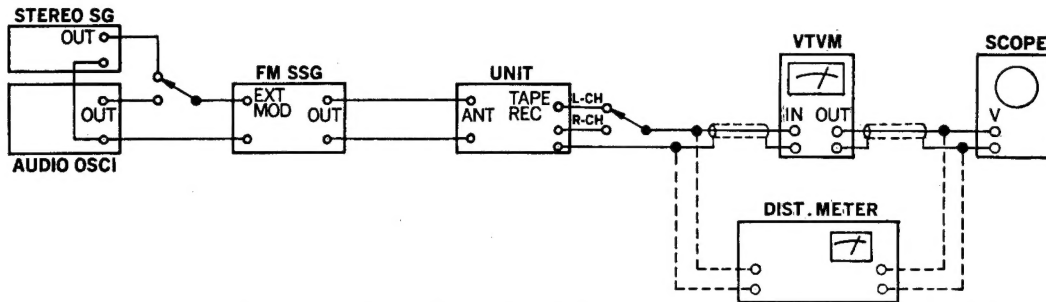
- Note:** 1. SelectorFM MONO
 2. Master Volume.....Minimum



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"> ◦Tune FM SSG (Max. indication of Signal Meter) ◦Before adjustment, if meter swings out or not enough, preadjust VR02 until the reasonable point
2	Distortion	Same as above	Same as above	REC OUT L or R-ch Dist. meter & Scope	T02	Min. distortion	<ul style="list-style-type: none"> ◦Tune FM SSG (Max. indication of signal meter)
3	Tune Meter	Same as above	Same as above	TUNE Meter	VR01	Center on Tune Meter	<ul style="list-style-type: none"> ◦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)

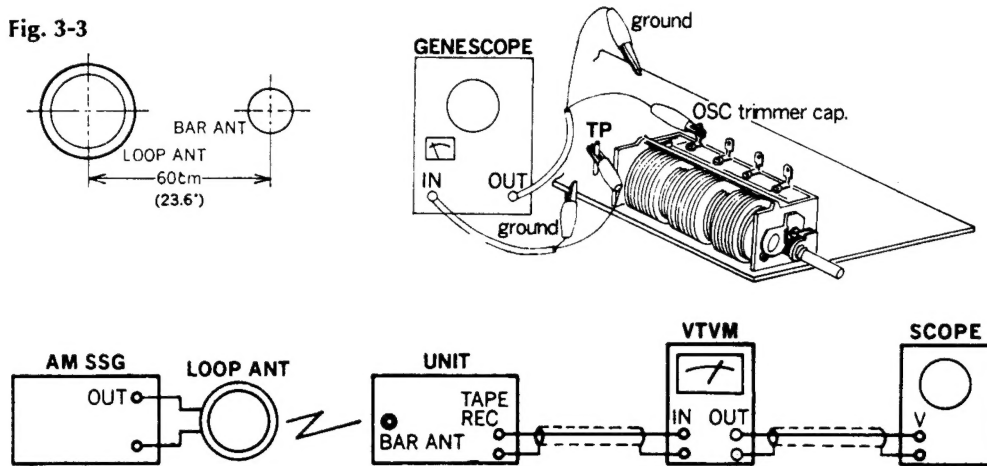
- Note: 1. Selector FM AUTO
 2. Master Volume Minimum



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	<ul style="list-style-type: none"> ◦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			<ul style="list-style-type: none"> ◦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			<ul style="list-style-type: none"> ◦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 VolumeMinimum
 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 waveform as Fig. 3-4	o Turn core T08 & T09 CCW.
2	IF coil	Output 60dB Genescope	Same as above	TP04	LC02	Max. IF waveform 2 Fig. 3-5	o If not, readjust 1 & 2 slightly
3	535kHz Dial calibration	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 Calibration	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 Calibration	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 Calibration	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 Calibration	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	

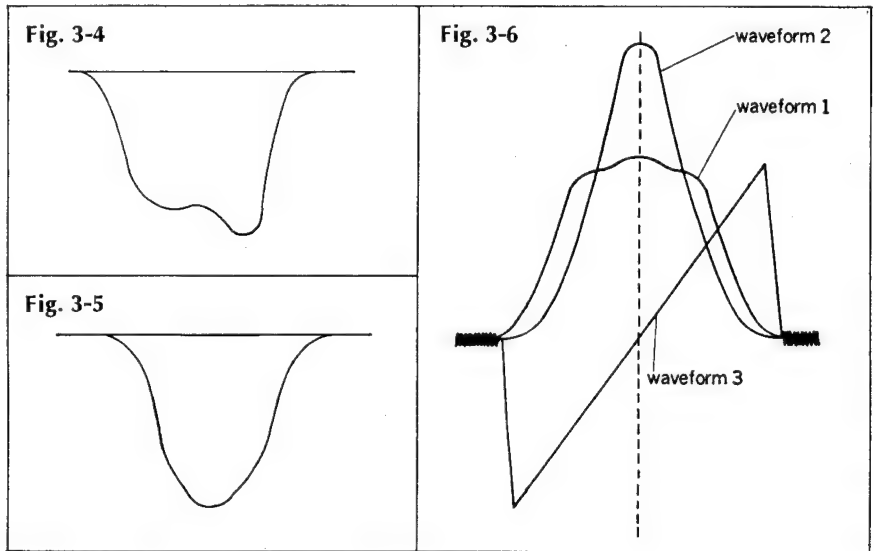


Fig. 3-7

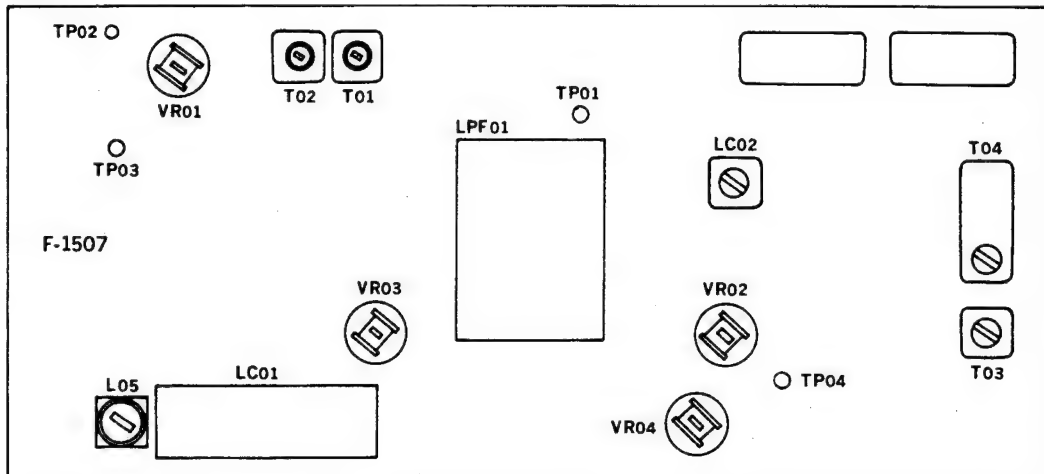


Fig. 3-8

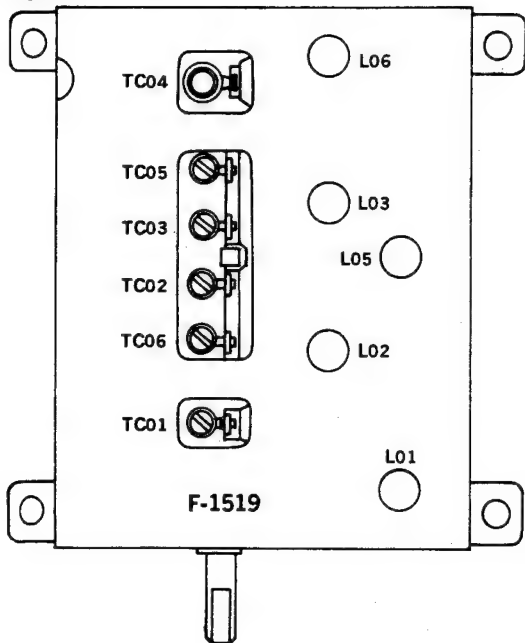
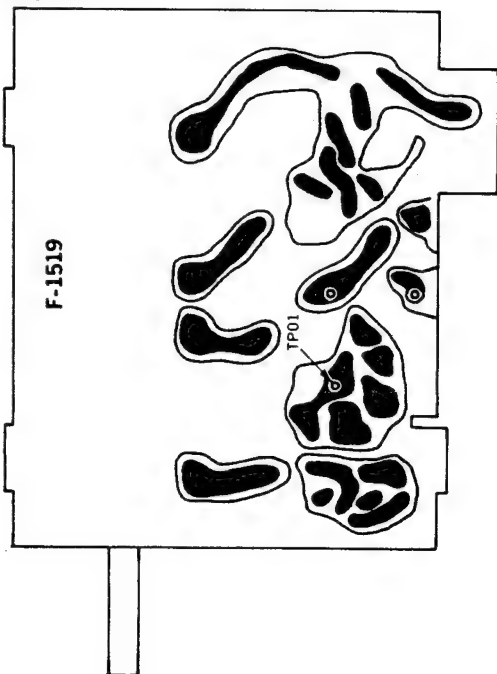
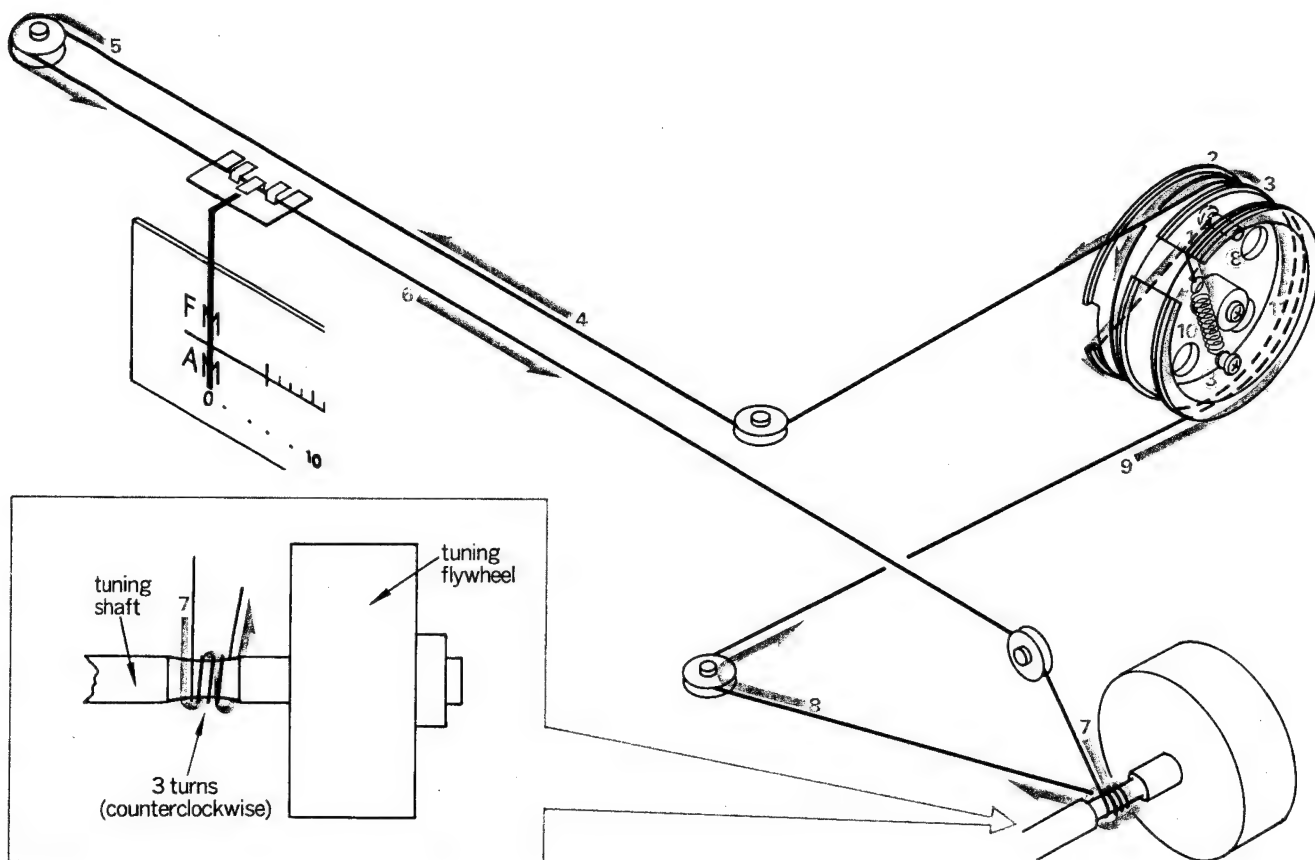


Fig. 3-9



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 ③ 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		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 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 13 , 06 on F-2436		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 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 05 , 06 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		<ul style="list-style-type: none"> 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

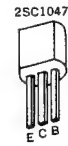
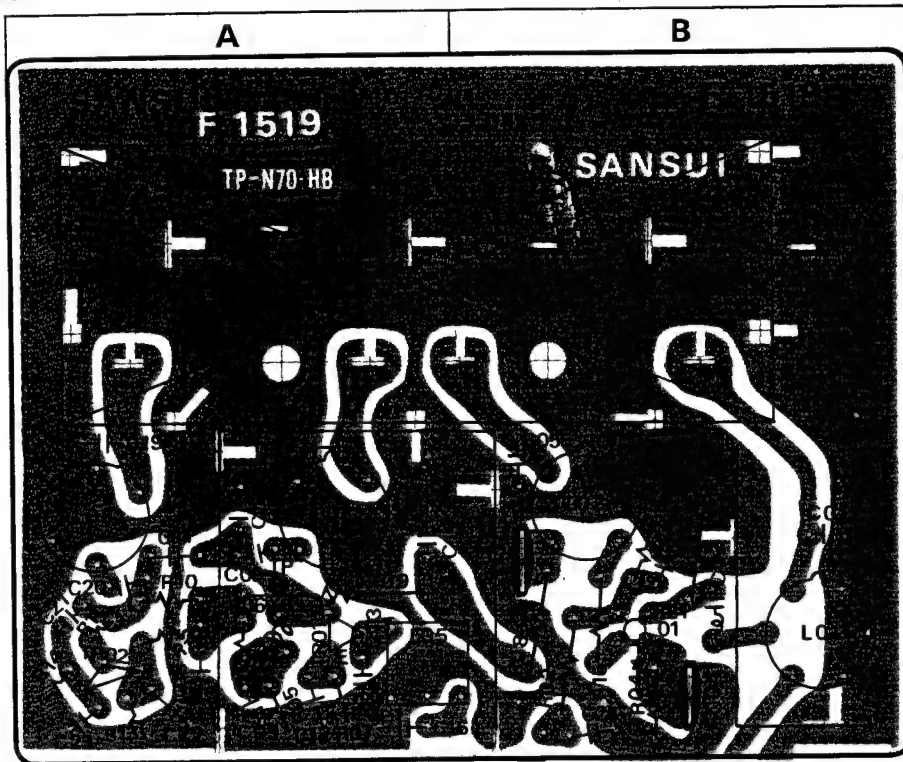
5-5. Troubleshooting on Tuner Circuit Section

Symptom	Check Point	Cause & What to Do
1. Both FM and AM inoperative		
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
2. FM inoperative		
2-1. +12V not supplied to terminal of 17 on F-1507		5. Defective C03, C04, C07, C11, C15 on F1507
2-2. +12V not supplied to terminal of 18 on F-1507		6. Defective frontend pack, F-1519
2-3. +12V supplied to terminals of 17 , 18 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
3. Inoperative MPX circuit		
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 11 , 12 , 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
4. Signal meter circuit inoperative		
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
5. AM inoperative		
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



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) } Transistor	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	B
C03	0657223	0.022μF	50V C.C.	R03	0113104	100kΩ	B
C04	0659015	2200pF		B	R04	{0106101	100Ω (3SK41(L, B))
C05	0669345	10pF	B		{0106151	150Ω (3SK41(K, C))	
C06	0679023	0.39pF	500V Gimmick. C.	R05	0106392	3.9kΩ	A
C07	0669345	10pF	A	R06	0106123	12kΩ	¼W C.R.
C08	0669210	10pF	A	R07	0106392	3.9kΩ	
C09	0657102	1000pF	50V C.C.	R08	0113121	120Ω	¼W S.R.
C10	0661220	22pF		A	R09	0113271	
C11	0669003	2.2pF	A	R10	0106392	3.9kΩ	A
C12	0657223	0.022μF	A	R11	0106121	120Ω	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)

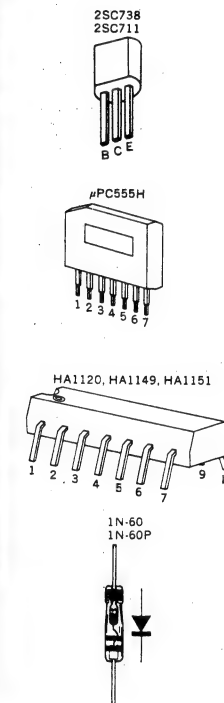
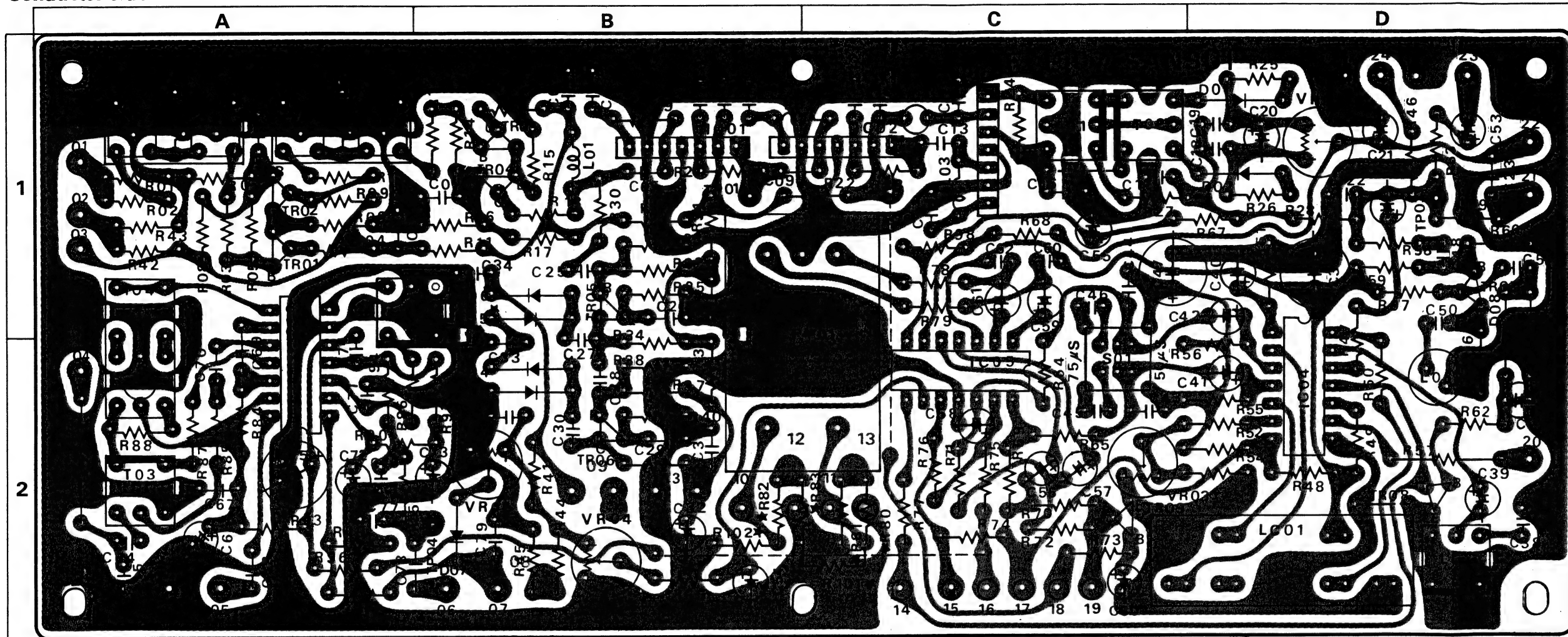
Parts List

Parts No.	Stock No.	Description	Position
TR01	0306112, 3	2SC738 (C, D)	1 A
TR02	0306112, 3	2SC738 (C, D)	1 A
TR03	0306112, 3	2SC738 (C, D)	1 B
TR04	0306112, 3	2SC738 (C, D)	1 B
TR05	0306112, 3	2SC738 (C, D)	1 B
TR06	0306112, 3	2SC738 (C, D)	2 B
TR09	0305731, 2	2SC711 (E, F)	2 C
IC01	0360120	μ PC555H	1 B
IC02	0360120	μ PC555H	1 B, C
IC03	0360120	μ PC555H	1 C
IC04	0360080	HA1120	1, 2 D
IC05	0360140	HA1149	2 C
IC06	0360150	HA1151	1, 2 A
D01	0311060	1N60P	1 D
D02	0311060	1N60P	1 D
D03	0310331	1N60	2 B
D04	0310331	1N60	2 B
D05	0310331	1N60	1 B
D06	0310331	1N60	1 B
D07	0310331	1N60	2 B
D901	0310331	1N60	2 B
T01	4235750	FM Discriminator Coil	1 C
T02	4235760		1 C
T03	4220550	AM OSC Coil	2 A
T04	0910270	Ceramic Filter	1, 2 A
L01	4900200	10 μ H Inductor Coil	1 B
L02	4900200	10 μ H Inductor Coil	1 B, C
L03	4900200	10 μ H Inductor Coil	1 C
L04	4900100	3.3 μ H Inductor Coil	1 C
L05	4240720	19kHz MPX Coil	2 D
L07	4290011	3.5 μ H Peaking Coil	2 A
LC01	4240710	MPX Coil Block	2 C, D
LC02	4230620	AM IF Coil	1, 2 A B
LPF01	0910210	Low Pass Filter	1, 2 B C
CF02a	0910150	Ceramic Filter	1 A
CF02b	0910150	Ceramic Filter	1 A
VR01	1035150	22k Ω (B)	1 D
VR02	1035170	47k Ω (B)	2 B
VR03	1035070	1k Ω (B)	2 C
VR04	1035190	100k Ω (B)	2 B
C01	0657223	0.022 μ F	1 A
C02	0657223	0.022 μ F	1 A
C03	0657223	0.022 μ F	1 B
C04	0657223	0.022 μ F	1 B
C05	0657223	0.022 μ F	1 B
C06	0657223	0.022 μ F	1 B
C07	0657223	0.022 μ F	1 B
C08	0657223	0.022 μ F	1 B
C09	0657223	0.022 μ F	1 B
C10	0657223	0.022 μ F	1 B
C11	0657223	0.022 μ F	1 C
C12	0657223	0.022 μ F	1 C
C13	0657223	0.022 μ F	1 C
C14	0657223	0.022 μ F	1 C
C15	0657223	0.022 μ F	1 C
C16	0657223	0.022 μ F	1 C
C17	0660101	100pF	1 C
C18	0660101	100pF	1 D
C19	0660101	100pF	1 D

Parts No.	Stock No.	Description	Position
C20	0512100	10 μ F 16V E.C.	1 D
C21	0513479	4.7 μ F 25V E.C.	1 D
C22	0660101	100pF	1 C
C23	0657223	0.022 μ F	1 D
C24	0657223	0.022 μ F	1 B
C25	0661470	47pF	1 B
C26	0657223	0.022 μ F	1 B
C27	0661330	33pF	1, 2 B
C28	0661470	47pF	2 B
C29	0657223	0.022 μ F	2 B
C30	0661470	47pF	2 B
C31	0657223	0.022 μ F	2 B
C32	0512100	10 μ F 16V E.C.	2 B
C33	0667223	0.022 μ F	2 B
C34	0657223	0.022 μ F	1 B
C36	0515229	2.2 μ F 50V E.C.	1 D
C37	0512101	100 μ F 16V E.C.	1 D
C38	0629001	6800pF 50V P.C.	2 D
C39	0513479	4.7 μ F	2 D
C40	0513479	4.7 μ F	1 D
C41	0515109	1 μ F	2 D
C42	0515109	1 μ F	1 D
C43	0600157	0.015 μ F 50V M.C.	2 C
C44	0600157	0.015 μ F	1 C
C45	0600686	0.0068 μ F	2 C
C46	0600686	0.0068 μ F	1 C
C47	0512101	100 μ F	1 C, D
C53	0512100	10 μ F	1 D
C54	0515109	1 μ F	2 B
C55	0515339	3.3 μ F	1 C
C56	0515109	1 μ F	2 C
C57	0515109	1 μ F	2 C
C58	0512100	10 μ F 16V E.C.	2 C
C59	0519102	3.3 μ F 50V (BRN) E.C.	1 C
C60	0601686	0.0068 μ F 50V M.C.	1 C
C61	0519102	3.3 μ F 50V (BRN) E.C.	1 C
C62	0601686	0.0068 μ F 50V M.C.	1 C
C64	0620361	360pF 50V P.C.	2 A
C65	0669215	15pF 50V C.C.	2 A
C66	0512100	10 μ F 16V E.C.	2 A
C67	0657223	0.022 μ F	2 A
C68	0657223	0.022 μ F	2 A
C69	0657223	0.022 μ F	1, 2 A
C70	0601107	0.01 μ F	2 A
C71	0601106	0.001 μ F	2 A
C72	0515109	1 μ F	2 A
C73	0515339	3.3 μ F	2 B
C74	0601107	0.01 μ F 50V M.C.	2 A
C75	0512101	100 μ F 16V E.C.	2 A
C76	0601337	0.033 μ F	2 A
C77	0601396	0.0039 μ F	2 A
C78	0601227	0.022 μ F	2 A
C79	0510470	47 μ F 6.3V E.C.	2 B
C81	0515339	3.3 μ F	50V E.C.
C901	0515109	1 μ F	50V E.C.
R04	0113151	150 Ω	1 A
R05	0113391	390 Ω	1 A
R06	0113681	680 Ω	1 A
R07	0113153	15k Ω	1 A
R08	0113103	10k Ω	1 A

Abbreviations

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

Conductor Side


Parts No.	Stock No.	Description	Position
R09	0113471	470Ω	1A
R11	0113479	4.7Ω	1B
R13	0113151	150Ω	1B
R14	0113391	390Ω	1B
R15	0113221	220Ω	1B
R16	0113562	5.6kΩ	1B
R17	0113103	10kΩ	1B
R18	0113151	150Ω	1B
R19	0113102	1kΩ	1B
R20	0113479	4.7Ω	1B
R21	0113102	1kΩ	1B
R22	0113479	4.7Ω	1B, C
R23	0113102	1kΩ	1C
R24	0113682	6.8kΩ	1C
R25	0113102	1kΩ	1D
R26	0113102	1kΩ	1D
R27	0113101	100Ω	1C
R28	0113471	470Ω	1D
R30	0113152	1.5kΩ	1B
R31	0113220	22Ω	1B
R32	0113333	33kΩ	1B

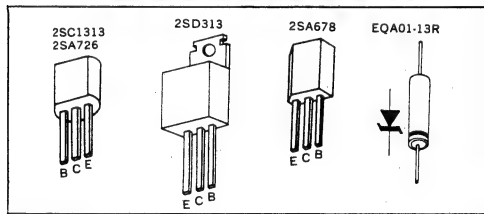
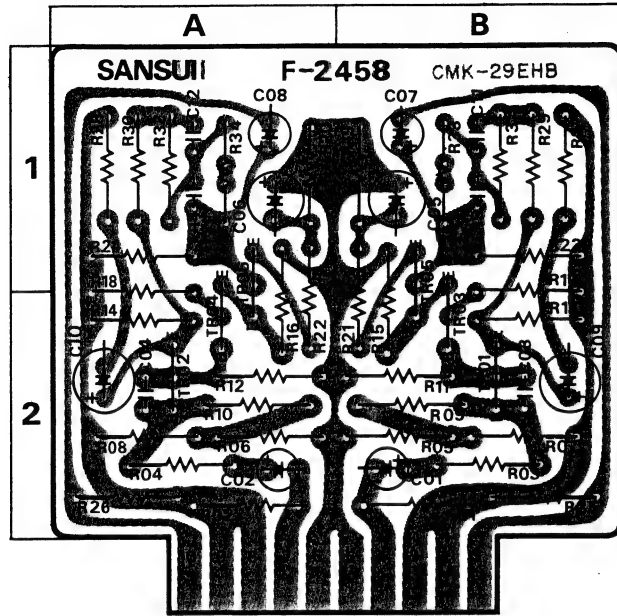
Parts No.	Stock No.	Description	Position
R33	0113102	1kΩ	1B
R34	0113331	330Ω	1B
R35	0113391	390Ω	1B
R36	0113220	22Ω	2B
R37	0113223	22kΩ	2B
R38	0113183	18kΩ	2B
R39	0113102	1kΩ	2B
R40	0113102	1kΩ	2B
R42	0113104	100kΩ	1A
R43	0113333	33kΩ	1A
R46	0113681	680Ω	1D
R47	0113562	5.6kΩ	1, 2 D
R48	0113479	4.7Ω	2D
R49	0113334	330kΩ	2D
R50	0113221	220Ω	2D
R51	0113472	4.7kΩ	1D
R52	0113151	150Ω	2C, D
R54	0113101	100Ω	2C, D
R55	0113332	3.3kΩ	2C, D
R56	0113332	3.3kΩ	2C, D
R57	0171181	180Ω 1/4W M.R.	2D

Parts No.	Stock No.	Description	Position
R63	0113471	470Ω	1D
R64	0113332	3.3kΩ	2C
R65	0113332	3.3kΩ	2C
R66	0113104	100kΩ	2B
R67	0113223	22kΩ	1D
R68	0113223	22kΩ	1C
R69	0113822	8.2kΩ	2C
R70	0113473	47kΩ	2C
R71	0113822	8.2kΩ	2C
R72	0113473	47kΩ	2C
R73	0113472	4.7kΩ	2C
R74	0113222	2.2kΩ	2C
R75	0113472	4.7kΩ	2C
R76	0113222	2.2kΩ	2C
R77	0113103	10kΩ	2C
R78	0113332	3.3kΩ	1C
R79	0113332	3.3kΩ	1C
R84	0113392	3.9kΩ	2A
R85	0113100	10Ω	2A
R86	0113101	100Ω	2A
R87	0113100	10Ω	2A

Parts No.	Stock No.	Description	Position
R88	0113224	220kΩ	2A
R89	0113122	1.2kΩ	2A
R90	0113103	10kΩ	2A
R91	0113103	10kΩ	2B
R92	0113152	1.5kΩ	2A
R93	0113151	150Ω	2A
R94	0113182	1.8kΩ	2A
R95	0113183	18kΩ	2A
R96	0113101	100Ω	2A
R98	0113473	47kΩ	1C
R100	0113681	680Ω	
R101	0113332	3.3kΩ	2C
R102	0113332	3.3kΩ	2B
R103	0113103	10kΩ	
R104	0113223	22kΩ	
R105	0113332	3.3kΩ	
R901	0113223	22kΩ	
S01	1110270	Slide Switch	1, 2 C

6-3. F-2458 Equalizer Circuit Board
(Stock No. 7550620 Complete Circuit Board F-2458)

Conductor Side

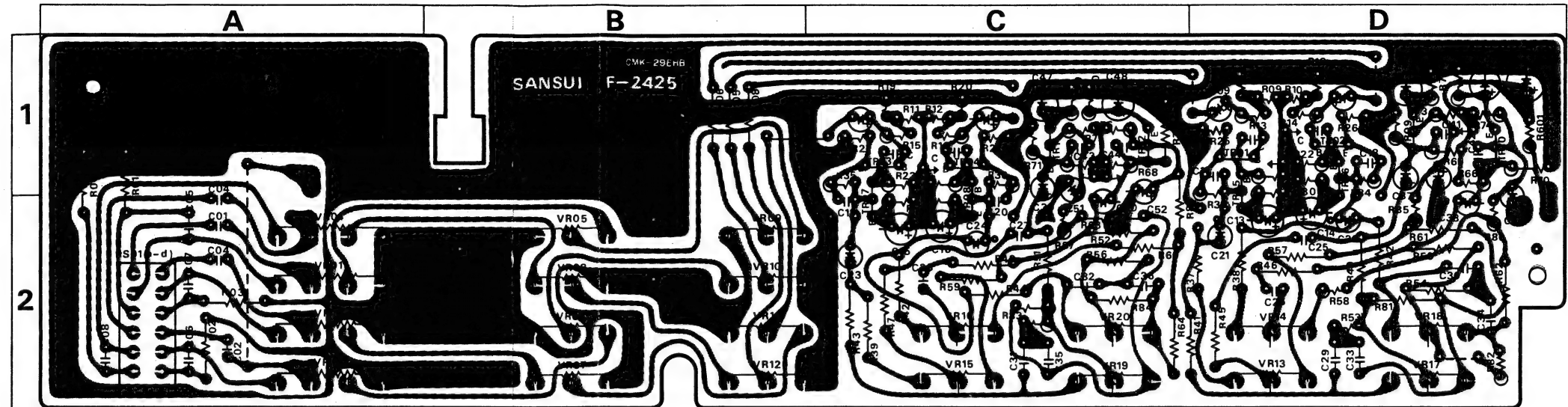


Parts List

Parts No.	Stock No.	Description	Position
TR01, 02	0306070, 1	2SC1313 (F, G)	} Transistor
TR03, 04	0300410, 1	2SA726W (F, G)	
TR05, 06	0300410, 1	2SA726W (F, G)	
C01, 02	0519105	2.2μF 50V E.C. (BRN)	2B. 2A
C03, 04	0660100	10pF 50V C.C.	2A. 2B
C05, 06	0510101	100μF 6.3V	1B. 1A
C07, 08	0519101	1μF 50V(BRN)	1B. 1A
C09, 10	0512470	47μF 16V	1B. 2A
C11, 12	0600126	0.0012μF	1B. 1A
C13, 14	0600476	0.0047μF	1A. 1B
C901, 902	0660101	100pF 50V C.C.	
R01, 02	0107104	100kΩ	2B. 2A
R03, 04	0107222	2.2kΩ	2B. 2A
R05, 06	0107184	180kΩ	2B. 2A
R07, 08	0107273	27kΩ	2B. 2A
R09, 10	0107104	100kΩ	2B. 2A
R11, 12	0107334	330kΩ	2B. 2A
R13, 14	0107154	150kΩ	2B. 2A
R15, 16	0107563	56kΩ	1,2B. 1,2A
R17, 18	0107274	270kΩ	1,2B. 1,2A
R19, 20	0107102	1kΩ	1B. 1A
R21, 22	0107101	100Ω	1,2B. 1,2A
R23, 24	0107472	4.7kΩ	1B. 1A
R25, 26	0107104	100kΩ	2B. 2A
R27, 28	0107182	1.8kΩ	1B. 1A
R29, 30	0107331	330Ω	1B. 1A
R31, 32	0107563	56kΩ	1B. 1A
R33, 34	0106564	560kΩ	1B. 1A
R35, 36	0106224	220kΩ	1/4W C.R. (E.L.R.)

6-4. F-2425 Tone Control Circuit Board (Stock No. 7560870 Complete Circuit Board F-2425)

Conductor Side



Parts List

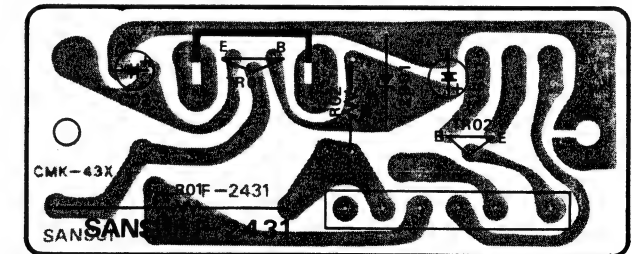
Parts No.	Stock No.	Description	Position
TR01, 02	0306070, 1	2SC1313 (F, G)	1D
TR03, 04	0306070, 1	2SC1313 (F, G)	1C
TR05, 06	0300470, 1	2SA726 (F, G)	1D
TR07, 08	0300470, 1	2SA726 (F, G)	1C
TR09, 10	0306070, 1	2SC1313 (F, G)	1D
TR11, 12	0306070, 1	2SC1313 (F, G)	1C
VR01-04	1060340, 1	250kΩ (B) × 4	2A
VR05-08	1060350, 1	250kΩ (MN) × 4	2B
VR09-12	1060360, 1	250kΩ (MN) × 4	2B
VR13, 14	1010930, 1	100kΩ (B) × 2	2D
VR15, 16	1010930, 1	100kΩ (B) × 2	2C
VR17, 18	1010930, 1	100kΩ (B) × 2	2D
VR19, 20	1010930, 1	100kΩ (B) × 2	2C
C01, 02	0620181	180pF	2A
C03, 04	0620181	180pF	2A
C05, 06	0601227	0.022μF	1, 2A. 2A
C07, 08	0601227	0.022μF	2A
C09, 10	0519101	1μF	2A
C11, 12	0519101	1μF	50V E.C. (BRN)
C13, 14	0510101	100μF	1C
C15, 16	0510101	100μF	6.3V E.C.
C17, 18	0660220	22pF	1, 2C
C19, 20	0660220	22pF	1D
C21, 22	0519102	3.3μF	1C
C23, 24	0519102	3.3μF	50V E.C. (BRN)
C25, 26	0601226	0.0022μF	2C
C27, 28	0601226	0.0022μF	2D
C29, 30	0601827	0.082μF	2C
C31, 32	0601827	0.082μF	2D
C33, 34	0601827	0.082μF	2C
C35, 36	0601827	0.082μF	2D
C37, 38	0519102	3.3μF	2C
C39, 40	0519102	3.3μF	50V E.C. (BRN)
C41, 42	0660330	33pF	1C
C43, 44	0660330	33pF	1D
C45, 46	0510101	100μF	50V C.C.
C47, 48	0510101	100μF	6.3V E.C.
C49, 50	0519102	3.3μF	1D
C51, 52	0519102	3.3μF	50V E.C. (BRN)
C601	0515470	47μF 50V E.C.	1D

Parts No.	Stock No.	Description	Position
R01, 02	0106273	27kΩ	1A. 2A
R03, 04	0106273	27kΩ	2A. 1A
R05, 06	0107222	2.2kΩ	1B
R07, 08	0107222	2.2kΩ	1/4W C.R.
R09, 10	0106334	330kΩ	1D
R11, 12	0106334	330kΩ	1C
R13, 14	0106334	330kΩ	1D
R15, 16	0106334	330kΩ	1C
R17, 18	0106563	56kΩ	1D
R19, 20	0106563	56kΩ	1C
R21, 22	0106333	33kΩ	1D
R23, 24	0106333	33kΩ	1C
R25, 26	0106222	2.2kΩ	1/4W C.R. (E.L.R.)
R27, 28	0106222	2.2kΩ	1D
R29, 30	0106821	820Ω	1D
R31, 32	0106821	820Ω	1C
R33, 34	0106103	10kΩ	1D
R35, 36	0106103	10kΩ	1C
R37, 38	0107392	3.9kΩ	2D
R39, 40	0107392	3.9kΩ	2C
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	10kΩ	2D
R51, 52	0107103	10kΩ	2B
R53	0106332	3.3kΩ	1/4W C.R. (E.L.R.)
R54	0107332	3.3kΩ	1/4W C.R.
R55	0106332	3.3kΩ	1/4W C.R. (E.L.R.)
R56	0107332	3.3kΩ	2C
R57	0107392	3.9kΩ	2D
R58	0106392	3.9kΩ	1/4W C.R. (E.L.R.)
R59, 60	0107392	3.9kΩ	2C
R61, 62	0107123	12kΩ	2D
R63, 64	0107123	12kΩ	1C. 2B
R65, 66	0106224	220kΩ	1D
R67, 68	0106224	220kΩ	1C
R69, 70	0106273	27kΩ	1/4W C.R. (E.L.R.)
R71	0106273	27kΩ	1C
R72	0107273	27kΩ	1/4W C.R.

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

(Stock No. 7500920 Complete Circuit Board F-2431)

Conductor Side

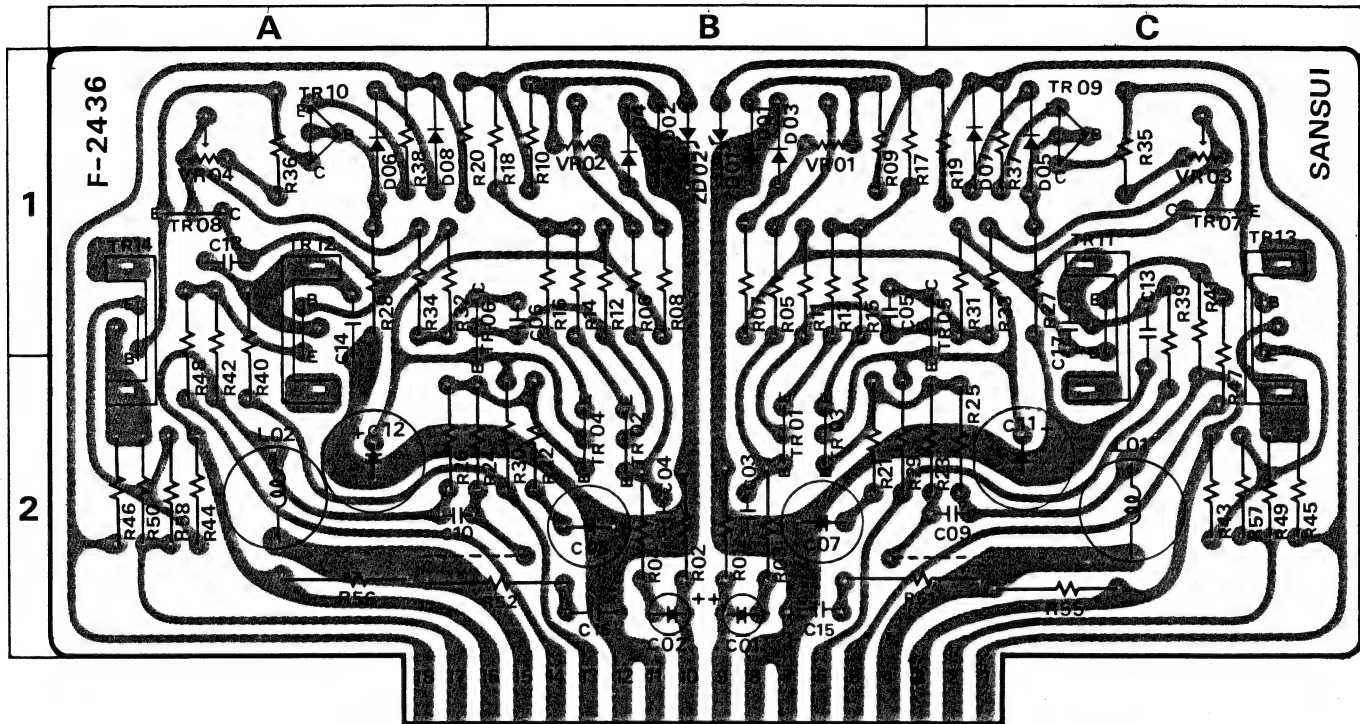


Parts List

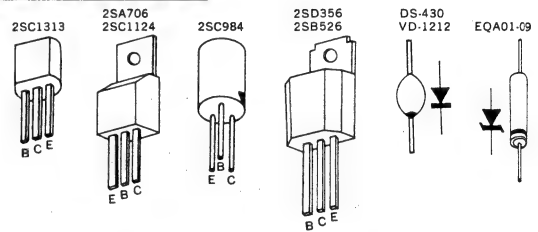
Parts No.	Stock No.	Description
TR01	0308390-2	2SD313 (C,D,E)
TR02	0300292	2SA678 (7)
ZD01	0315970	EQA01-13R Zener Diode
C01	0512221	220μF
C02	0512101	100μF 16V E.C.
R01	0183391	390Ω 3W Ce.R.
R02	0107472	4.7kΩ 1/4W C.R.
R03	0183391	390Ω 3W Ce.R.

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	2SC1313® (F, G)	2 B
TR03,04	0306070	2SC1313® (F, G)	2 B
TR05,06	0300381,2	2SA706-3 (2, 3)	1C. 1, 2A
TR07,08	0305871,2	2SC984 (B, C)	1C. 1 A
TR09,10	0305901,2	2SC1124 (2, 3)	1C. 1 A
TR11,12	0308450-2	2SD356 (C, D, E)	1,2C.1,2A
TR13,14	0303280-2	2SB526 (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	1C. 1 A
ZD01,02	0315850	EQA01-09	Zener Diode 1 B
VR01,02	1035350	4.7kΩ (B)	Semi-Variable Resistor 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	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	120kΩ	2 B
R03,04	0107103	10kΩ	2 B
R05,06	0107124	120kΩ	1 B
R07,08	0107683	68kΩ	1 B
R09,10	0107223	22kΩ	1 B
R11,12	0107102	1kΩ	1 B
R13,14	0107479	4.7Ω	1 B
R15,16	0107479	4.7Ω	1 B
R17,18	0107332	3.3kΩ	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,2C.2A
R53,54	0133228	0.22Ω 3W Ce. R.	
R55,56	0107274	270kΩ ¼W C.R.	2C. 2 A

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

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

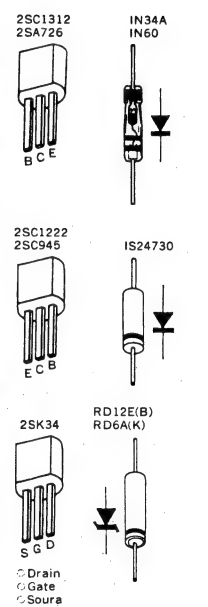
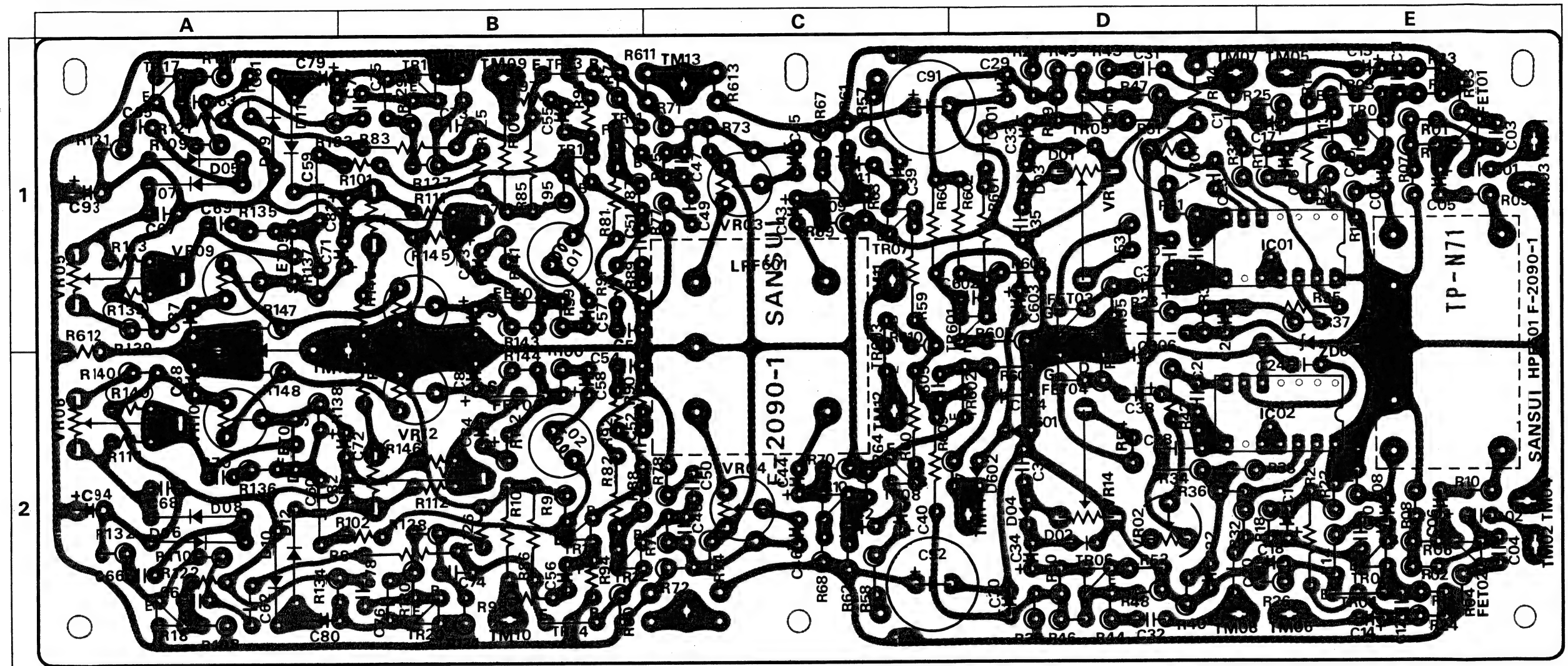
Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position		
TR01, 02	0306090, 1	2SC1312 (R) (F, G)	1 E. 2 E	C13, 14	0515109	1 μ F	1 E. 2 E		
	or	or		C15, 16	0515109	1 μ F		50V E.C.	
TR03, 04	0306011, 2	2SC1222 (E, F)	1 E. 2 E	C17, 18	0515109	1 μ F	1 E. 2 E		
	0306090, 1	2SC1312 (R) (F, G)		C19, 20	0601477	0.047 μ F	50V M.C.	1 D. 2 D	
TR05, 06	0305951-3	2SC945 (Q, P, K)	2 D	C21, 22	0515109	1 μ 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 μ F	50V M.C.	1 D. 2 E	
TR09, 10	0300301, 3, 5	2SA640 (M, K, L)	Transistor 1 C. 2 C	C25, 26	0657102	0.001 μ F	50V C.C.	1 D. 2 D	
	or	or		C27, 28	0600336	0.0033 μ F	50V M.C.	1 D. 2 D	
TR11, 12	0300410, 1	2SA726 (F, G)	1 B. 2 B	C29, 30	0512100	10 μ F	16V E.C.	1 D. 2 D	
	0306090, 1	2SC1312 (R) (F, G)		C31, 32	0601476	0.0047 μ F	50V M.C.	1 D. 2 D	
TR13, 14	0306011, 2	2SC1222 (E, F)	1 B. 2 B	C33, 34	0515109	1 μ F	50V E.C.	1 D. 2 D	
	0306090, 1	2SC1312 (R) (E, F)		C35, 36	0601157	0.015 μ F	50V M.C.	1 D. 2 D	
TR15, 16	0306011, 2	2SC1222 (E, F)	1 B. 2 B	C37, 38	0512330	33 μ F	1 D. 2 D		
	or	or		C39, 40	0515339	3.3 μ F	1 C. 2 C		
TR17, 18	0305951-3	2SC945 (Q, P, K)	1 A. 2 A	C41, 42	0515339	3.3 μ 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 μ F	1 C. 2 C		
TR601	0305951-3	2SC945 (Q, P, K)	1 D	C45, 46	0515109	1 μ F	1 C. 2 C		
TR602	0305951-3	2SC945 (Q, P, K)	2 D	C47, 48	0620331	330 pF	50V P.C.	1 C. 2 C	
TR603	0305951-3	2SC945 (Q, P, K)	1, 2 C	C49, 50	0600476	0.0047 μ F	M.C.	1 C. 2 C	
TR604	0305951-3	2SC945 (Q, P, K)		C51, 52	0600827	0.082 μ F	1 B. 2 B		
FET01, 02	0370150, 1	2SK34 (B, C)	FET 1 E. 2 E	C53, 54	0620331	330 pF	50V P.C.	1 B. 2 B	
FET03, 04	0370150	2SK34 (B)		1 E. 2 D	C55, 56	0515109	1 μ F	50V E.C.	1 B. 2 B
FET05, 06	0370151	2SK34 (C)		1 D. 2 A	C57, 58	0573688	0.68 μ F	35V T.C.	1 B. 2 B
FET07, 08	0370151	2SK34 (C)		1 A. 2 A	C59, 60	0600158	0.15 μ F	1 A. 2 A	
IC01, 02	0360110	CD894A	IC 1 E. 2 E	C61, 62	0600686	0.0068 μ F	50V M.C.	1 A. 2 A	
D01, 02	0311160	1S2473D	1 D. 2 D	C63, 64	0600686	0.0068 μ F		1 A. 2 A	
D03, 04	0311160	1S2473D	1 D. 2 D	C65, 66	0600226	0.0022 μ F	1 A. 2 A		
D05, 06	0310400	1N34A	1 A. 2 A	C67, 68	0601227	0.022 μ F	1 A. 2 A		
D07, 08	0310400	1N34A	1 A. 2 A	C69, 70	0601476	0.0047 μ F	1 A. 2 A		
D09, 10	0310400	1N34A	1 A. 2 A	C71, 72	0512100	10 μ F	16V E.C.	1A, B, 2A, B	
D11, 12	0310400	1N34A	1 A. 2 A	C73, 74	0600127	0.012 μ F	1 B. 2 B		
D601, 602	0310330	1N60	2 D	C75, 76	0600157	0.015 μ F	50V M.C.	1 B. 2 B	
D603	0311160	1S2473D		C77, 78	0600157	0.015 μ F	1 B. 2 B		
ZD601	0316290	RD-12E(B)	Zener Diode 1, 2 E	C79, 80	0573338	0.33 μ F	1 A. 2 A		
ZD602	0315530	RD-6A(K)	1, 2 A	C81, 82	0573338	0.33 μ F	35V T.C.	1A, B, 2B	
VR01, 02	1035090	2.2k Ω (B)	1 D. 2 D	C83, 84	0573338	0.33 μ F	1 B. 2 B		
VR03, 04	1035110	4.7k Ω (B)	Semi-Variable Resistor (Solid Type) 1 C. 2 C	C85, 86	0511330	33 μ F	10V E.C.	1 B. 2 B	
VR09, 10	1035150	22k Ω (B)	1 A. 2 A	C87, 88	0510470	47 μ F	6.3V E.C.	1 A. 2 A	
VR11, 12	1035150	22k Ω (B)	1 B. 2 B	C91, 92	0513221	220 μ F	25V E.C.	1 C, D, 2 C, D	
VR13, 14	1032520, 1	100k Ω (B)	Semi-Variable Resistor 1 D. 2 D	C93, 94	0513101	100 μ F	1 A. 2 A		
L01, 02	4900191	100mH Ferri-Inductor	1 B. 2 B	C601	0660221	220 pF	50V C.C.	1 D	
LPF601	0910240	VSL-200-6 Low Pass Filter	1, 2 C	C602	0660220	22 pF	1 D		
HPF601	0910240	VSL-400 High Pass Filter	1, 2 E	C603	0525109	1 μ F	50V E.C.	1 D	
C01, 02	0601106	0.001 μ F 50V M.C.	1 E. 2 E	C604	0513479	4.7 μ F	25V E.C.	2 D	
C03, 04	0660509	5pF 50V C.C.	1 E. 2 E	C605	0512330	33 μ F	16V E.C.	2 C	
C05, 06	0515109	1 μ F	50V E.C.	C607	0512100	10 μ F	1 E. 2 E		
C07, 08	0515109	1 μ F	50V E.C.	C901	0512330	33 μ F			
C09, 10	0660680	68pF	50V C.C.	R01, 02	0106105	1M Ω	1 E. 2 E		
C11, 12	0660150	15pF	50V C.C.	R03, 04	0106102	1M Ω	1 E. 2 E		
				R05, 06	0106221	220 Ω	1 E. 2 E		
				R07, 08	0106123	12k Ω	1 E. 2 E		
				R09, 10	0106272	2.7k Ω	1/4 W C.R. (E.L.R.)		
				R11, 12	0106332	3.3k Ω	1 E. 2 E		
				R13, 14	0106394	390k Ω	1 E. 2 E		
				R15, 16	0106184	180k Ω	1 E. 2 E		
				R17, 18	0106472	4.7k Ω	1 E. 2 E		
				R19, 20	0107104	100k Ω	1/4 W C.R.		
				R21, 22	0106331	330 Ω	1 E. 2 E		
				R23, 24	0106472	4.7k Ω	1/4 W C.R. (E.L.R.)		
				R25, 26	0106471	470 Ω	1 E. 2 E		



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

Conductor Side



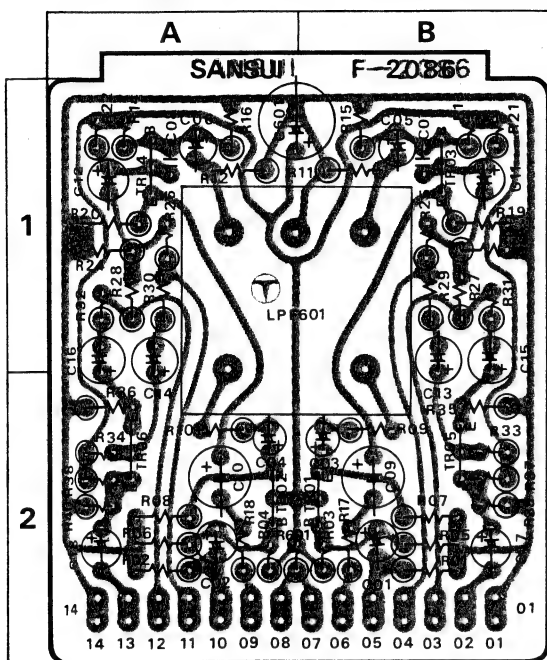
Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
R27	0106332	3.3kΩ	1D	R63, 64	0106474	470kΩ	1C.2C	R103, 104	0107333	33kΩ ¼W C.R.	1B.2B	R601	0107562	5.6kΩ	1D
R28	0106472	4.7kΩ	2D	R67, 68	0106221	220Ω	1C.2C	R107, 108	0106473	47kΩ	1A.2A	R602	0107684	680kΩ	1D
R31, 32	0106222	2.2kΩ	1D.2D	R69, 70	0109472	4.7kΩ	1C.2C	R109, 110	0106823	82kΩ	1A.2A	R603	0106104	100kΩ	1D
R33, 34	0106103	10kΩ	1D.2D	R71, 72	0106474	470kΩ	1C.2C	R111, 112	0106473	47kΩ	1B.2B	R604	0107332	3.3kΩ	1D
R35	0107472	4.7kΩ	1D, E	R73, 74	0106473	47kΩ	1C.2C	R113, 114	0106563	56kΩ	1A.2A	R605	0106331	330Ω	1, 2D
R36	0106472	4.7kΩ	2D	R75, 76	0106333	33kΩ	1C.2C	R121, 122	0106473	47kΩ	1A.2A	R607	0106222	2.2kΩ	2C, D
R37, 38	0106472	4.7kΩ	1E, 2D, E	R77, 78	0106472	4.7kΩ	1C.2C	R123, 124	0106473	47kΩ	1B.2B	R608	0106472	4.7kΩ	2D
R39, 40	0106103	10kΩ	1D.2D	R79, 80	0106273	27kΩ	1B.2B	R125, 126	0106473	47kΩ	1B.2B	R609	0107562	5.6kΩ	2C
R41, 42	0106272	2.7kΩ	1D.2D	R81, 82	0107272	2.7kΩ	1B.2B	R127, 128	0106103	10kΩ	1B.2B	R610	0106183	18kΩ	1, 2C
R43, 44	0106821	820Ω	1D.2D	R83, 84	0107479	4.7kΩ	1B.2B	R129, 130	0106103	10kΩ	1B.2B	R611	0106820	82Ω	1B, C
R45, 46	0106564	560kΩ	1D.2D	R85, 86	0107103	10kΩ	1B.2B	R131, 132	0106682	6.8kΩ	1A.2A	R612	0104681	680Ω	1, 2A
R47, 48	0106473	47kΩ	1D.2D	R87, 88	0106473	47kΩ	1B.2B, C	R133, 134	0106682	6.8kΩ	1A, B, 2A, B	R613	0106680	68Ω	1C
R49, 50	0106682	6.8kΩ	1D.2D	R89, 90	0106103	10kΩ	1B.2B	R135, 136	0106104	100kΩ	1A.2A	R614	0104331	330Ω	1D
R51, 52	0106680	68Ω	1D.2D	R91, 92	0106223	22kΩ	1B.2B	R137, 138	0106183	18kΩ	1A.2B	R621	0107392	3.9kΩ	
R53, 54	0106683	68kΩ	1D.2D	R93, 94	0106103	10kΩ	1B.2B	R139, 140	0106474	470kΩ	1A.2A	R622	0107393	39kΩ	
R55, 56	0106104	100kΩ	1D.2D	R95, 96	0106392	3.9kΩ	1B.2B	R141, 142	0106104	100kΩ	1B.2B	R623	0107562	5.6kΩ	¼W C.R.
R57, 58	0106562	5.6kΩ	1C.2C	R97, 98	0106183	18kΩ	1B.2B	R143, 144	0106183	18kΩ	1B.2B	R901	0107473	47kΩ	
R59, 60	0107223	22kΩ	1C.2C	R99, 100	0106271	27kΩ	1B.2B	R145, 146	0106394	390kΩ	1B.2B	R902	0107394	390kΩ	
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. 7650250 Complete Circuit Board F-2086)

Conductor Side



Parts List

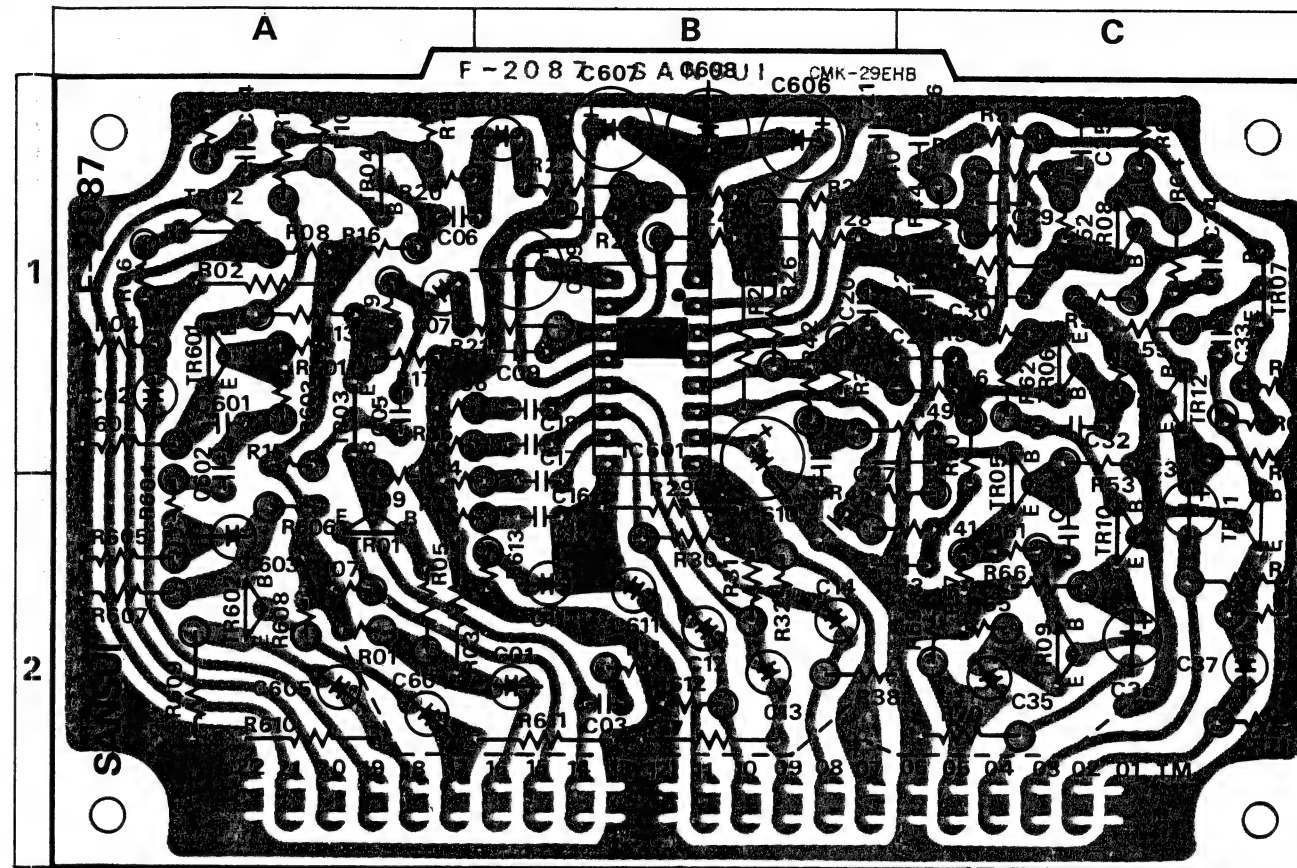
Parts No.	Stock No.	Description	Position
TR01, 02	0306090, 1	2SC1312 (F, G)	} Transistor
TR03, 04	0306090, 1	2SC1312 (F, G)	
TR05, 06	0306090, 1	2SC1312 (F, G)	
TR07, 08	0306090, 1	2SC1312 (F, G)	
TR09, 10	0306090, 1	2SC1312 (F, G)	
TR11, 12	0306090, 1	2SC1312 (F, G)	2C. 1C
TR601	0306090, 1	2SC1312 (F, G)	1A
TR602	0306090, 1	2SC1312 (F, G)	2A
LPF601	0910230	VSL-200-3 Low Pass Filter	2A, B. 1A, B
C01, 02	0515109	1μF 50V E.C.	2B. 2A
C03, 04	0513479	4.7μF 25V E.C.	2B. 2A
C05, 06	0515109	1μF 50V E.C.	1B. 1A
C07, 08	0660330	33pF 50V C.C.	1B. 1A
C09, 10	0510101	100μF 6.3V E.C.	2B. 2A
C11, 12	0519105	2.2μF	1B. 1A
C13, 14	0519102	3.3μF 50V E.C. (BRN)	1, 2B, 1, 2A
C15, 16	0519102	3.3μF	1, 2B, 1, 2A
C17, 18	0515109	1μF 50V E.C.	2B. 2A
C601	0513101	100μF 25V E.C.	1A, B
R01, 02	0106474	470kΩ	2B. 2A
R03, 04	0106274	270kΩ	2B. 2A
R05, 06	0106274	270kΩ	2B. 2A
R07, 08	0106332	3.3kΩ	2B. 2A
R09, 10	0106472	4.7kΩ	2B. 2A
R11, 12	0106472	4.7kΩ	1B. 1A
R13, 14	0106274	270kΩ	1B. 1A
R15, 16	0106823	82kΩ	1B. 1A
R17, 18	0106271	270Ω	2B. 2A
R19, 20	0106392	3.9kΩ	1B. 1A
R21, 22	0106822	8.2kΩ	1B. 1A
R23, 24	0106124	120kΩ	1B. 1A
R25, 26	0109123	12kΩ	1B. 1A
R27, 28	0106103	10kΩ	1B. 1A
R29, 30	0106103	10kΩ	1B. 1A
R31, 32	0106103	10kΩ	1B. 1A
R33, 34	0106102	1kΩ	2B. 2A
R35, 36	0106102	1kΩ	2B. 2A
R37, 38	0106394	390kΩ	2B. 2A
R39, 40	0106274	270kΩ	2B. 2A
R601	0106151	150Ω	2A, B

6-9. F-2087 QS Matrix Circuit Board (Stock No. 7650260 Complete Circuit Board F-2087)

Parts List

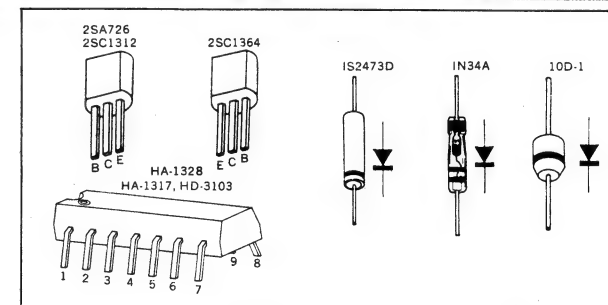
Parts No.	Stock No.	Description	Position
TR01, 02	0300410, 1	2SA726 (F, G)	2A. 1A
TR03, 04	0306090, 1	2SC1312 (F, G)	1A
TR05, 06	0306091	2SC1312 (G)	1, 2C. 1C
TR07, 08	0306091	2SC1312 (G)	1C
TR09, 10	0306090, 1	2SC1312 (F, G)	2C
TR11, 12	0306090, 1	2SC1312 (F, G)	2C. 1C
TR601	0306090, 1	2SC1312 (F, G)	1A
TR602	0306090, 1	2SC1312 (F, G)	2A
IC601	0360210	HA-1328 IC	1B
C01, 02	0515339	3.3μF 50V E.C.	2B. 1A
C03, 04	0600680	0.0068μF	2B. 1A
C05, 06	0600107	0.01μF	1A
C07, 08	0519101	1μF 50V E.C.	1A. 1B
C09	0660151	150pF	1B
C10	0660151	150pF	1B
C11	0513100	10μF	2B
C12	0513100	10μF	2B
C13	0513100	10μF 25V E.C.	2B
C14	0513100	10μF	2B
C15	0600276	0.0027μF	2B
C16	0600276	0.0027μF	50V M.C.
C17	0600276	0.0027μF	1B
C18	0600276	0.0027μF	1B
C19, 20	0620561	560pF	50V P.C.
C21, 22	0620561	560pF	1B. 1C
C23, 24	0600337	0.033μF	2B, C. 1, 2B
C25, 26	0600337	0.033μF	1C
C27, 28	0600107	0.01μF	50V M.C.
C29, 30	0600107	0.01μF	1C
C31, 32	0600397	0.039μF	2C. 1C
C33	0620561	560pF 50V P.C.	1C
C34	0600276	0.0027μF 50V M.C.	1C
C35, 36	0515339	3.3μF	50V E.C.
C37, 38	0515339	3.3μF	50V E.C.
C601	0600396	0.0039μF	50V M.C.
C602	0600107	0.01μF	1, 2A
C603	0515339	3.3μF 50V E.C.	2A
C604	0519102	3.3μF	50V E.C. (BRN)
C605	0519102	3.3μF	50V E.C. (BRN)
C606	0511101	100μF	1B
C607	0511470	47μF	1B
C608	0511101	100μF 10V E.C.	1B
C609	0511470	47μF	1A
C610	0511470	47μF	1B
C611	0519105	2.2μF 50V E.C. (BRN)	2B
R01	0106473	47kΩ 1/4W C.R. (E.L.R)	2A
R02	0107473	47kΩ	1A
R03	0107104	100kΩ 1/4W C.R.	2A
R04	0106104	100kΩ	1A
R05, 06	0106102	1kΩ	2A. 1A
R07, 08	0106222	2.2kΩ	2A. 1A
R09, 10	0106222	2.2kΩ	1, 2A. 1A
R11, 12	0106332	3.3kΩ	2B. 1A
R13, 14	0106104	100kΩ	1A
R15, 16	0106222	2.2kΩ	1A
R17, 18	0106222	2.2kΩ	1A
R19, 20	0106223	22kΩ	1A
R21, 22	0106683	68kΩ	1A, B. 1B

Conductor Side



Parts List

Parts No.	Stock No.	Description	Position
R23	0106273	27kΩ	1B
R24	0106273	27kΩ	1B
R25	0107223	22kΩ 1/4W C.R.	1B
R26	0106223	22kΩ	1B
R27	0106223	22kΩ 1/4W C.R. (E.L.R)	1B
R28	0106223	22kΩ 1/4W C.R. (E.L.R)	1B
R29	0107153	15kΩ 1/4W C.R.	2B
R30	0106153	15kΩ	2B
R31	0106153	15kΩ	2B
R32	0106153	15kΩ	2B
R33	0106101	100Ω 1/4W C.R. (E.L.R)	2A, B
R34	0106101	100Ω	1, 2A B
R35	0106101	100Ω	1A
R36	0106101	100Ω	1A, B
R37	0107152	1.5kΩ 1/4W C.R.	2B
R38	0106152	1.5kΩ	2B
R39, 40	0106104	100kΩ	1B. 1B, C
R41, 42	0106223	22kΩ	2B, C. 1B
R43, 44	0106273	27kΩ	1C
R45, 46	0106224	220kΩ	2B, C. 1B, C
R47, 48	0106224	220kΩ	1C
R49, 50	0106224	220kΩ	1B. C
R51, 52	0106224	220kΩ	1C
R53, 54	0106272	2.7kΩ	1C
R55, 56	0106272	2.7kΩ	1C
R57, 58	0106272	2.2kΩ	2B, C. 1C
R59, 60	0106272	2.7kΩ	1C
R61, 62	0106333	33kΩ	2C. 1C

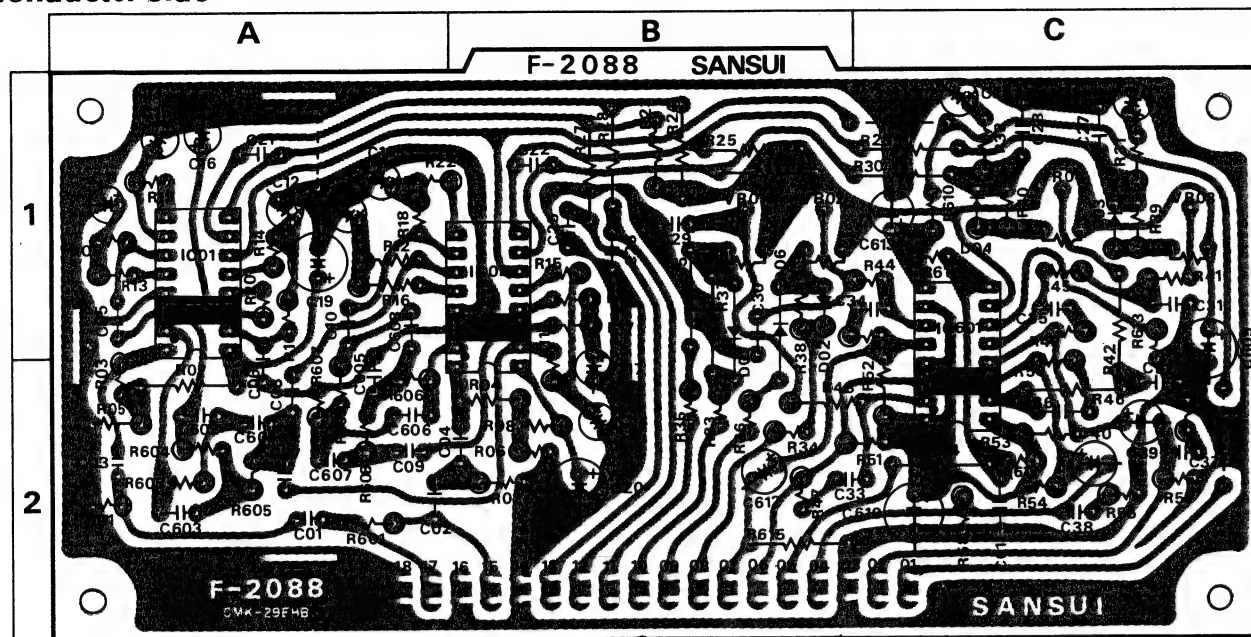


Parts No.	Stock No.	Description	Position
R63, 64	0106333	33kΩ	1C
R65, 66	0106472	4.7kΩ	2C
R67, 68	0106472	4.7kΩ	2C. 1C
R69, 70	0106104	100kΩ	2C
R71, 72	0106104	100kΩ	2C
R601	0106152	1.5kΩ	1A
R602	0106152	1.5kΩ	1A
R603	0106682	6.8kΩ	1A
R604	0106683	68kΩ	1, 2A
R605	0106183	18kΩ	2A
R606	0106224	220kΩ	2A
R607	0106154	150kΩ	2A
R608	0106182	1.8kΩ	2A
R609	0106153	15kΩ	2A
R610	0107223	22kΩ	2A
R611	0107822	8.2kΩ	2B
R612	0106104	100kΩ	2B
R613	0106152	1.5kΩ	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 μF	1 C
IC02	0360090-1	HA1327	1 A	C24	0515109	1 μF	1 C
IC601	3600100	HD3103	1, 2 C	C25	0600567	0.056 μF	1 B
D01	0311160	1S2473D	1, 2 B	C26	0600567	0.056 μF	1 B
D02	0311160	1S2473D	1 B	C27	0600567	0.056 μF	1 C
D03	0311160	1S2473D	1 C	C28	0600567	0.056 μF	1 C
D04	0311160	1S2473D	1 C	C29	0600107	0.01 μF	1 B
D05	0311160	1S2473D	1 B	C30	0600107	0.01 μF	1 B
D06	0311160	1S2473D	1, 2 B	C31	0600337	0.033 μF	1 C
VR01	1035490	1M Ω (B)	1 B	C32	0600337	0.033 μF	2 B
VR02	1035490	1M Ω (B)	1 B	C33	0600226	0.0022 μF	2 B C
VR03	1035490	1M Ω (B)	1 C	C34	0600226	0.0022 μF	1 C
VR04	1035490	1M Ω (B)	1 C	C35	0600226	0.0022 μF	1 C
C01	0600106	0.001 μF	2 A	C36	0600226	0.0022 μF	2 C
C02	0600106	0.001 μF	2 A	C37	0600187	0.018 μF	2 C
C03	0620331	330 pF	2 A	C38	0600187	0.018 μF	2 C
C04	0620331	330 pF	2 B	C39	0519102	2.2 μF	2 C
C05	0600396	0.0039 μF	1 A	C40	0519102	2.2 μF	2 C
C06	0600396	0.0039 μF	2 A	C601	0660101	100 pF	50V C.C.
C07	0620681	680 pF	2 A	C602	0600337	0.033 μF	2 A
C08	0620681	680 pF	2 A	C603	0600337	0.033 μF	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 μF	2 A
C11	0513479	4.7 μF	1 A	C606	0600687	0.068 μF	50V M.C.
C12	0513479	4.7 μF	1 A	C607	0620471	470 pF	2 A
C13	0513479	4.7 μF	2 B	C608	0620471	470 pF	50V P.C.
C14	0513479	4.7 μF	1 A	C609	0513330	33 μF	25V E.C.
C15	0513479	4.7 μF	1 A	C610	0513330	33 μF	2 C
C16	0513479	4.7 μF	1 A	C611	0660151	150 pF	50V C.C.
C17	0513479	4.7 μF	1, 2 B	C612	0519102	2.2 μF	50V E.C. (E.L.R)
C18	0513479	4.7 μF	1 A	C613	0513100	10 μF	25V E.C.
C19	0513330	33 μF	1 A	R01	0106224	220k Ω	2 A
C20	0513330	33 μF	2 B	R02	0106224	220k Ω	2 B
C21	0600687	0.068 μF	1 A	R03	0106684	680k Ω	1/4 W C.R. (E.L.R)
C22	0600687	0.068 μF	1 B	R04	0106684	680k Ω	2 B
				R05	0106334	330k Ω	2 A
				R06	0106334	330k Ω	2 B
				R07	0107684	680k Ω	1/4 W C.R.

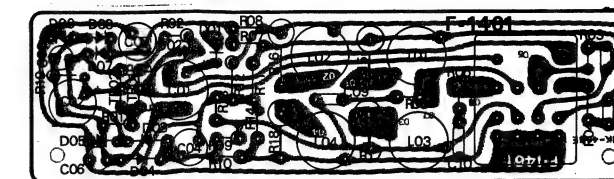
Parts List

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

6-11. F-1461A Protector Circuit Board

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

Conductor Side



Parts List

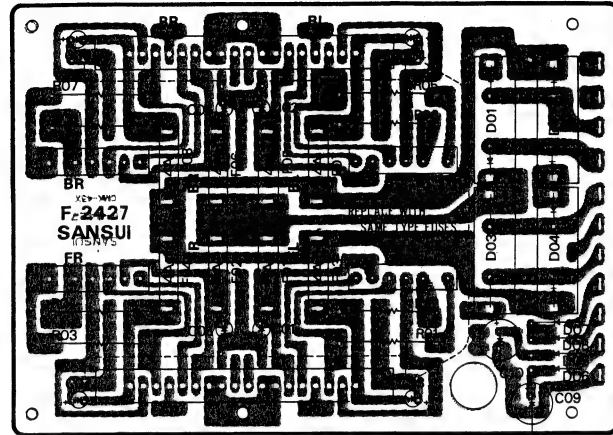
Parts No.	Stock No.	Description
TR01	0306132, 3	2SC1364 (7, 8) Transistor
TR02	0306132, 3	2SC1364 (7, 8) Transistor
D01	0310340	10D-1 Diode
D02	0310340	10D-1 Diode
D03	0310400	1N34A Diode
D04	0310400	1N34A Diode
D05	0310400	1N34A Diode
D06	0310400	1N34A Diode
D07	0310400	1N34A Diode
D08	0310400	1N34A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

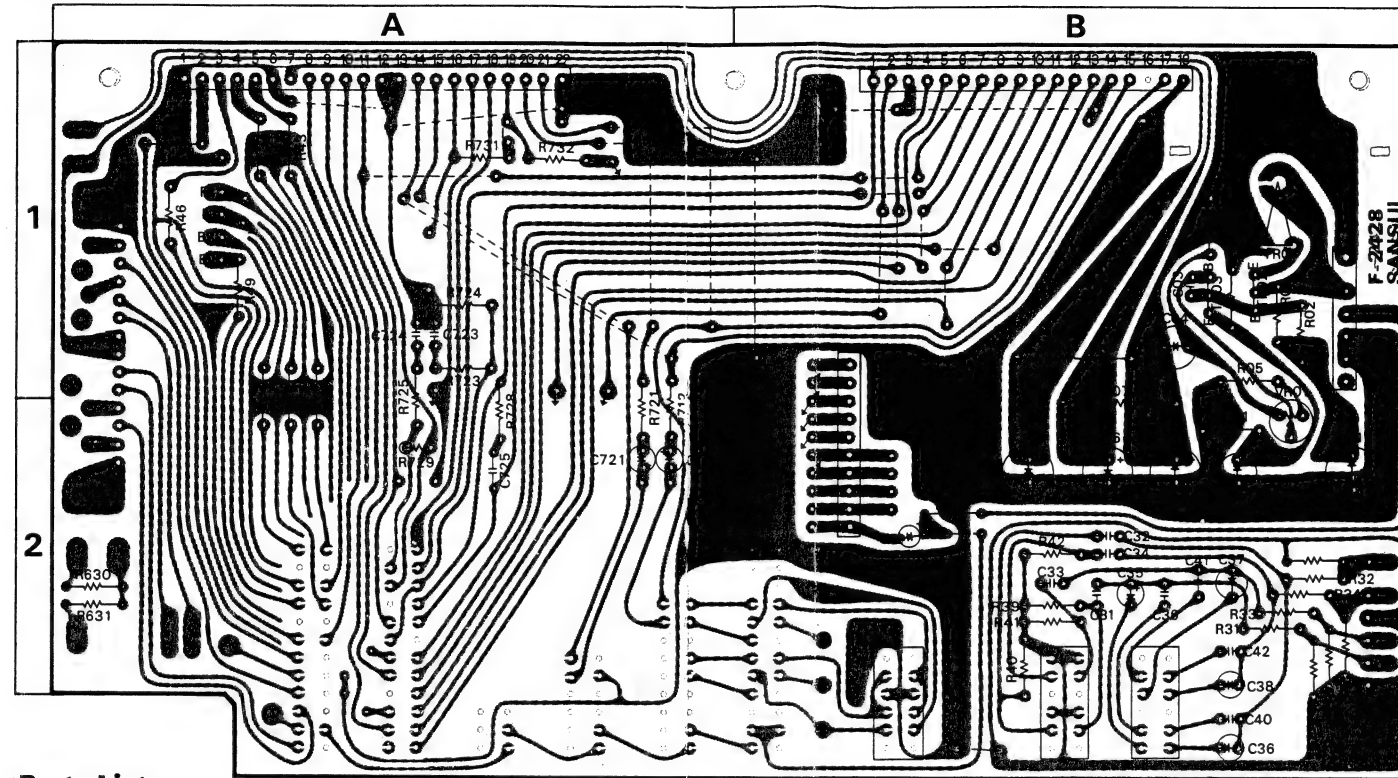


Parts List

Parts No.	Stock No.	Description
D01	0311310	SS-5
D02	0311320	SS-5R
D03	0311310	SS-5
D04	0311320	SS-5R
D05	0310340	10D-1
D06	0310340	10D-1
D07	0310340	10D-1
D08	0310340	10D-1
} Diode		
C01	0515109	1 μ F
C02	0515109	1 μ F
C03	0515109	1 μ F
C04	0515109	1 μ F
C05	0515109	1 μ F
C06	0515109	1 μ F
C07	0515109	1 μ F
C08	0515109	1 μ F
} 50V E.C.		
C09	0511471	470 μ F
C10	0511471	470 μ F
C901	0659011	0.01 μ F
C902	0659011	0.01 μ F
} 500V C.C.		
R01	0133338	0.33 Ω
R02	0133338	0.33 Ω
R03	0133338	0.33 Ω
R04	0133338	0.33 Ω
R05	0133338	0.33 Ω
R06	0133338	0.33 Ω
R07	0133338	0.33 Ω
R08	0133338	0.33 Ω
} 3W Ce.R.		
F01	0433630	4A
F02	0433630	4A
F03	0433630	4A
F04	0433630	4A
F05	0433630	4A
F06	0433630	4A
F07	0433630	4A
F08	0433630	4A
} 250V Quick Acting Fuse		

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

Conductor Side

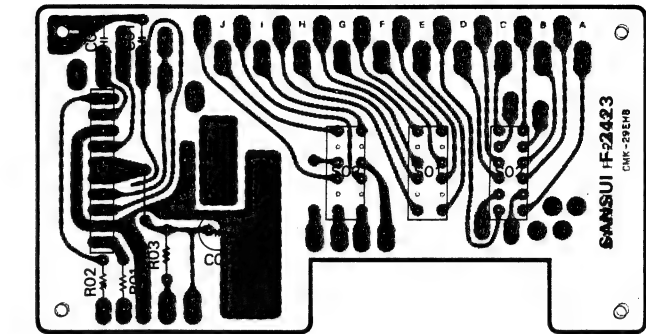


Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01	0305830-1	2SC1111 (R, O)	1 B	R04	0107223	22k Ω	1 B
TR02	0305930-2	2SC1211 (C, D, E)	1 B	R05	0107122	1.2k Ω	1 B
TR03	0306130-2	2SC1364 (5, 6, 7)	1 B	R06	0182181	180 Ω	1 B
ZD01	0315750	EQA-01-06R	2 B	R07	0182151	150 Ω	1 B
C01	0515101	100 μ F 50V E.C.	2 B	R31, 32	0107103	10k Ω	2 B
C02	0511101	100 μ F 10V E.C.	2 B	R33, 34	0107103	10k Ω	2 B
C03	0669008	0.001 μ F 50V C.C.	1 B	R35, 36	0107224	220k Ω	2 B
C04	0515470	47 μ F 50V E.C.	1 B	R37, 38	0107224	220k Ω	2 B
C05	0515101	100 μ F 50V E.C.	2 B	R39, 40	0107224	220k Ω	2 B
C06	0513221	220 μ F 25V E.C.	2 B	R43, 44	0107101	100 Ω	1 A
C07	0513221	220 μ F 25V E.C.	2 B	R45, 46	0107101	100 Ω	1 A
C31	0601566	0.0056 μ F 50V M.C.	2 B	R47, 48	0107101	100 Ω	1/4 W C.R.
C32	0601566	0.0056 μ F 50V M.C.	2 B	R49, 50	0107101	100 Ω	1A, 1.2 A
C33	0601566	0.0056 μ F 50V M.C.	2 B	R601	0192829	8.2 Ω 1/2 W Fuse Resistor	
C34	0601566	0.0056 μ F 50V M.C.	2 B	R620, 621	0107102	1k Ω 1/4 W C.R.	
C35	0519101	1 μ F 50V E.C. (BRN)	2 B	R721	0107562	5.6k Ω	1, 2 A
C36	0519101	1 μ F 50V E.C. (BRN)	2 B	R722	0107392	3.9k Ω	
C37	0519101	1 μ F 50V E.C. (BRN)	2 B	R723	0107681	680 Ω	1 A
C38	0519101	1 μ F 50V E.C. (BRN)	2 B	R724	0107152	1.5k Ω	1 A
C39	0601157	0.015 μ F 50V M.C.	2 B	R725	0107471	470 Ω	1/4 W C.R.
C40	0601157	0.015 μ F 50V M.C.	2 B	R726	0107182	1.8k Ω	1, 2 A
C41	0601157	0.015 μ F 50V M.C.	2 B	R727	0107182	1.8k Ω	
C42	0601157	0.015 μ F 50V M.C.	2 B	R728	0107121	120 Ω	1, 2 A
C601	0511331	330 μ F 10V E.C.	2 A	R729	0107563	56k Ω	2 A
C721	0513100	10 μ F 25V E.C.	2 A	R730	0107563	56k Ω	1 A
C722	0513100	10 μ F 25V E.C.	2 A	R731	0107563	56k Ω	1/4 W C.R.
C723	0600157	0.015 μ F 50V M.C.	1 A	R901, 902	0107824	820k Ω	
C724	0600227	0.022 μ F 50V M.C.	1 A	R903, 904	0107824	820k Ω	
C725	0600567	0.056 μ F 50V M.C.	2 A	VR01	1035350	4.7k Ω (B) Semi-Variable Resistor 1, 2 B (Solid Type)	
R01	0107472	4.7k Ω	1 B				
R02	0107472	4.7k Ω	1 B				
R03	0107562	5.6k Ω	1 B				

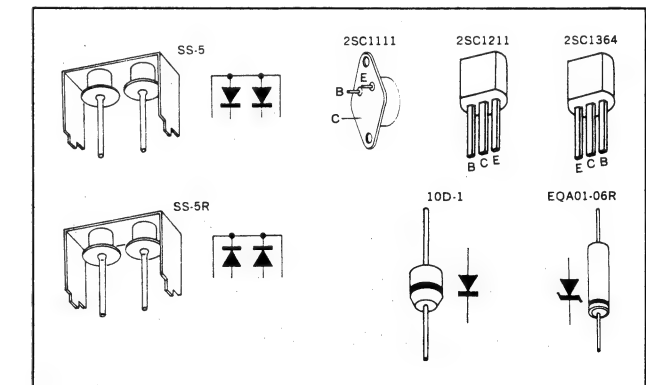
6-14. F-2423 Filter & Switch Circuit Board

Conductor Side



Parts List

Parts No.	Stock No.	Description
C01	0657473	0.047 μ F 50V C.C.
C02	0657473	0.047 μ F 50V C.C.
C03	0515101	100 μ F 50V E.C.
C901	0660221	220pF 50V C.C.
C902	0660221	220pF 50V C.C.
R01	0107101	100 Ω
R02	0107101	100 Ω
R03	0107101	100 Ω
} 1/4 W C.R.		
S01	1130940	SUB3-4 (3 Stage) Push Switch
S02	1130940	
S03	1130940	

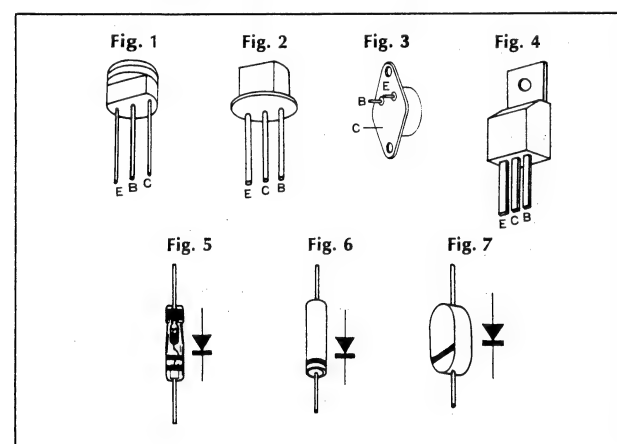


Abbreviations

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

6-15. Interchangeability of Transistor and Diode

ORIGINAL		SUBSTITUTES		
Name	Use	Name	Stock No	Figure
2SC930	F-1519	2SC1047	0305800	1
2SC711	F-1507	2SC1000	0305880	2
2SC1111	F-2428	2SC793	0305450	3
2SC1211	F-2428	2SC1124	0305900	4
2SC945	F-2090	2SC1000	0305880	2
2SC1222	F-2090	2SC1000	0305880	2
2SC1111	Power	2SC793	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	2SC1111 (R, O, Y)
TR702	0305830-2	2SC1111 (R, O, Y)
TR703	0305830-2	2SC1111 (R, O, Y)
TR704	0305830-2	2SC1111 (R, O, Y)
TR705	0305830-2	2SC1111 (R, O, Y)
TR706	0305830-2	2SC1111 (R, O, Y)
TR707	0305830-2	2SC1111 (R, O, Y)
TR708	0305830-2	2SC1111 (R, O, Y)
L701	{ 5266041 4200680 }	Holder, Bar Antenna Bar Antenna (ARS-28A)
C703	0559360	10000 μ F } 50V E.C.
C704	0559360	10000 μ F } 50V E.C.
C705	0559590	1000 μ F 63V E.C.
PT01	4002150	Power Transformer
PU01	{ 2410080 2410090 }	Voltage Selector, socket Voltage Selector, plug
	3800020	Power Cord
TS701	0320110	F-2426 Protector Circuit Board TS3-85 Thermistor
R01	0107223	22k Ω } $\frac{1}{4}$ W C.R.
R02	0107823	82k Ω } $\frac{1}{4}$ W C.R.

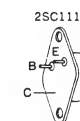
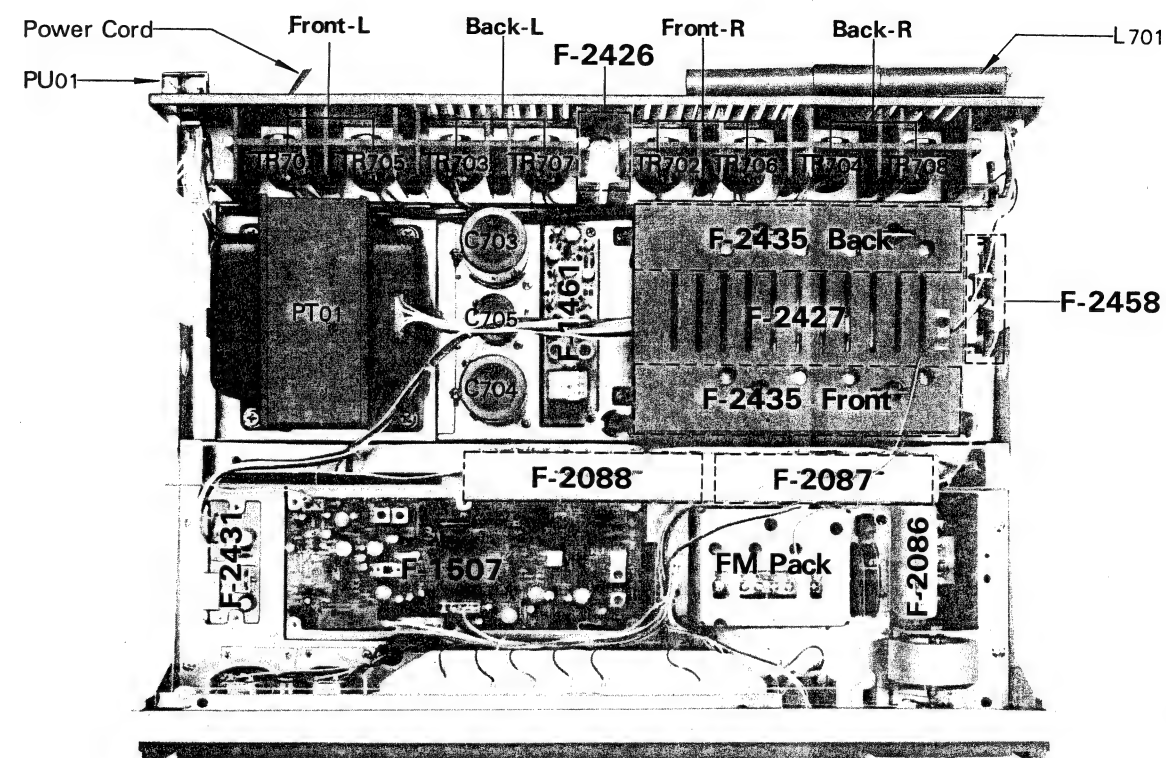
6-17. Other Parts (Bottom Side) Parts List

Parts No.	Stock No.	Description
L702	4290021	75 : 300 Ω FM Balun
C701	0605337	0.033 μ F } 250V Me.C.
C702	0605476	0.0047 μ F } 250V Me.C.
R701	0107122	1.2k Ω } $\frac{1}{4}$ W C.R.
R702	0171391	390 Ω } 1W M.R.
R703	0171391	390 Ω } 1W M.R.
R704	0171391	390 Ω } 1W M.R.
R705	0171391	390 Ω } 1W M.R.
R711	0107224	220k Ω } $\frac{1}{4}$ W C.R.
R712	0107224	220k Ω } $\frac{1}{4}$ W C.R.
R713	0107104	100k Ω } $\frac{1}{4}$ W C.R.
R714	0107104	100k Ω } $\frac{1}{4}$ W C.R.
F701	{ 0431300, 2 0431270, 2 2300060 }	7A (100~117V) } Power Fuse 4A (220~240V) } 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

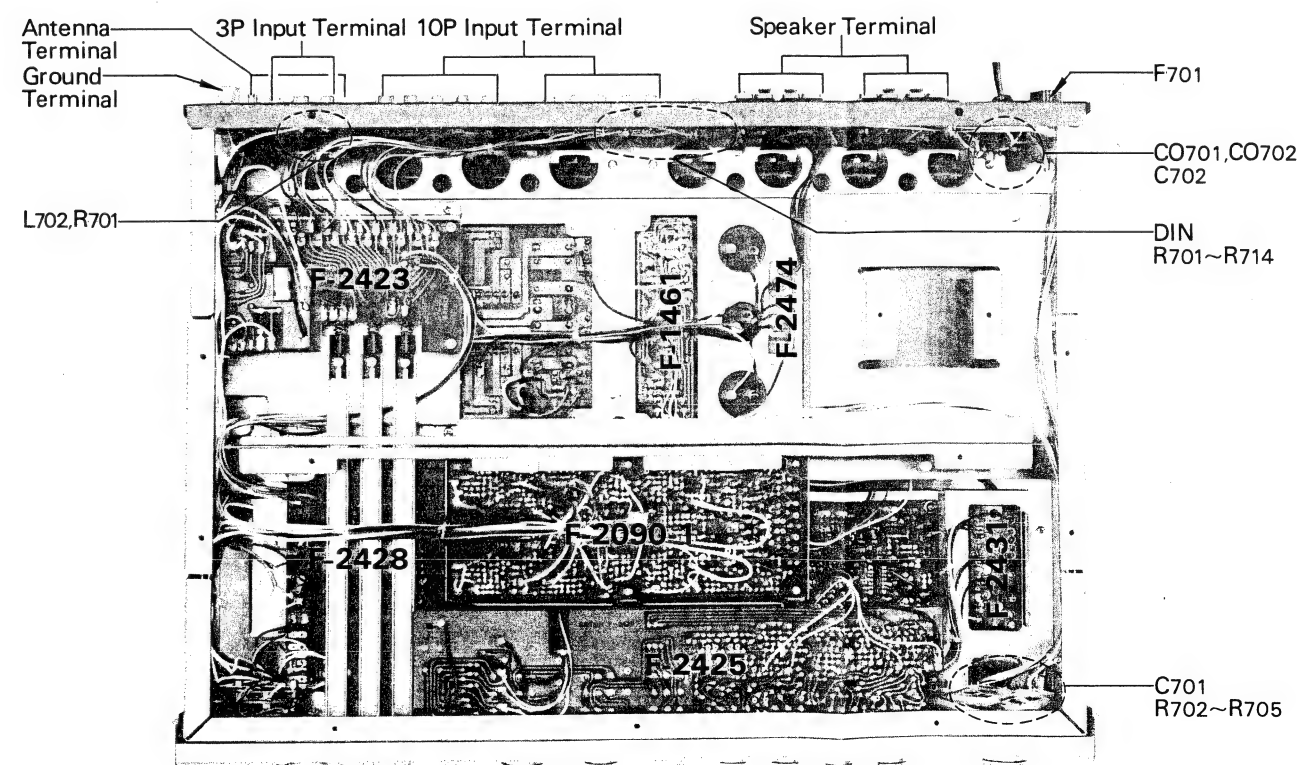
Abbreviations

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

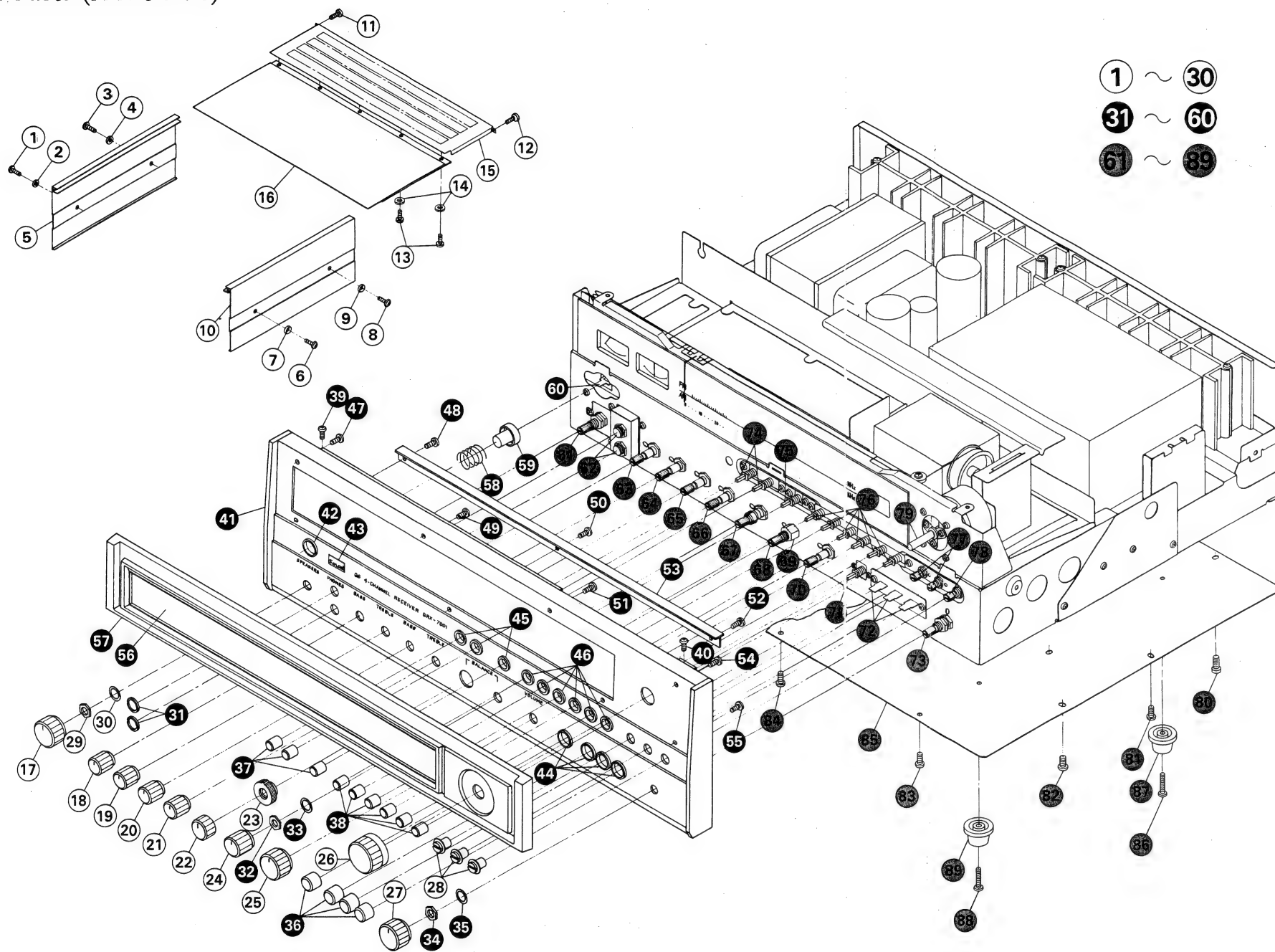
Top Side



Bottom Side



6-18. Other Parts (Front Side)



Parts List (Section 1)

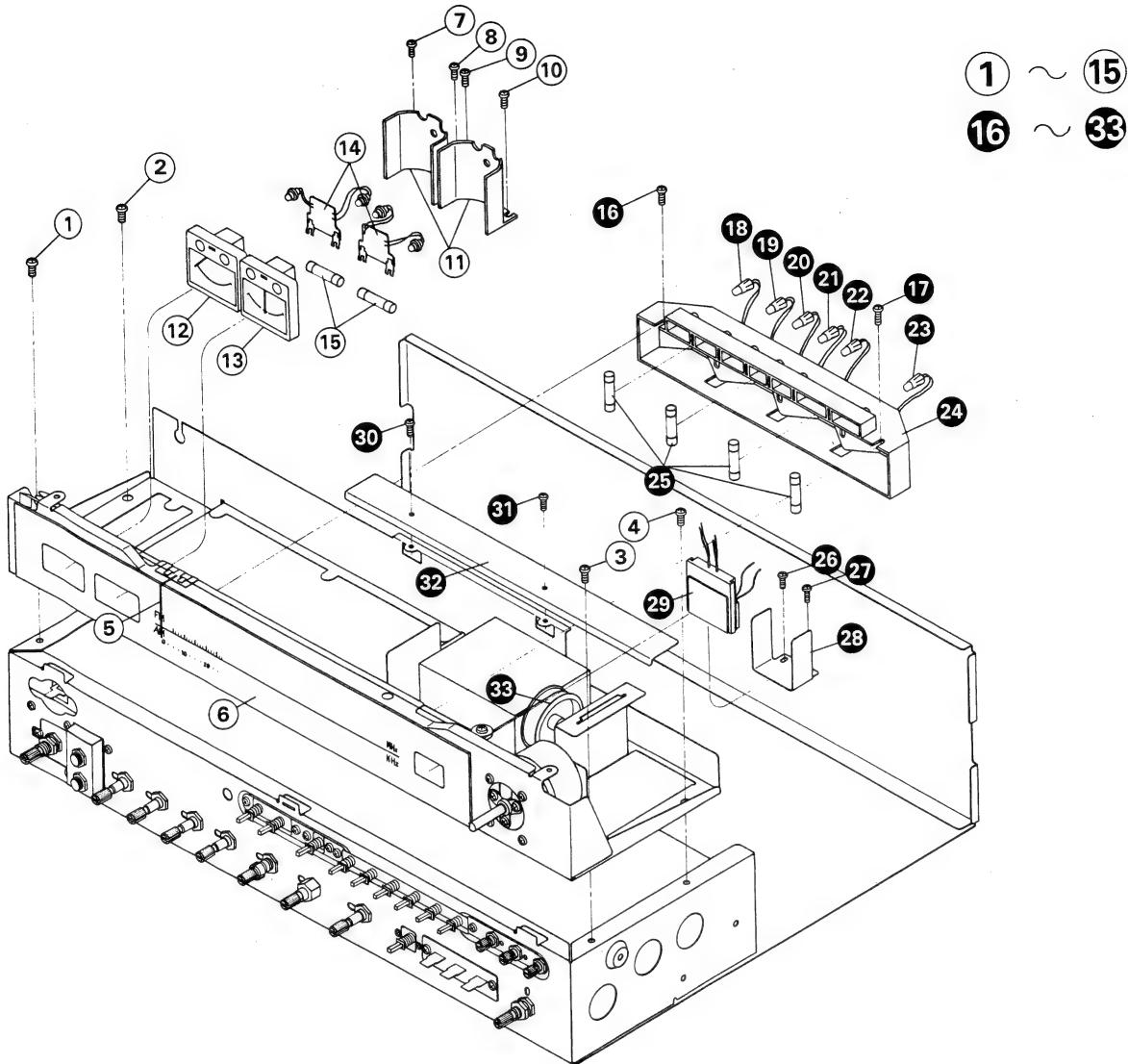
Parts No.	Stock No.	Description
1	5104162	Oval Countersunk Head Screw, M4×8
2	5123060	Corrugated Washer, M4φ
3	5104162	Oval Countersunk Head Screw, M4×8
4	5123060	Corrugated Washer, M4φ
5	5309400	Side Panel
6	5104162	Oval Countersunk Head Screw, M4×8
7	5123060	Corrugated Washer, M4φ
8	5104162	Oval Countersunk Head Screw, M4×8
9	5123060	Corrugated Washer, M4φ
10	5309400	Side Panel

Parts No.	Stock No.	Description
11	5109222	Binding Head Tapping Screw, 3×8
12	5109222	Binding Head Tapping Screw, 3×8
13	5101063	Binding Head Screw, M4×10
14	5120162	Washer, M4φ
15	5058250	Top Cover (Metal)
16	5726880	Top Cover (Wood)
17	5317730	M-3 Type Knob, SPEAKERS
18	5318060	S-8 Type Knob, BASS volume
19	5318060	S-8 Type Knob, TREBLE volume
20	5318060	S-8 Type Knob, BASS volume

Parts No.	Stock No.	Description
21	5318060	S-8 Type Knob, TREBLE volume
22	5317760	W1-2 Type Knob, BALANCE volume (Front)
23	5317671	W0-1 Type Knob, BALANCE volume (Back)
24	5317740	S-3 Type Knob, BALANCE volume
25	5317730	M-3 Type Knob, VOLUME
26	5318051	T-9 Type Knob, TUNING
27	5317730	M-3 Type Knob, SELECTOR
28	5318030	Knob, CD-4 volume
29	5110781	Hex. Nut, M9
30	5120184	Plain Washer, M9φ

Parts No.	Stock No.	Description
31	5176052	Nut, Jack
32	5110781	Hex. Nut, M9
33	5120184	Plain Washer, M9φ
34	5110781	Hex. Nut, M9
35	5120184	Plain Washer, M9φ
36	5326490	Push Button
37	5326430	Push Button
38	5326430	Push Button
39	5102543	Flat Countersunk Head Screw, M3×6
40	5102543	Flat Countersunk Head Screw, M3×6
41	7007010	Front Panel Ass'y
42	5186270	Knob Ring
43	5336500	Mark, Sansui
44	5396190	Knob Ring
45	5396200	Knob Ring
46	5396200	Knob Ring
47	5109122	Binding Head Tapping Screw, 3×8
48	5109122	Binding Head Tapping Screw, 3×8
49	5109122	Binding Head Tapping Screw, 3×8
50	5109122	Binding Head Tapping Screw, 3×8
51	5109122	Binding Head Tapping Screw, 3×8
52	5109122	Binding Head Tapping Screw, 3×8
53	5286010	Stopper, Grass Plate
54	5109122	Binding Head Tapping Screw, 3×8
55	5109122	Binding Head Tapping Screw, 3×8
56	5047780	Grass Plate
57	5309390	Frame, Grass 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	2430200	Headphone Jack
63	1010930, 1	100kΩ (B)×2, BASS Volume
64	1010930, 1	100kΩ (B)×2, TREBLE Volume
65	1010930, 1	100kΩ (B)×2, BASS Volume
66	1010930, 1	100kΩ (B)×2, TREBLE Volume
67	1060350, 1	250kΩ (MN)×4, BALANCE Volume (Dual Shaft VR)
68	1060360, 1	250kΩ (MN)×4, BALANCE Volume
69	5236450	Spacer Nut, M8×11, 5
70	1060340, 1	250kΩ (B)×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, PLUS BACK
76	1130930	Push Switch (6 Stage), FUNCTION
77	1005180	50kΩ (C), CD-4 SEPARATION Volume
78	1015120	10kΩ (B), CD-4 CARRIER LEVEL volume
79	7036361	Tuning Ass'y
80	5101161	Binding Head Screw, M4×6
81	5101161	Binding Head Screw, M4×6
82	5101161	Binding Head Screw, M4×6
83	5101161	Binding Head Screw, M4×6
84	5101161	Binding Head Screw, M4×6
85	5058240	Bottom Plate
86	5100665	Binding Head Tapping Screw, 4×16
87	5516821	Foot
88	5100665	Binding Head Tapping Screw, 4×16
89	5516821	Foot

6-19. Other Parts (Front Side)



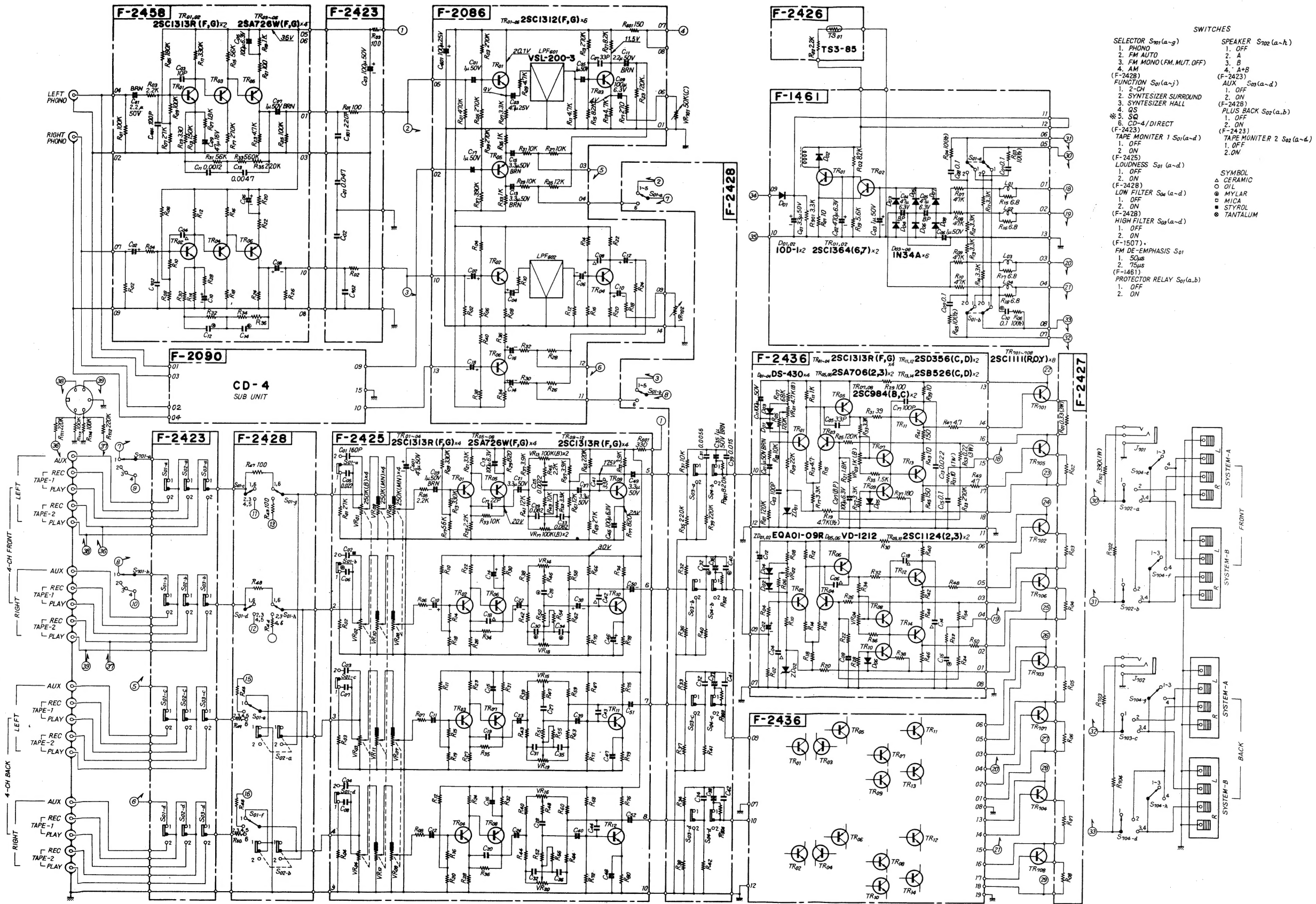
Parts List (Section 2)

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)

8. SCHEMATIC DIAGRAM OF AUDIO SECTION

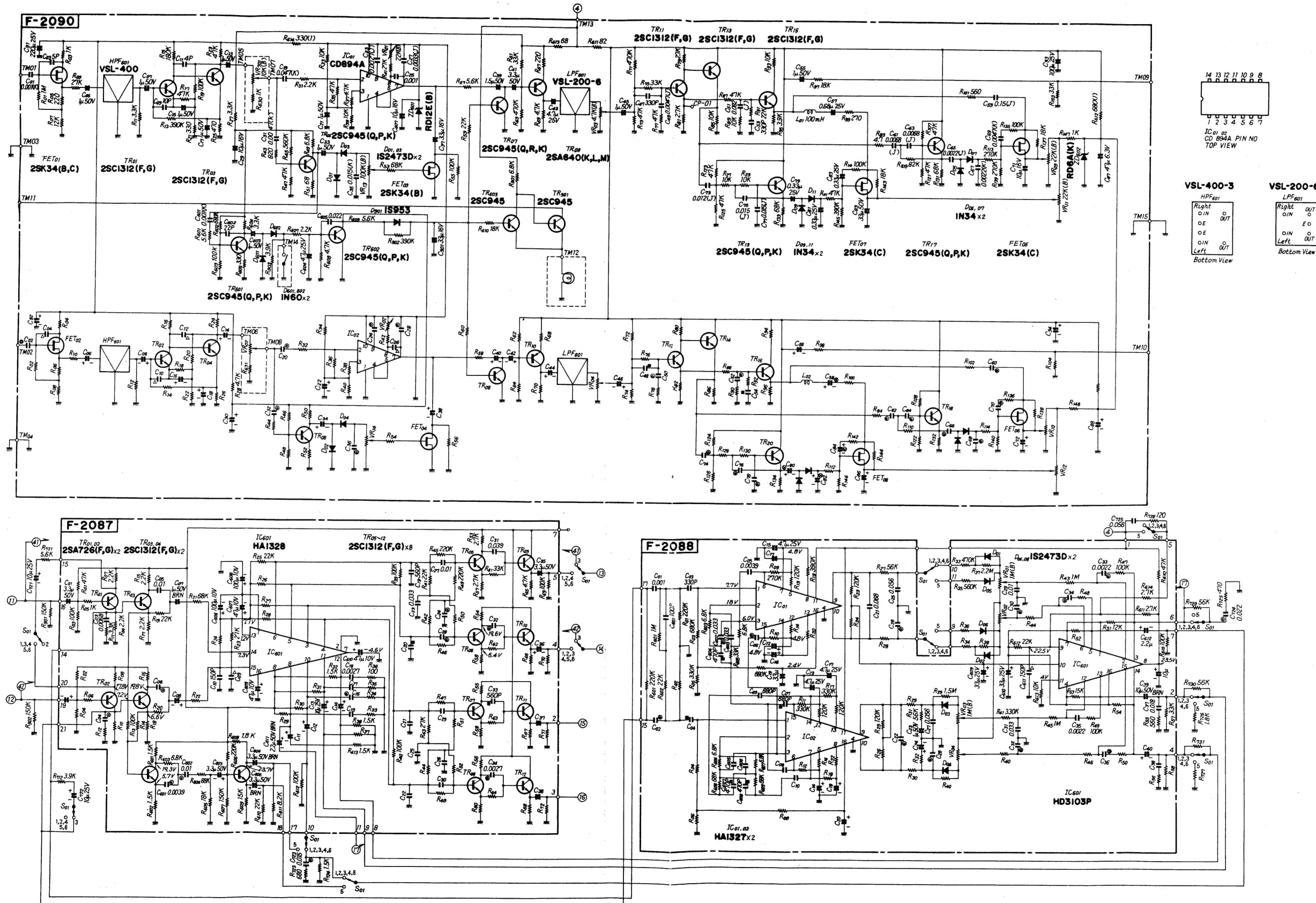
* Design and specifications subject to change without notice for improvements.



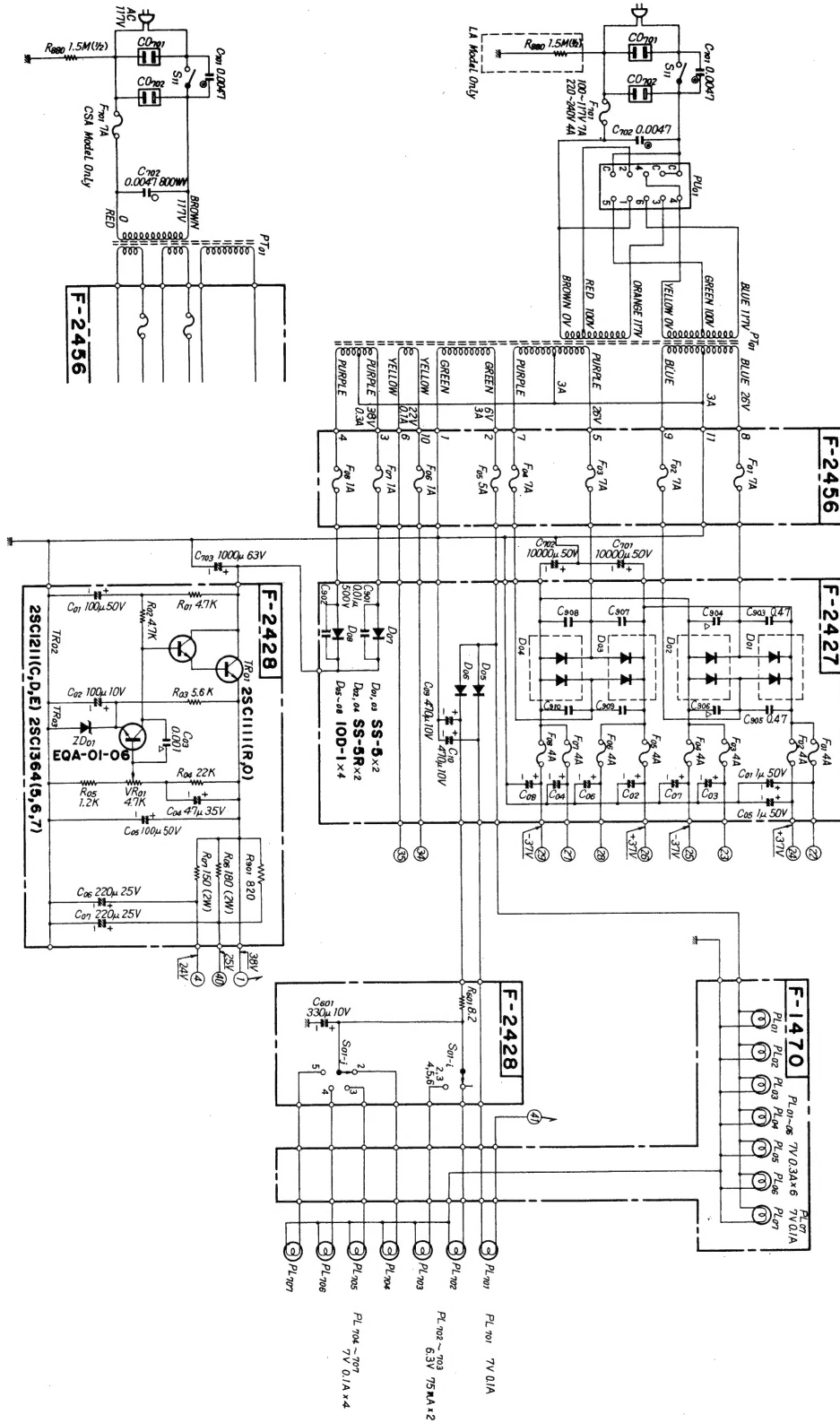
- SWITCHES**
- | | |
|--|---------------------------------------|
| SELECTOR S ₁₀₁ (a-g) | SPEAKER S ₁₀₂ (a-h) |
| 1. PHONO | 1. OFF |
| 2. FM AUTO | 2. A |
| 3. FM MONO (FM, MUT. OFF) | 3. B |
| 4. AM | 4. A+B |
| (F-2423) | (F-2423) |
| FUNCTION S ₁₀₁ (a-j) | AUX S ₁₀₁ (a-d) |
| 1. 2-CH | 1. OFF |
| 2. SYNTHESIZER SURROUND | 2. ON |
| 3. SYNTHESIZER HALL | (F-2428) |
| 4. QS | PLUS BACK S ₁₀₂ (a,b) |
| 5. SQ | 1. OFF |
| 6. CD-4/DIRECT | 2. ON |
| (F-2423) | (F-2423) |
| TAPE MONITOR 1 S ₁₀₁ (a-d) | TAPE MONITOR 2 S ₁₀₁ (a-d) |
| 1. OFF | 1. OFF |
| 2. ON | 2. ON |
| (F-2425) | (F-2425) |
| LOUDNESS S ₁₀₁ (a-d) | |
| 1. OFF | |
| 2. ON | |
| (F-1507) | |
| FM DE-EMPHASIS S ₁₀₁ | |
| 1. 50µs | |
| 2. 75µs | |
| (F-1461) | |
| PROTECTOR RELAY S ₁₀₁ (a,b) | |
| 1. OFF | |
| 2. ON | |
- SYMBOL**
- OIL
 - △ CERAMIC
 - MYLAR
 - ◇ MICA
 - STYROL
 - TANTALUM

9. SCHEMATIC DIAGRAM OF 4-CH SECTION

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

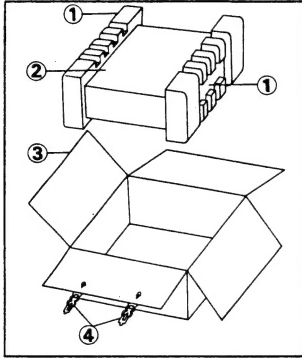


10. SCHEMATIC DIAGRAM OF POWER SUPPLY SECTION



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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