259

QS
4-CHANNEL STEREO

SERVICE MANUAL

4-CHANNEL RECEIVER

SANSUI QRX-5001

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-5001 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

1. SPECIFICATIONS

AUDIO SECTION

CONTINUOUS RMS POWER OUTPUT
.....17W per channel×4 (four channels driven)
LOAD IMPEDANCE 8Ω
POWER BAND .....30 to 20,000Hz
TOTAL HARMONIC DISTORTION
.....less than 0.5% (from AUX)
Music power(IHF).....160W (4Ω 1,000Hz)
100W (8Ω 1,000Hz)
Continuous rms power output..23×4W (8Ω 1,000Hz)
22×2W (two channels driven, 8Ω 1,000Hz)
INTERMODULATION DISTORTION (at rated power output 70Hz : 7,000Hz=4 : 1 SMPTE method)
.....less than 0.5% (from AUX)
FREQUENCY RESPONSE (at 1 Watt output)
.....30 to 30,000Hz ±1.5dB
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 120mV at 0.5% distortion)
4-CH./2-CH. AUX 100mV 50KΩ
4-CH./2-CH. TAPE
PLAY Pin Jacks 100mV 50KΩ
REC/PLAY DIN Socket ..100mV 50KΩ
RECORDING OUTPUT
4-CH./2-CH. TAPE
REC Pin Jacks 100mV
REC/PLAY DIN Socket ..30mV
CHANNEL SEPARATION (at 1,000Hz)
2-CH. PHONO .....better than 45dB
4-CH./2-CH. AUX .....better than 45dB
HUM AND NOISE (IHF)
2-CH. PHONO .....better than 60dB
4-CH./2-CH. AUX .....better than 70dB
SWITCHES AND CONTROLS
BASS .....+10dB, −10dB, at 50Hz
TREBLE .....+10dB, −10dB, at 10,000Hz
LOUDNESS .....+8dB at 50Hz
+3dB at 10,000Hz
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) 2.5μV
(max. input capability: more than 110dB)
TOTAL HARMONIC DISTORTION
MONO .....less than 0.4%
STEREO.....less than 0.7%
SIGNAL TO NOISE RATIO (mono)
.....better than 65dB
SELECTIVITY .....better than 60dB
CAPTURE RATIO (IHF).....less than 2.5dB
IMAGE REJECTION .....better than 55dB
IF REJECTION .....better than 60dB
SPURIOUS RESPONSE .....better than 65dB
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

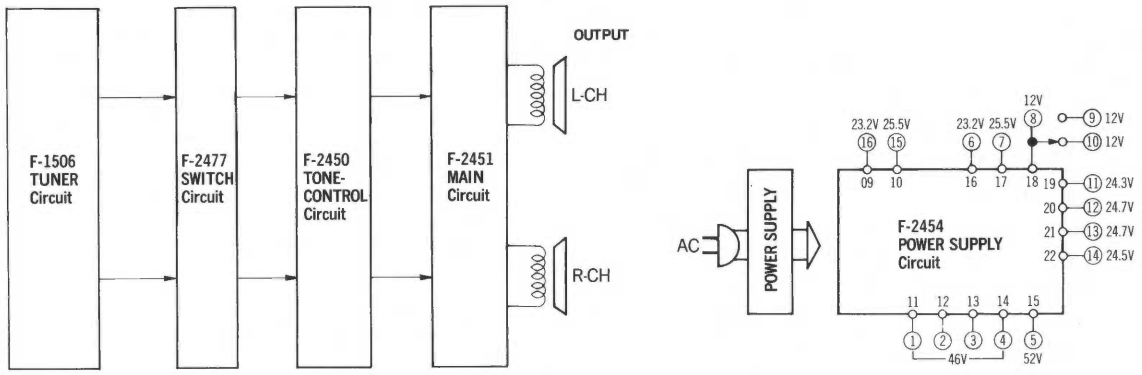
GENERAL

SEMICONDUCTORS
TRANSISTORS 90
Diodes 34
Zener Diodes 3
ICs.....13
FETs 9
LED 1
POWER REQUIREMENTS
Voltage.....100, 117, 220, 240V 50/60Hz
Consumption .....110W (rated), 300W (max.) 330VA
DIMENSIONS .....480mm (18 15/16") W, 135mm (5 3/8") H, 327mm (12 7/8") D
WEIGHT .....13.8 Kg (30.4 lbs) net, 15.5 Kg (34.2 lbs) packed

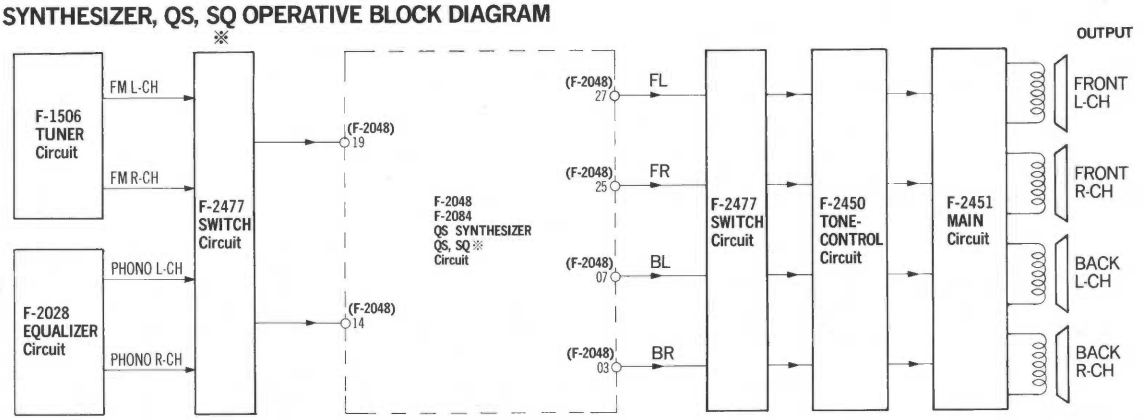
* Design and specifications subject to change without notice for improvements.

2. BLOCK DIAGRAM

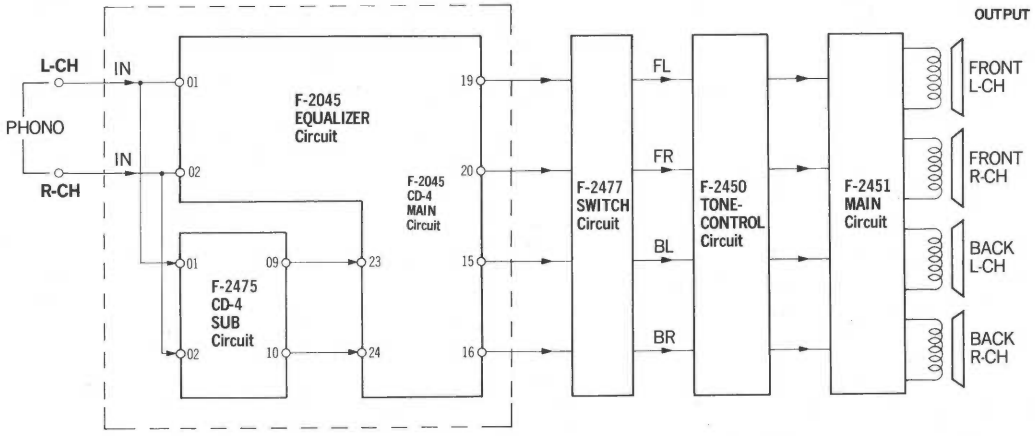
2-CH DIRECT OPERATIVE BLOCK DIAGRAM



QS SYNTHESIZER, QS, SQ OPERATIVE BLOCK DIAGRAM



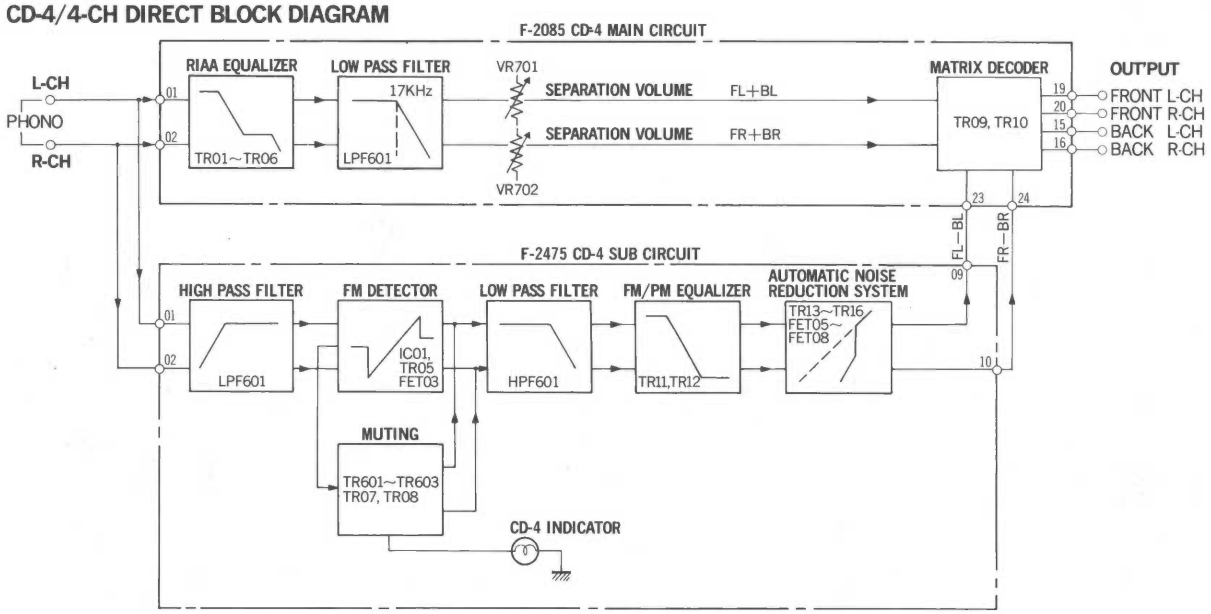
CD-4/4-CH DIRECT OPERATIVE BLOCK DIAGRAM



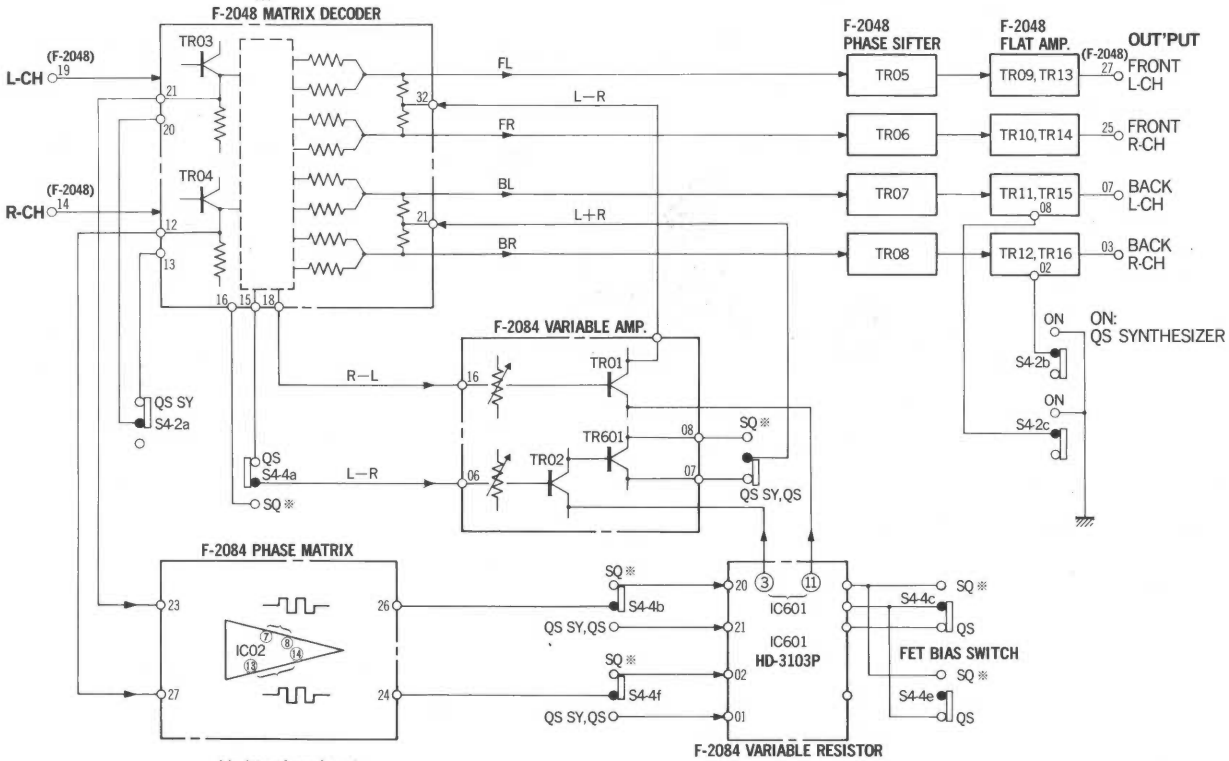
DC BIAS CURRENT	25±1mA		
CONTINUOUS POWER	8Ω	17W×4	11.7V
GAIN AND INPUT LEVEL	Input Terminal	Input level	Gain
	PHONO	2.5mV	73.3dB
	AUX	100mV	44.6dB

※SQ is a trade mark of CBS, INC"

CD-4/4-CH DIRECT BLOCK DIAGRAM



QS SYNTHESIZER, QS, SQ BLOCK DIAGRAM



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 Adjustments

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

※ Before adjustment of bias current, turn VR01 and VR02 fully cw (The bias current becomes minimum)

STEP	SUBJECT	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1	Bias current Front L-CH	DC milliammeter	F-2454 F04 (Fig. 3-1)	F-2451 VR01 (Fig. 3-2)	25±1mA	◦Step down meter's range accordingly.
2	Bias current Front R-CH	Same as above	F-2454 F05 (Fig. 3-1)	F-2451 VR02 (Fig. 3-2)	25±1mA	
3	Bias current Back L-C	Same as above	F-2454 F06 (Fig. 3-1)	F-2451 VR01 (Fig. 3-2)	25±1mA	
4	Bias Current Back R-CH	Same as above	F-2454 F07 (Fig. 3-1)	F-2451 VR02 (Fig. 3-2)	25±1mA	

Fig. 3-1

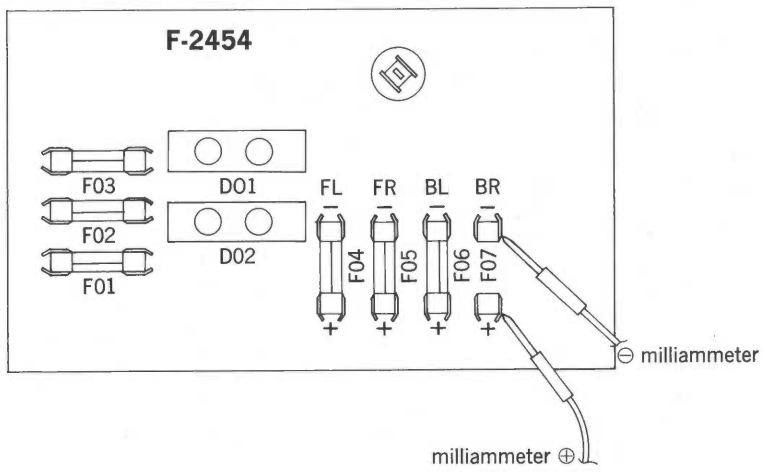
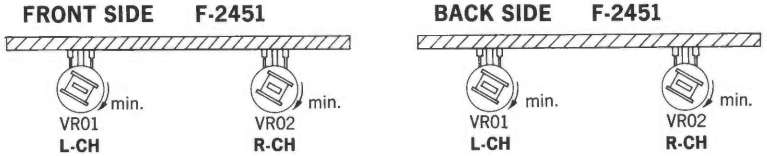
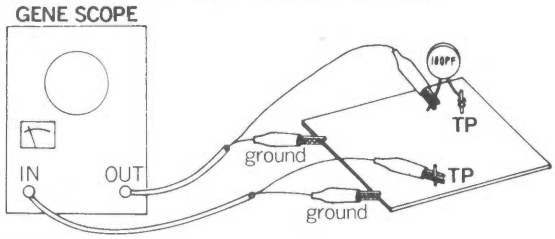


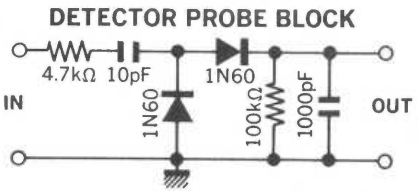
Fig. 3-2



3-2. FM IF Alignment (See Figs. 3-6, 3-7 on page 8)

Note: 1. Selector.....FM MONO
2. Output level of genescope .....After attenuator
3. Sweepwidth.....1.5~2cm/150kHz
4. Frequency band .....9.5~11.5MHz
5. Connection .....Connect the output of genescope to TP. 1 through 100pF ceramic capacitor.

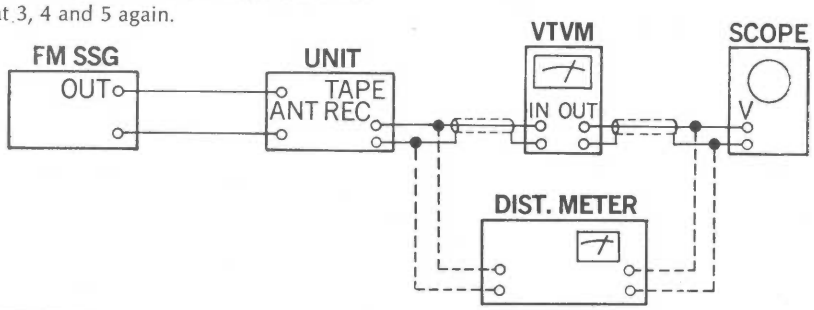


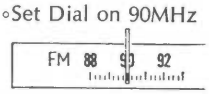
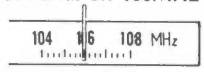


STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1	IF coil	Output 60dB Genescope	TP. 1 (Fig. 3-7)	TP. 2 (Fig. 3-7) Use Detector Probe	T01 (Fig. 3-7)	Max. IF waveform 1 as Fig. 3-6	◦Turn volume of VR02 CW. (Fig. 3-7)
2	Meter coil	Output 65dB Genescope	Same as above	TP. 4 (Fig. 3-7)	T04 (Fig. 3-7)	Max. IF waveform 2 as Fig. 3-6	
3	Descriminator coil	Same as above	Same as above	TP. 3 (Fig. 3-7)	T02 T03 (Fig. 3-7)	Max. linearity of S curve Set the center of S curve to of waveform 1 as Fig. 3-6	

3-3. FM Dial Calibration, Mono Distortion and RF Alignment (See Fig. 3-7 on page 8)

Note: 1. Selector.....FM MONO
2. Confirm start point of dial pointer before alignment.
3. In Step 3, 4 and 5, readjust items of steps 1, 2 if not correctly, repeat 3, 4 and 5 again.



STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1	90MHz Dial Calibration	90MHz ANT input 60dB 400Hz (100% MOD) FM SSG	ANT terminal 300Ω	REC OUT L or R-CH VTVM & Scope	L04 (Fig. 3-7)	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	Trimmer TC03 (Fig. 3-7)	Same as above	◦Set Dial on 106MHz 
3	Confirm 98MHz Dial Calibration	98MHz ANT input 60dB 1kHz (100% MOD) FM SSG	Same as above	Same as above		Confirm 98MHz Dial Calibration	◦If not, repeat from step 1, 2

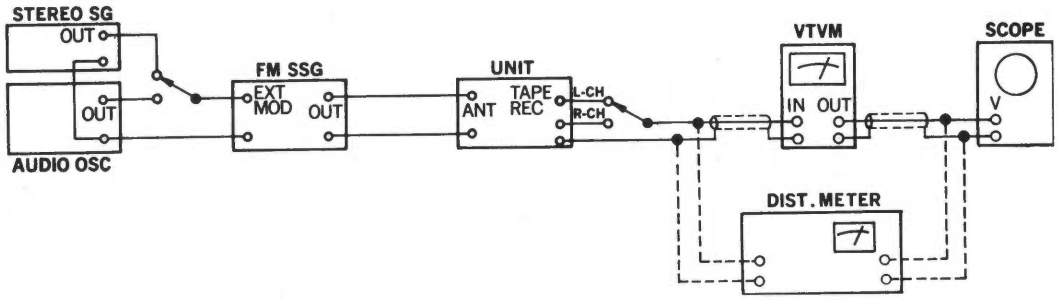
*to page 7

*from page 6

STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
4	90MHz RF Adj.	90MHz ANT input 50dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	L01, L02 (Fig. 3-7)	Max. output	◦Tune FM SSG (Max. indication of Signal Meter)
5	106MHz RF Adj.	108MHz ANT input 50dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	Trimmer TC01, TC02 (Fig. 3-7)	Same as above	◦Tune FM SSG (Max. indication of Signal Meter)
6	Distortion	98MHz ANT input 60bB 400Hz (100% MOD) FM SSG	Same as above	REC OUT L or R-CH Dist. meter & Scope	T03 (Fig. 3-7)	Min. distortion	Same as above

3-4. MPX Alignment (See Fig. 3-7 on page 8)

Note: 1. Selector.....FM STEREO



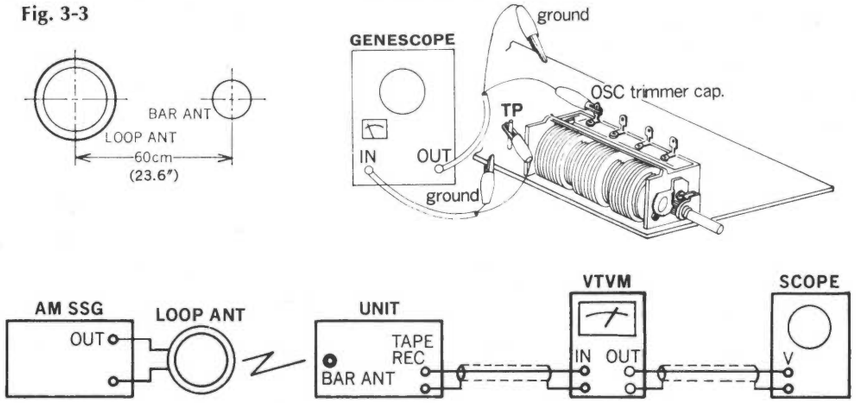
STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1	19kHz coil	98MHz ANT input 60dB FM SSG Pilot 19kHz (10% MOD) L-ch 1kHz (45% MOD) R-ch (0% MOD) Stereo SG	ANT terminal 300Ω	REC OUT L-CH VTVM & Scope	L07 (Fig. 3-7)	Max. output	◦Tune FM SSG (Max. indication of signal meter)
2	Separation	Same as above	Same as above	REC OUT R-CH VTVM & Scope	VR02 (Fig. 3-7)	Min. output	
3	Confirm Distortion	Same as above	Same as above	REC OUT L-C VTVM1 Scope & Dist Meter			◦If over than 0.8% slightly adjust L07 (Fig. 3-7)
4	Confirm Separation	98MHz ANT input 60dB FM SSG Pilot 19kHz (10% MOD) L-ch (0% MOD) R-ch 1kHz (45% MOD) Stereo SG	Same as above	REC OUT L-CH VTVM & Scope			◦If less than 32dB adjust VR02 (Fig. 3-7)

※ Indicator liting level and muting level are not adjustable on QRX-5001. These levels are set up to the followings.
Indicator lighting level.....27dB
Muting level 27dB

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

Note: 1. Selector.....AM
2. Confirm start point of dial pointer before alignment.
3. 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 shown in the following steps. (See Fig. 3-3).

Fig. 3-3



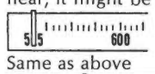
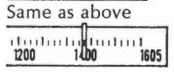
STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1	IF coil	Output 60dB Genescope	OSC trimmer cap. TC04 (Fig. 3-7)	TP. 5 (Fig. 3-7)	T07 (Fig. 3-7)	Max. IF waveform (Fig. 3-4)	◦Turn core CCW.
2	IF coil	Output 60dB Genescope	Same as above	Same as above	T05 (Fig. 3-7)	Max. IF waveform (Fig. 3-5)	
3	IF coil	Output 60dB Genescope	Same as above	Same as above		Max. IF waveform (Fig. 3-6)	◦If not, readjust T07 & T05 slightly
4	535kHz Dial Calibration	535kHz ANT input 60dB 400Hz (30% MOD) AM SSG	ANT terminal	REC OUT L or R-CH VTVM & Scope	T06 (Fig. 3-7)	Max. output	◦If broadcasting station is near, it might be used 
5	1400kHz Dial Calibration	1400kHz ANT input 60dB 400Hz (30% MOD) AM SSG	Same as above	Same as above	Trimmer TC04 (Fig. 3-7)	Same as above	Same as above 
6	Confirm 1000kHz Dial Calibration	1000kHz ANT input 60dB 400Hz (30% MOD) AM SSG	Same as above	Same as above		Confirm 1000kHz Dial Calibration	◦If not, repeat from Step 4, 5
7	600kHz RF Adj.	600kHz ANT input 50dB 400Hz (30% MOD) AM SSG	Same as above	Same as above	Bar ANT L701	Max. output	
8	1400kHz RF Adj.	1400kHz ANT input 50dB 400Hz (30% MOD) AM SSG	Same as above	Same as above	Trimmer TC05 (Fig. 3-7)	Same as above	
9	Confirm 100kHz RF Adj.	1000kHz ANT input 50dB 400Hz (30% MOD) AM SSG	Same as above	Same as above		Confirm 1000kHz RF Adj.	◦If not, repeat from step 7, 8

Fig. 3-4

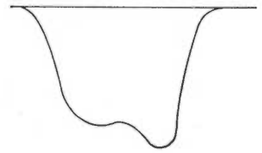


Fig. 3-5

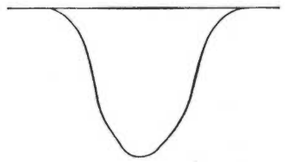


Fig. 3-6

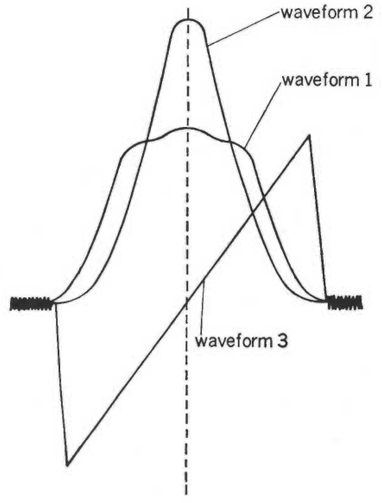
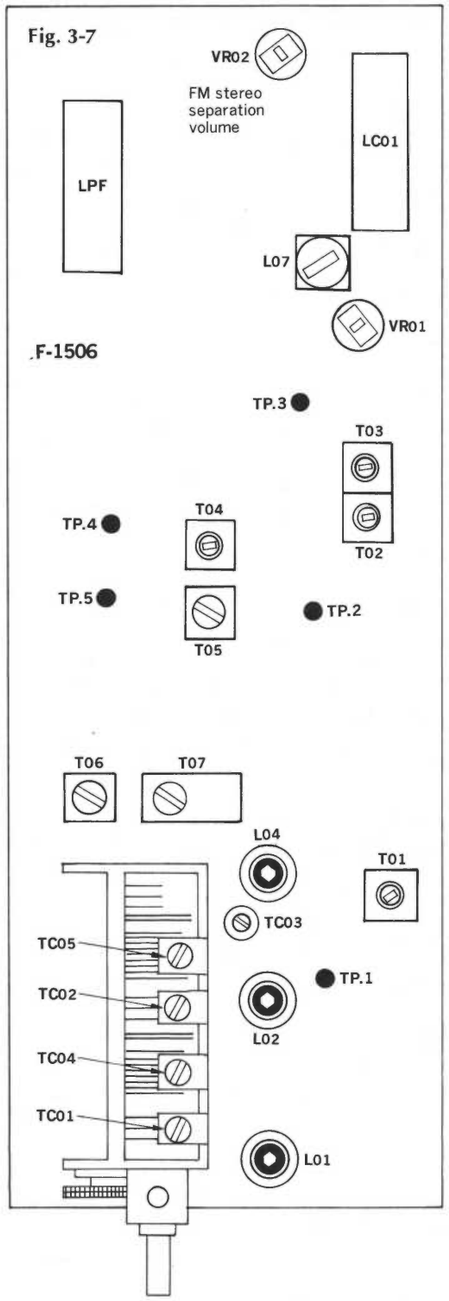


Fig. 3-7



4. TROUBLESHOOTING CHART

Notices:

※When repairing the unit, refer to schematic diagram, block diagram, adjustment and Fig. 4-2, Fig. 4-3.

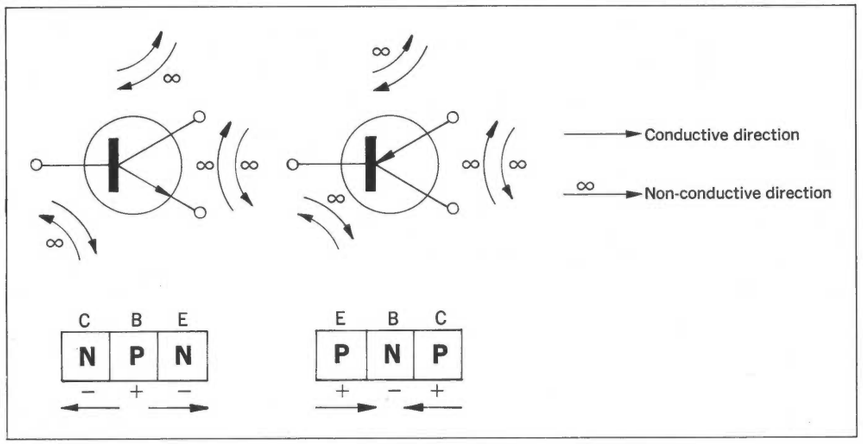
※Each voltage value shown in the schematic diagram is slightly different from an actual measured value. The each value was measured by V.T.V.M. at no input signal.

※In order to check the normal conductibility of transistor by volt-ohm meter (V.O.M.), please see to the arrow direction showing current flows in Fig. 4-1.

1. Put lead + side of V.O.M. to emitter or collector and lead − side to base of N.P.N. transistor.
2. Put lead − side of V.O.M. to emitter or collector and lead + side to base of P.N.P. transistor.

(Terminal −, (+) of V.O.M. is connected with +, (−) side of battery insid).

Fig. 4-1



4-1. Troubleshooting on Audio Section

Symptom	Check Point	Cause & What to Do
1. Troubles on main circuit		
1-1. Main circuit inoperative	1) Defective power supply circuit	1. Defective power supply circuit Board F-2454
	2) Power transistor shorted (Quick acting fuse open)	2. Shorted speaker terminals by speaker wires
		3. Over bias current due to inproper adjustment of VR01
		4. Driver transistor, TR03, TR05 or TR07 shorted
		5. C705 or R25 shorted
1-2. Low sound level from speaker		6. Low input level (See Fig. 4-2)
		7. Low AC power line voltage and mis-plug on voltage selector to line voltage
		8. R15 shorted
		9. Defective TR01, TR03
1-3. Distorted sound		10. Varistor diode, D01 shoreted or opened
		11. NF loop, C09 or R15 opened
		12. Input capacitor, C01 shorted
1-4. Continuous self oscillation		13. NF capacitor C05, C13 opened

4-2. Troubleshooting on Tuner Section

Symptom	Check Point	Cause & What to Do
1. FM and AM inoperative		
1-1. +12V not supplied to terminal [19], [20], [21] on F-1506		1. Defective power supply section (F-2454)
1-2. +12V supplied to terminal [19], [20], [21] on F-1506		2. Defective LPF01 on F-1506
		3. Defective TR09, TR10 on F-1506
2. FM Section		
2-1. FM inoperative only *Selector switch....FM MONO (MUTING OFF)	1) Signal meter inoperative (No output signal at checkpoint TP02)	4. IF, RF out of adjustment on F-1506
		5. Defective L01~L04 on F-1506
		6. Defective T01 on F-1506
		7. Defective FET01 on F-1506
		8. Defective TR01~TR05 on F-1506
		9. Defective CF01, CF02 on F-1506
	2) Signal meter operative (No output signal at checkpoint TP03)	10. Defective IC01 on F-1506
		11. Defective T01, T02 on F-1506
		12. Defective D01, D02 on F-1506
2-2. Stereo indicator lamp not lighted *Selector switch....FM STEREO (MUTING ON)	1) No channel separation on FM stereo broadcasting	
	1-1) MPX output signals including R and L not supplied to [11] and [12] of IC03 on F-1506	13. Defective IC03 on F-1506
		14. L07 out of adjustment on F-1506
		15. Defective L07 on F-1506
		16. Defective LC01 on F-1506
		17. Defective VR02 on F-1506
	2) Channel separation operative on FM stereo broadcasting	18. Defective stereo indicator lamp, PL705
		19. Defective TR12 on F-1506
2-3. Signal meter inoperative (FM broadcasting sound can be heard)		20. Defective TR06 on F-1506
		21. Defective T04 on F-1506
		22. Defective D03, D04 on F-1506
		23. Defective signal meter
2-4. Muting circuit inoperative		24. Defective TR07, TR08 on F-1506
		25. Defective Selector swich, S702
	1) FM Section becomes inoperative when the Muting is switched ON. (Selector switch to FM stereo)	26. Poor sensitivitv due to incorrect tracking IF adjustment

Symptom	Check Poiut	Cause & What te Do

3. AM Section

3-1. AM inoperative

1) Signal meter operative (AM broadcasting sound can not be heard)
   - 27. Defective TR11 on 1506
   - 28. Defective TR09, TR10 on F-1506
   - 29. Defective LPF01 on F-1506

2) Signal meter inoperative (AM broadcasting sound can not be heard)
   - 30. Defective IC02 on F-1506
   - 31. Defective T05~T07 on F-1506
   - 32. Defective L05, L06 on F-1506
   - 33. Defective bar antenna, L701
   - 34. RF, IF out of adjustment on F-1506

Fig. 4-2 AUDIO SECTION BLOCK DIAGRAM

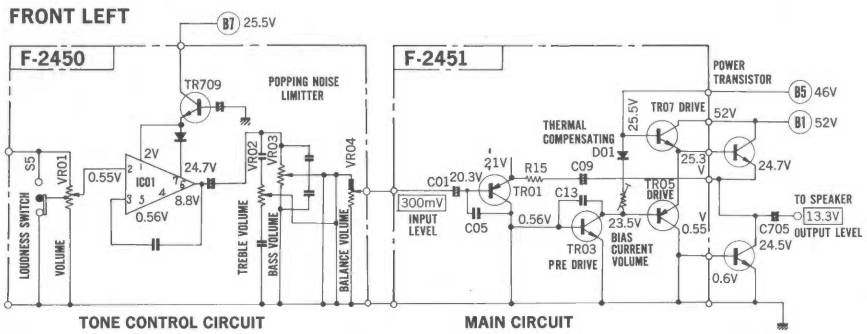
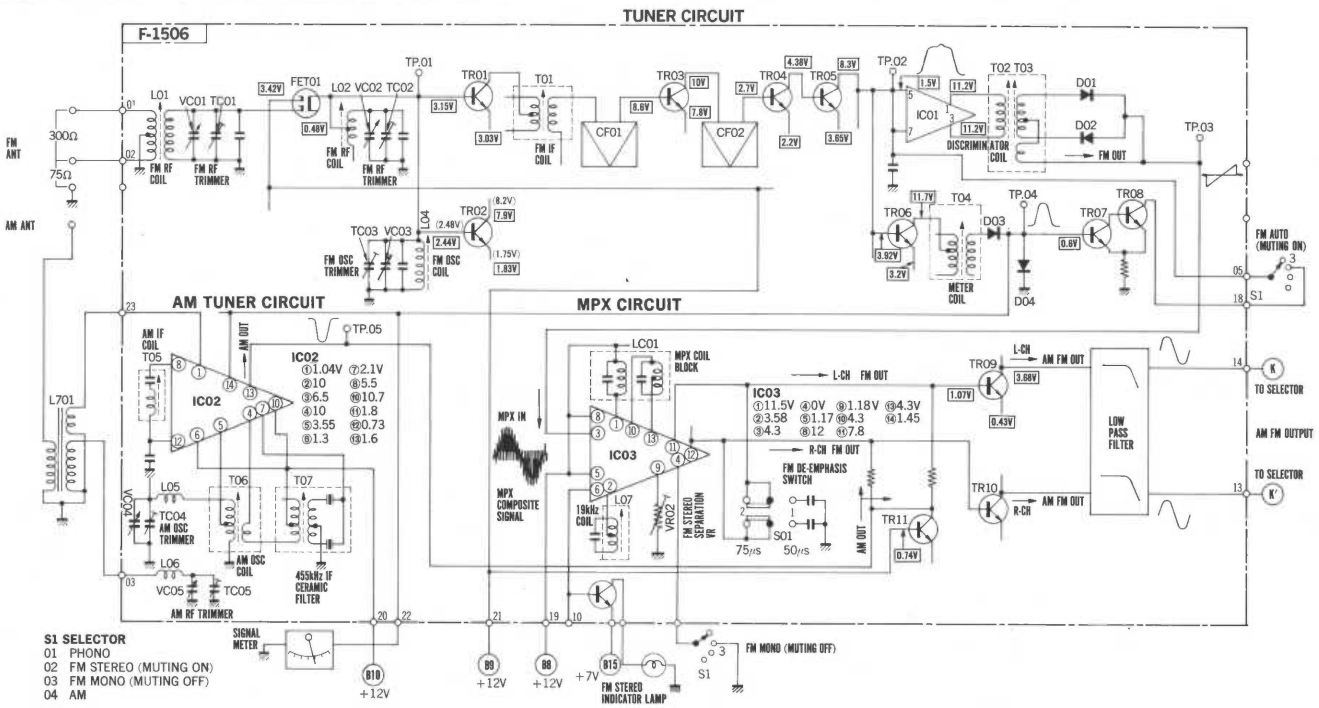


Fig. 4-3 TUNER SECTION BLOCK DIAGRAM



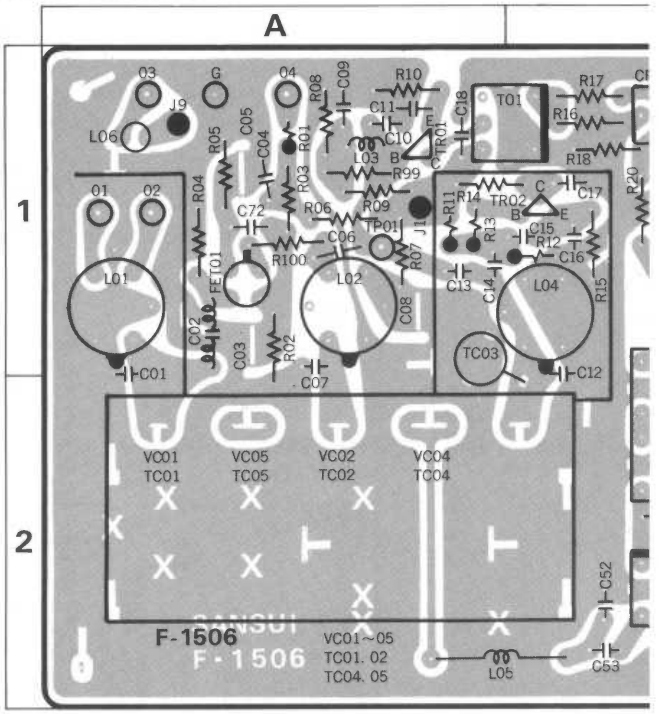
5. PARTS LOCATIONS AND PARTS LIST

5-1. F-1506 Tuner Circuit Board (Stock No. 7520830 Complete Circuit Board F-1506)

Parts List

Parts No.	Stock No.	Description		Position
TR01	0305801	2SC1047B (G)	Transistor	1 A
TR02	0305790, 1	2SC930 (C, D)		1 B
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)		1 C
TR07	0305731, 2	2SC711 (E, F)		2 C
TR08	0305731, 2	2SC711 (E, F)		2 C
TR09	0306090, 1	2SC1312 (F, G)		2 D
TR10	0306090, 1	2SC1312 (F, G)		2 D
TR11	0305731, 2	2SC711 (E, F)		1 C
TR12	0300221 or 0300311	2SA562 (Y) or 2SA697 (O)		1 D
IC01	0360120	μPC555H	IC	1 B, C
IC02	0360150	HA1151		1, 2 B
IC03	0360080	HA1120		1 D
FET01	0370120, 1	3SK41 (L, K)	FET	1 A
D01	0311060	1N60P	Diode	1 C
D02	0311060	1N60P		1 C
D03	0311160	1S2473D		2 C
D04	0340090	DS430		2 C
T01	4235930	FM IF Coil		1 A, B
T02	4235750	FM Discriminator Coil		1 C
T03	4235760			1 C
T04	4235940	FM Meter Coil		1, 2 C
T05	4230620	AM IF Coil		1, 2 B C
T06	4220550	AM OSC Coil		2 B
T07	0910270	Ceramic Filter		1, 2 B
L01	4200560	FM ANT Coil		1 A
L02	4210300	FM RF Coil		1 A
L03	4010120	Peaking Coil		1 A
L04	4220530	FM OSC Coil		1 A, B
L05	4290011	Peaking Coil		2 A, B
L06	4900100	Inductor Coil		1 A
L07	4240720	19kHz MPX Coil		1 D
LC01	4240710	MPX Coil Block		2 D
CF01	0910150	Ceramic Filter		1 B
CF02	0910150			1 B
LPF01	0910220	Low Pass Filter		2 D
VC	1220170	Variable Capacitor		1, 2 B
TC03	1230090	Trimmer Capacitor		1 A
VR02	1035070	1kΩ(B) FM STEREO Separation VR		1 D
C01	0669369	8.2pF	50V C.C.	1 A
C02	0650102	1000pF		1 A
C03	0659015	2200pF		1 A
C04	0657223	22000pF		1 A
C05	0659015	2200pF		1 A
C06	0669002	3.9pF		1 A
	0669205	3.9pF		
C07	0669370	10pF		1 A
C08	0659015	2200pF		1 A

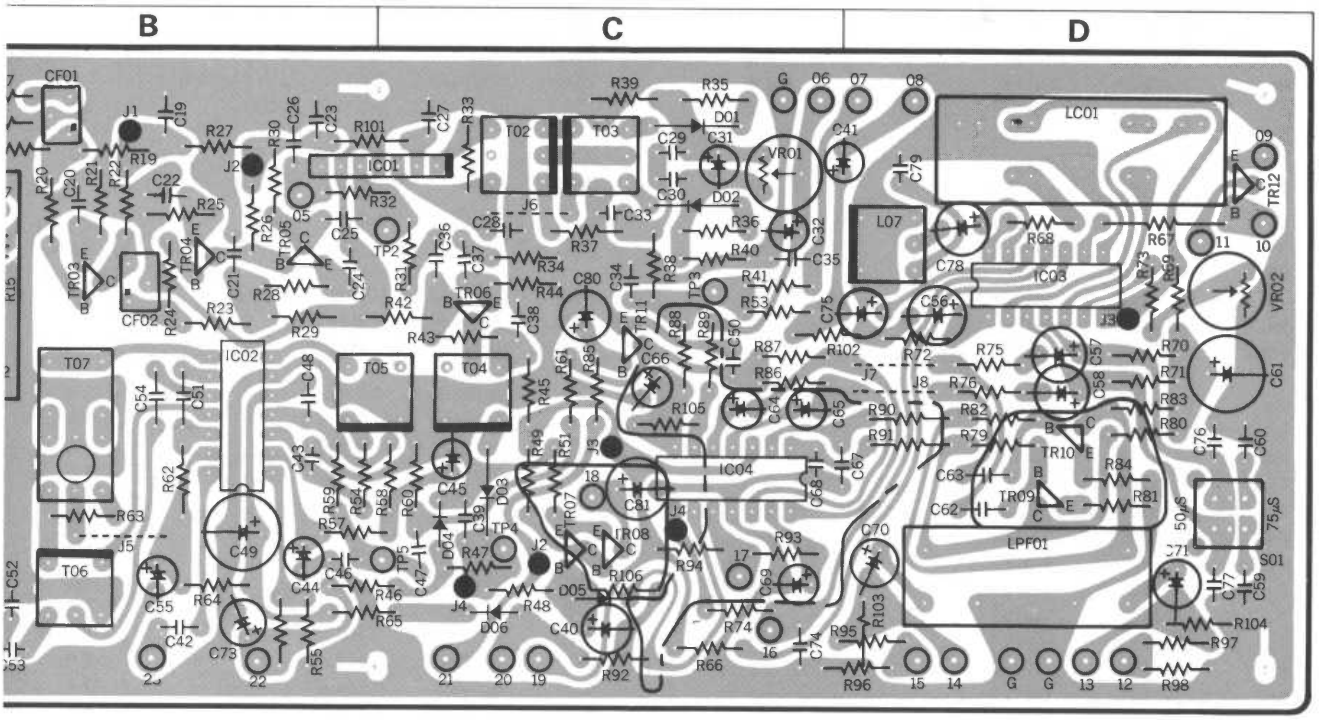
Conductor Side



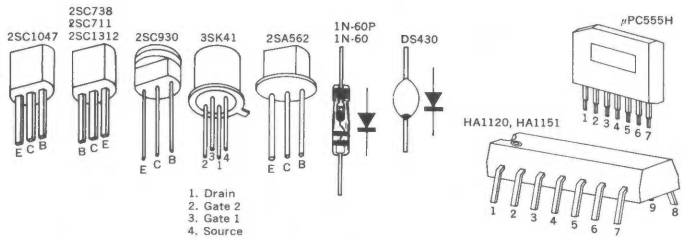
Parts No.	Stock No.	Description			Position
C09	0650102	1000pF			1 A
C10	0661220	22pF			1 A
	0669221	22pF			
C11	0657223	22000pF			1 A
C12	0669370	10pF			1 A, B
C13	0669200	1pF			1 A
C14	0669395	10pF			1 A
C15	0669395	10pF	50V	C.C.	1 B
C16	0669370	10pF			1 B
C17	0657223	22000pF			1 B
C18	0657223	22000pF			1 A
C19	0657473	0.047μF			1 B
C20	0657223	22000pF			1 B
C21	0601227	0.022μF			1 B
C22~28	0657223	22000pF			1 B . 1 C
C29, 30	0660101	100pF			1 C
C31	0512100	10μF	16V	E.C.	1 C
C33, 34	0660101	100pF	50V	C.C.	1 C
C36~39	0657223	22000pF			1 C . 2 C
C40	0515109	1μF	50V	E.C.	2 C
C42	0657223	22000pF	50V	C.C.	2 C
C43	0601106	0.001μF	50V	M.C.	2 B
C44	0515109	1μF	50V	E.C.	2 C
C45	0515100	10μF			
C46	0601337	0.033μF	50V	M.C.	2 B
C47	0601477	0.047μF			2 C
C48	0601107	0.01μF			2 B
C49	0512101	100μF	16V	E.C.	2 B
C50	0601476	0.0047μF	50V	M.C.	1 C
C51	0657223	22000 pF	50V	C.C.	2 B

Abbreviations

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



Parts No.	Stock No.	Description	Position
C52	0669400	15pF 50V C.C.	2 B
C53	0620361	360pF 50V P.C.	2 B
C54	0601107	0.01μF 50V M.C.	2 B
C55	0512100	10μF 16V E.C.	2 B
C56	0513479	4.7μF 25V E.C.	1 D
C57	0515109	1μF 50V E.C.	1 D
C58	0515109	1μF 50V E.C.	1, 2 D
C59	0600826	0.0082μF 50V M.C.	2 D
C60	0600826	0.0082μF 50V M.C.	2 D
C61	0512101	100μF 16V E.C.	1, 2 D
C62	0601108	0.1μF 50V M.C.	2 D
C63	0601108	0.1μF 50V M.C.	2 D
C70	0519101	1μF 50V E.C.	2 D
C71	0519101	1μF 50V E.C.	2 D
C72	0650102	1000pF 50V C.C.	1 A
C73	0510470	47μF 6.3V E.C.	2 B
C74	0519105	2.2μF 50V E.C.	2 C
C75	0513479	4.7μF 25V E.C.	1 D
C76	0600157	0.015μF 50V M.C.	2 D
C77	0600157	0.015μF 50V M.C.	2 D
C78	0513479	4.7μF 25V E.C.	1 D
C79	0629001	6800pF 50V P.C.	1 D
C81	0510221	22μ0F 6.3V E.C.	2 C
R02	0113394	390kΩ	1 A
R03	0113103	10kΩ ¼W S.R.	1 A
R04	0113104	100kΩ	1 A
R05	0113101	100Ω (3SK41 (L)) ¼W S.R.	1 A
	0113151	150Ω (3SK41 (K))	1 A
R06	0113105	1MΩ ¼W S.R.	1 A
R07	0113220	22Ω	1 A



Parts No.	Stock No.	Description	Position
R08	0113562	5.6kΩ	1 A
R09	0113123	12kΩ ¼W S.R.	1 A
R10	0113332	3.3kΩ	1 A
R11	0116822	8.2kΩ	1 A
R12	0116222	2.2kΩ ¼W C.R. (E.L.R.)	1 B
R13	0116220	22Ω	1 A
R14	0113222	2.2kΩ	1 A, B
R15	0113102	1kΩ ¼W S.R.	1 B
R16	0113471	470Ω	1 B
R17	0113221	220Ω	1 B
R18	0113392	3.9kΩ	1 B
R19	0113152	1.5kΩ	1 B
R20	0113101	100Ω	1 B
R21	0113182	1.8kΩ	1 B
R22	0113471	470Ω ¼W S.R.	1 B
R23	0113681	680Ω	1 B
R24	0113101	100Ω	1 B
R25	0113271	270Ω	1 B
R26	0113152	1.5kΩ	1 B
R27	0113220	22Ω	1 B

to page 13

F-1506 Parts List

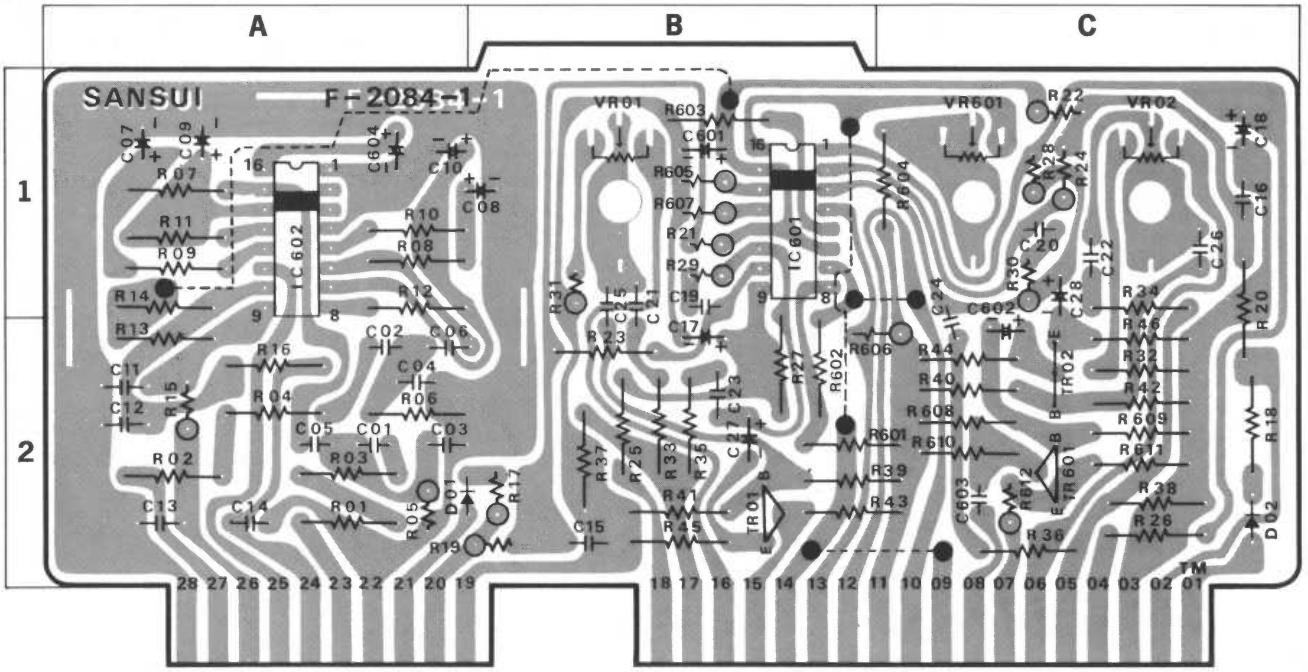
Parts No.	Stock No.	Description	Position
R28	0113271	270Ω	1 B
R29	0113391	390Ω	1 B
R30	0113681	680Ω	1 B
R31	0113332	3.3kΩ	1 C
R32	0113222	2.2kΩ	1 B, C
R33	0113682	6.8kΩ	1 C
R34	0113331	330Ω	1 C
R35	0113102	1kΩ	1 C
R36	0113102	1kΩ	1 C
R37	0113101	100Ω	1 C
R38	0113471	470Ω	1 C
R39	0113103	10kΩ	1 C
R40	0113103	10kΩ	1 C
R42	0113103	10kΩ	1 C
R43	0113183	18kΩ ¼W S.R.	1 C
R44	0113102	1kΩ	1 C
R45	0113821	820Ω	1, 2 C
R46	0113122	1.2kΩ	2 B, C
R47	0113682	6.8kΩ	2 C
R48	0113104	100kΩ	2 C
R49	0113104	100kΩ	2 C
R51	0113220	22Ω	2 C
R53	0113471	470Ω	1 C
R54	0113101	100Ω	2 B
R55	0113103	10kΩ	2 B
R56	0113152	1.5kΩ	2 B
R57	0113103	10kΩ	2 B, C
R58	0113103	10kΩ	2 C
R59	0113182	1.8kΩ	2 B
R60	0113473	47kΩ W¼ S.R.	2 C
R61	0113153	15kΩ W¼ S.R.	1, 2 C
R62	0113392	3.9kΩ	2 B
R63	0113224	220kΩ	2 B
R64	0113151	150Ω	2 B
R65	0113101	100Ω	2 B, C
R66	0113334	330kΩ	2 C
R67	0113562	5.6kΩ	1 D
R68	0113151	150Ω	1 D
R69	0113101	100Ω	1 D
R70	0113332	3.3kΩ	1 D
R71	0113332	3.3kΩ	2 D
R72	0113472	4.7kΩ	1 D
R73	0113151	150Ω	1 D
R74	0113104	100kΩ	2 C
R75	0113223	22kΩ	1 D
R76	0113223	22kΩ	2 D
R79	0113684	680kΩ	2 D
R80	0113332	3.3kΩ	2 D
R81	0113331	330Ω	2 D
R82	0113684	680kΩ	2 D
R83	0113332	3.3kΩ	2 D
R84	0113331	330Ω	2 D
R85	0113472	4.7kΩ	1, 2 C
R86	0113563	56kΩ	2 C
R87	0113563	56kΩ	1 C
R99	0113101	100Ω	1 A
R100	0113470	47Ω	1 A
R101	0113220	22Ω	1 B, C
R102	0113333	33kΩ	1 C, D
R103	0113332	3.3kΩ	2 D
R104	0113332	3.3kΩ	2 D
R106	0113123	120kΩ	2 C
R701	0113122	1.2kΩ	
S01	1110270	DE-EMPHASIS Switch	2 D

5-2. F-2084-1 Vario-Matrix Circuit Board (Stock No. 7650240 Complete Circuit Board F-2084-1)

Parts List

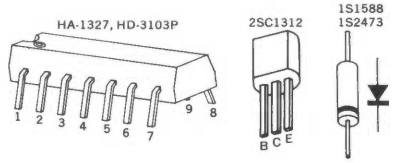
Parts No.	Stock. No.	Description	Position
TR01	0306090, 1	2SC1312 (F, G) Transistor	2 B
TR02	0306090, 1	2SC1312 (F, G) Transistor	2 C
TR601	0306090, 1	2SC1312 (F, G) Transistor	2 C
IC601	0360100	HD-3103P IC	1 B
IC602	0360090, 1	HA1327 IC	1 A
D01	0311180	1S1588 Diode	2 A, B
D02	0311160	1S2473D Diode	2 C
VR01	1031140	100kΩ (B)	1 B
VR02	1031140	100kΩ (B)	1 C
VR601	1031100	10kΩ (B)	1 C
C01	0600106	0.001μF 50V M.C.	2 A
C02	0600106	0.001μF 50V M.C.	2 A
C03	0620471	470pF 50V M.C.	2 A
C04	0620681	680pF 50V M.C.	2 A
C05	0600106	0.001μF 50V M.C.	2 A
C06	0600106	0.001μF 50V M.C.	2 A
C07	0513479	4.7μF 25V E.C.	1 A
C08	0513479	4.7μF 25V E.C.	1 B
C09	0513479	4.7μF 25V E.C.	1 A
C10	0513479	4.7μF 25V E.C.	1 A, B
C11	0600687	0.068μF 50V M.C.	2 A
C12	0600687	0.068μF 50V M.C.	2 A
C13	0600567	0.056μF 50V M.C.	2 A
C14	0600567	0.056μF 50V M.C.	2 A
C15	0600187	0.018μF 50V M.C.	2 B
C16	0600187	0.018μF 50V M.C.	1 C
C17	0513100	10μF 25V E.C.	2 B
C18	0513100	10μF 25V E.C.	1 C
C19	0600226	0.0022μF 50V M.C.	1 B
C20	0600226	0.0022μF 50V M.C.	1 C
C21	0620681	680pF 50V M.C.	1, 2 B
C22	0620681	680pF 50V M.C.	1 C
C23	0600187	0.018μF 50V M.C.	2 B
C24	0600187	0.018μF 50V M.C.	1, 2 C
C25	0600477	0.047μF 50V M.C.	1, 2 B
C26	0600227	0.022μF 50V M.C.	1 C
C27	0515109	1μF 50V E.C.	2 B
C28	0515109	1μF 50V E.C.	1 C
C601	0515339	3.3μF 50V E.C.	2 B
G602	0519102	3.3μF 50V E.C.(BRN)	2 C
C603	0600476	0.0047μF 50V M.C.	2 C
C604	0513330	33μF 25V E.C.	1 A
R01	0107152	1.5kΩ ¼W C.R.	2 A
R02	0107152	1.5kΩ ¼W C.R.	2 A
R03	0107562	5.6kΩ ¼W C.R.	2 A
R04	0107562	5.6kΩ ¼W C.R.	2 A
R05	0106473	47kΩ ¼W C.R.(E.L.R)	2 A
R06	0107473	47kΩ ¼W C.R.	2 A
R07	0107274	270kΩ ¼W C.R.	1 A
R08	0107274	270kΩ ¼W C.R.	1 A
R09	0107124	120kΩ ¼W C.R.	1 A
R10	0107124	120kΩ ¼W C.R.	1 A
R11	0107394	390kΩ ¼W C.R.	1 A
R12	0107394	390kΩ ¼W C.R.	1 A
R13	0107124	120kΩ ¼W C.R.	2 A
R14	0107124	120kΩ ¼W C.R.	1 A

Conductor Side



Parts List

Parts No.	Stock No.	Description			Position
R15	0106563	56kΩ	¼W	C.R.(E.L.R)	2 A
R16	0107563	56kΩ	¼W	C.R.	2 A
R17	0106334	330kΩ	¼W	C.R. (E.L.R)	2 B
R18	0107824	820kΩ	¼W	C R.	2 C
R19	0106394	390kΩ	¼W	C.R. (E.L.R)	2 A , B
R20	0107394	390kΩ	¼W	C.R.	1 , 2 C
R21	0106684	680kΩ	¼W	C.R. (E.L.R)	1 B
R22	0106684	680kΩ			1 C
R23	0107105	1MΩ	¼W	C.R.	2 B
R24	0106105	1MΩ	¼W	C.R. (E.L.R)	1 C
R25	0107103	10kΩ	¼W	C.R.	2 B
R26	0107103	10kΩ			2 C
R27	0107683	68kΩ			2 B
R28	0106683	68kΩ	¼W	C.R. (E.L.R)	1 C
R29	0106104	100kΩ	¼W	C.R.	1 B
R30	0106104	100kΩ			1 C
R31	0106473	47kΩ	¼W	C.R. (E.L.R)	1 B
R32	0107473	47kΩ	¼W	C.R.	2 C
R33	0107153	15kΩ			2 B
R34	0107153	15kΩ			1 C
R35	0107331	330Ω	¼W	C.R.	2 B
R36	0107331	330Ω			2 C
R37	0107224	220kΩ			2 B
R38	0107224	220kΩ			2 C
R39	0107184	180kΩ			2 B , C
R40	0107224	220kΩ			2 C
R41	0107473	47kΩ			2 B
R42	0107473	47kΩ			2 C
R43	0107103	10kΩ			2 B , C
R44	0107103	10kΩ			2 C
R45	0107472	4.7kΩ			2 B
R46	0107472	4.7kΩ			2 C
R601	0107224	220kΩ			2 B , C
R602	0107473	47kΩ			2 B



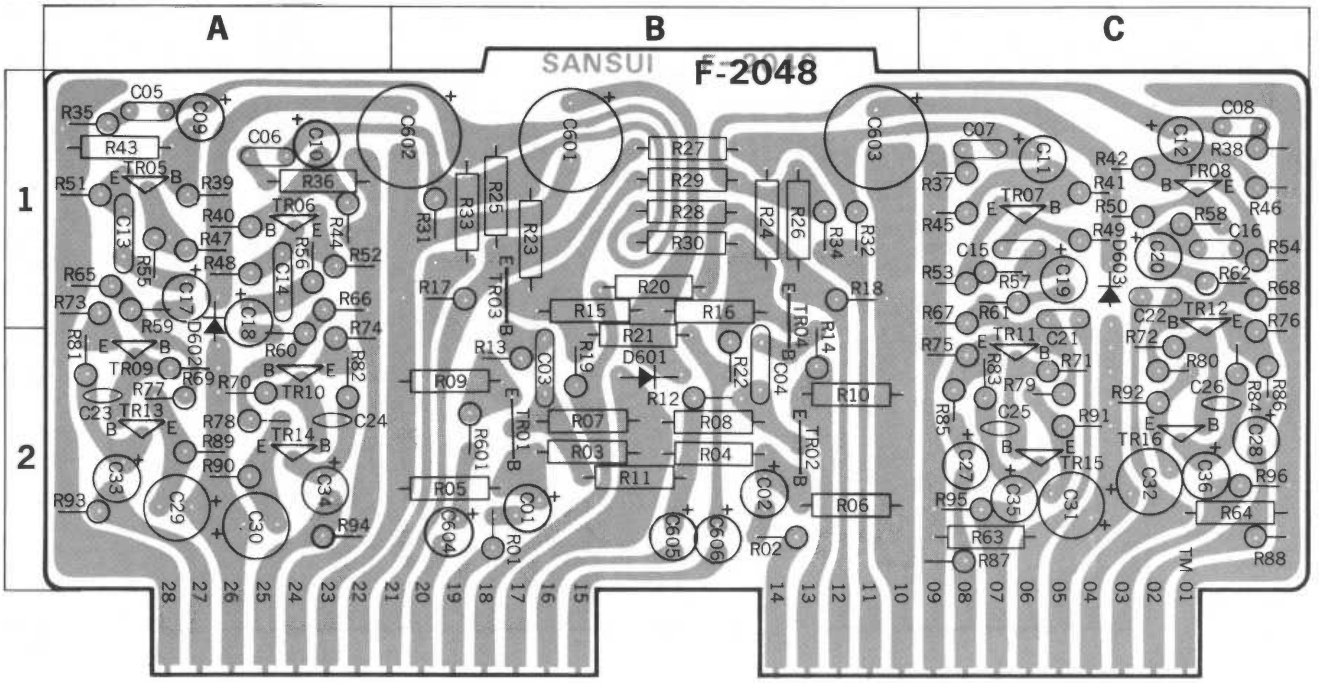
Parts No.	Stock No.	Description			Position
R603	0107103	10kΩ	¼W	C.R.	1 B
R604	0107102	1kΩ			1 C
R605	0106103	10kΩ	¼W	C.R. (E.L.R)	1 B
R606	0106332	3.3kΩ			2 B , C
R607	0106103	10kΩ			1 B
R608	0107224	220kΩ	¼W	C.R.	2 C
R609	0107104	100kΩ	¼W	C.R.	2 C
R610	0107152	1.5kΩ			2 C
R611	0107152	1.5kΩ			2 C
R612	0106472	4.7kΩ	¼W	C.R. (E.L.R)	2 C

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

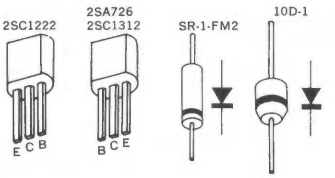
5-3. F-2048 Vario-Matrix Circuit Board (Stock No. 7650120 Complete Circuit Board F-2048)

Conductor Side



Parts List

Parts No.	Stock No.	Description		Position
TR01,02	0306011, 2 or 0306091, 2	2SC1222 (E, F) or 2SC1312Ⓡ (G, H)	Transistor	2 B
TR03,04	0306011, 2 or 0306091, 2	2SC1222 (E, F) or 2SC1312Ⓡ (G, H)	Transistor	1, 2 B
TR05	0300470 or 0300410, 1	2SA726Ⓦ (F) or 2SA726Ⓡ (F, G)	Transistor	1 A
TR06,07	0306011, 2 or 0306091, 2	2SC1222 (E, F) or 2SC1312Ⓡ (G, H)	Transistor	1 A . 1 C
TR08	0300470 or 0300410, 1	2SA726Ⓦ (F) or 2SA726Ⓡ (F, G)	Transistor	1 C
TR09,10	0306011, 2 or 0306091, 2	2SC1222 (E, F) or 2SC1312Ⓡ (G, H)	Transistor	2 A
TR11,12	0306011, 2 or 0306091, 2	2SC1222 (E, F) or 2SC1312Ⓡ (G, H)	Transistor	2 C
TR13,14	0300470 or 0300410, 1	2SA726Ⓦ (F) or 2SA726Ⓡ (F, G)	Transistor	2 A
TR15,16	0300470 or 0300410, 1	2SA726Ⓦ (F) or 2SA726Ⓡ (F, G)	Transistor	2 C
D601	0310870 or 0310340	SR-1-FM2 or 10D-1	Diode	2 B
D602	0300470 or 0300340	SR-1-FM2 or 10D-1	Diode	1, 2 A
D603	0310870 or 0310340	SR-1-FM2 or 10D-1	Diode	1 C



Parts No.	Stock No.	Description				Position
C01	0519102	3.3μF		50V	E.C.	2 B
C02	0519102	3.3μF		50V	E.C.	2 B
C03	0600107	0.01μF				2 B
C04	0600107	0.01μF				2 B
C05	0600157	0.015μF		50V	M.C.	1 A
C06	0600157	0.015μF		50V	M.C.	1 A
C07	0600107	0.01μF				1 C
C08	0600107	0.01μF				1 C
C09	0519105	2.2μF		50V	E.C.	1 A
C10	0519105	2.2μF		50V	E.C.	1 A
C11	0573108	0.1μF		25V	T.C.	1 C
C12	0573108	0.1μF		25V	T.C.	1 C
C13	0600607	0.06μF				1 A
C14	0600607	0.06μF		50V	M.C.	1 A
C15	0600126	0.0012μF				1 C
C16	0600686	0.0068μF				1 C
C17	0573228	0.22μF				1 A
C18	0573228	0.22μF		25V	T.C.	1, 2 A
C19	0573228	0.22μF		25V	T.C.	1 C
C20	0573228	0.22μF				1 C
C21	0600106	0.001μF	± 5 %	50V	M.C.	1 C
C22	0600156	0.0015μF		50V	M.C.	1 C
C23	0660470	47 pF				2 A
C24	0660470	47 pF		50V	C.C.	2 A
C25	0660470	47 pF		50V	C.C.	2 C
C26	0660470	47 pF				2 C
C27	0513100	10μF		25V	E.C.	2 C

Parts No.	Stock No.	Description	Position
C28	0513100	10μF 25V E.C.	2C
C29	0510101	100μF	2A
C30	0510101	100μF 6.3V E.C.	2A
C31	0510101	100μF	2C
C32	0510101	100μF	2C
C33	0573478	0.47μF	2A
C34	0573478	0.47μF 25V T.C.	2A
C35	0573478	0.47μF	2C
C36	0573478	0.47μF	2C
C37	0666151	150pF	
C38	0666151	150pF 50V C.C.	
C39	0666151	150pF	
C40	0666151	150pF	
C601	0513221	220μF	1B
C602	0513221	220μF 25V E.C.	1A, B
C603	0513221	220μF	1B, C
C604	0513100	10μF	2B
C605	0573108	0.1μF 25V T.C.	2B
C606	0573108	0.1μF	2B
R01	0106222	2.2kΩ ± 5% ¼W C.R. (E.L.R.)	2B
R02	0106222	2.2kΩ	2B
R03	0107224	220kΩ	2B
R04	0107224	220kΩ	2B
R05	0107104	100kΩ	2B
R06	0107104	100kΩ	2B
R07	0107222	2.2kΩ ± 5% ¼W C.R.	2B
R08	0107222	2.2kΩ	2B
R09	0107222	2.2kΩ	2B
R10	0107222	2.2kΩ	2B
R11	0107224	220kΩ	2B
R12	0106224	220kΩ	2B
R13	0106223	22kΩ ± 5% ¼W C.R. (E.L.R.)	2B
R14	0106223	22kΩ	2B
R15	0107152	1.5kΩ ± 5% ¼W C.R.	1B
R16	0107152	1.5kΩ	1B
R17	0106152	1.5kΩ	1B
R18	0106152	1.5kΩ ± 5% ¼W C.R. (E.L.R.)	1B
R19	0106224	220kΩ	2B
R20	0107224	220kΩ ± 5% ¼W C.R.	1B
R21	0107224	220kΩ	2B
R22	0106224	220kΩ ± 5% ¼W C.R. (E.L.R.)	2B
R23	0107104	100kΩ	1B
R24	0107104	100kΩ	1B
R25	0107104	100kΩ	1B
R26	0107104	100kΩ	1B
R27	0107104	100kΩ ± 5% ¼W C.R.	1B
R28	0107104	100kΩ	1B
R29	0107104	100kΩ	1B
R30	0107104	100kΩ	1B
R31	0106563	56kΩ ± 5% ¼W C.R. (E.L.R.)	1B
R32	0106563	56kΩ	1B
R33	0107563	56kΩ ± 5% ¼W C.R.	1B
R34	0106563	56kΩ ± 5% ¼W C.R. (E.L.R.)	1B
R35	0106563	56kΩ	1A
R36	0107563	56kΩ ± 5% ¼W C.R.	1A
R37	0106563	56kΩ	1C
R38	0106563	56kΩ	1C
R39	0106104	100kΩ	1A
R40	0106224	220kΩ ± 5% ¼W C.R. (E.L.R.)	1A
R41	0106224	220kΩ	1C
R42	0106104	100kΩ	1C

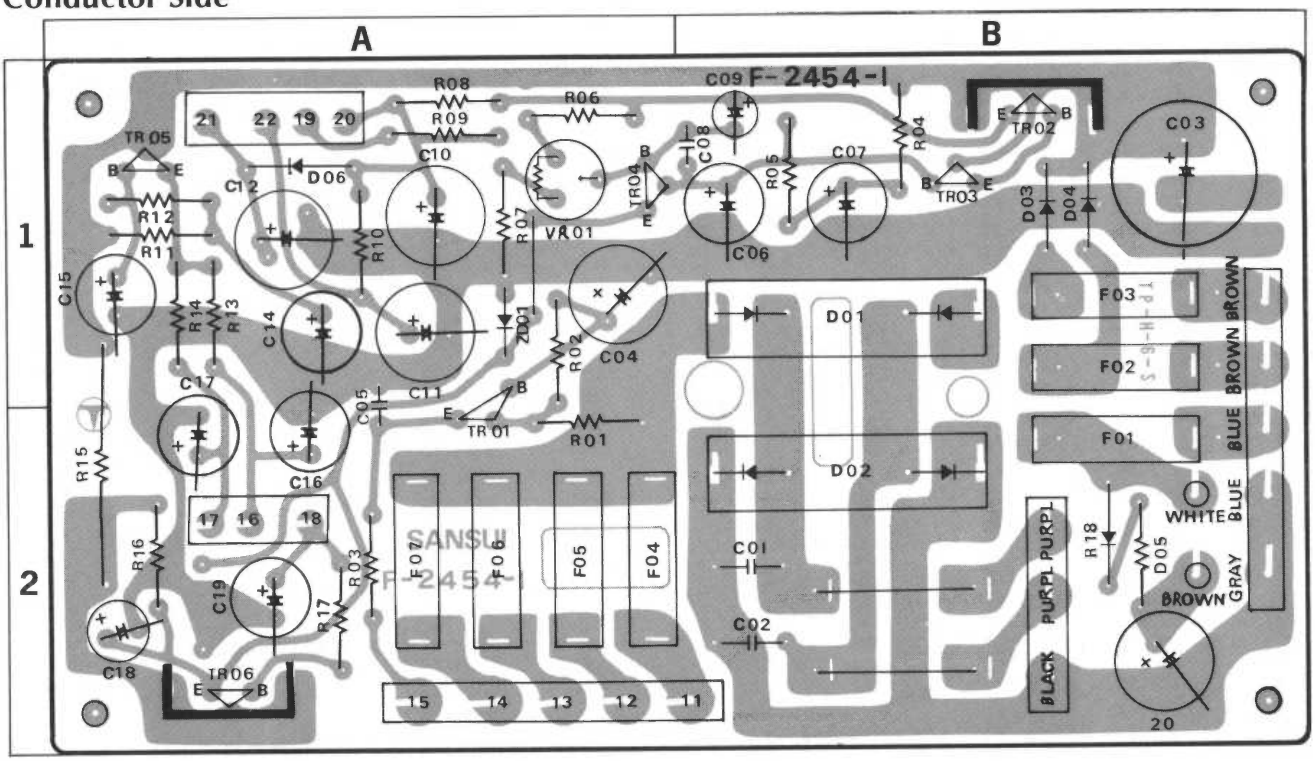
Parts No.	Stock No.	Description	Position
R43	0107224	220kΩ ± 5% ¼W C.R.	1A
R44	0106104	100kΩ	1A
R45	0106104	100kΩ	1C
R46	0106224	220kΩ	1C
R47	0106682	6.8kΩ	1A
R48	0106682	6.8kΩ	1A
R49	0106682	6.8kΩ	1C
R50	0106682	6.8kΩ	1C
R51	0106682	6.8kΩ	1A
R52	0106682	6.8kΩ	1A
R53	0106682	6.8kΩ ± 5% ¼W C.R. (E.L.R.)	1C
R54	0106682	6.8kΩ	1C
R55	0106223	22kΩ	1A
R56	0106223	22kΩ	1A
R57	0106153	15kΩ	1C
R58	0106153	15kΩ	1C
R59	0106223	22kΩ	1A
R60	0106223	22kΩ	2A
R61	0106223	22kΩ	1C
R62	0106223	22kΩ	1C
R63	0107104	100kΩ ± 5% ¼W C.R.	2C
R64	0107104	100kΩ	2C
R65	0106154	150kΩ	1A
R66	0106154	150kΩ	1A
R67	0106154	150kΩ	1, 2C
R68	0106154	150kΩ	1C
R69	0106124	120kΩ	2A
R70	0106124	120kΩ	2A
R71	0106124	120kΩ	2C
R72	0106124	120kΩ	2C
R73	0106392	3.9kΩ	1A
R74	0106392	3.9kΩ	2A
R75	0106392	3.9kΩ	2C
R76	0106392	3.9kΩ	1, 2C
R77	0106824	820kΩ	2A
R78	0106824	820kΩ	2A
R79	0106824	820kΩ	2C
R80	0106824	820kΩ ± 5% ¼W C.R. (E.L.R.)	2C
R81	0106123	12kΩ	2A
R82	0106123	12kΩ	2A
R83	0106123	12kΩ	2C
R84	0106123	12kΩ	2C
R85	0106123	12kΩ	2C
R86	0106123	12kΩ	2C
R87	0106104	100kΩ	2C
R88	0106104	100kΩ	2C
R89	0106122	1.2kΩ	2A
R90	0106122	1.2kΩ	2A
R91	0106122	1.2kΩ	2C
R92	0106122	1.2kΩ	2C
R93	0106104	100kΩ	2A
R94	0106104	100kΩ	2A
R95	0106104	100kΩ	2C
R96	0106104	100kΩ	2C

Abbreviations

C.R. : Carbon Resistor
S.R. : Solid Resistor
Ce.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

5-4. F-2454 Power Supply Circuit Board (Stock No. 7500990 Complete Circuit Board F-2454)

Conductor Side



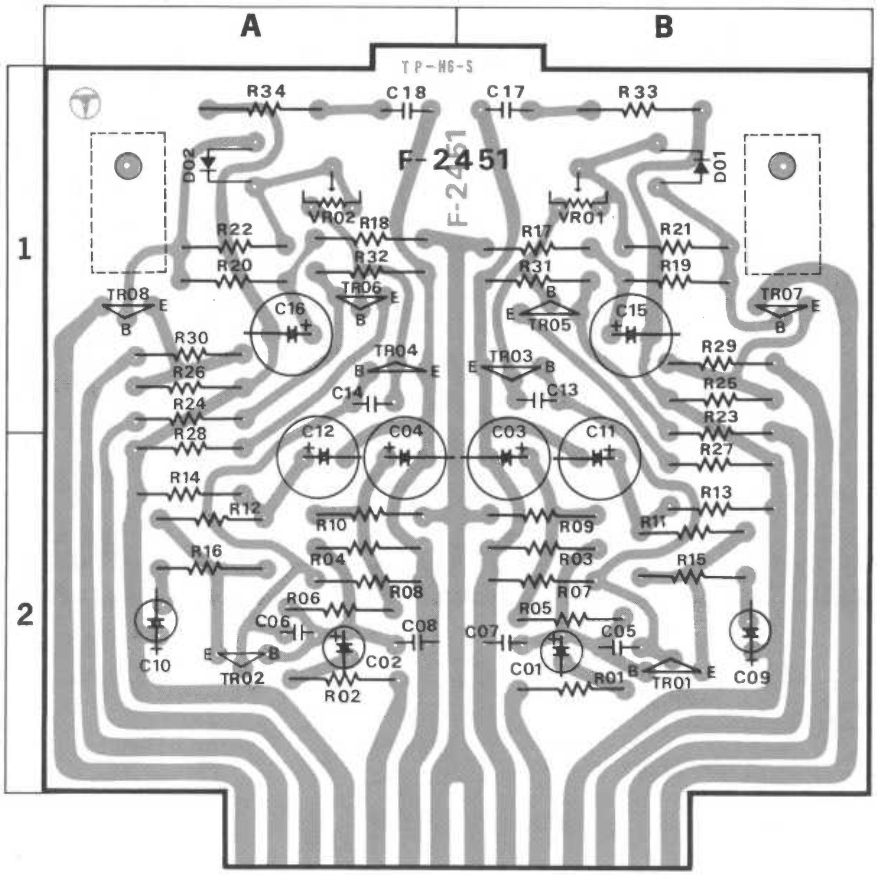
Parts List

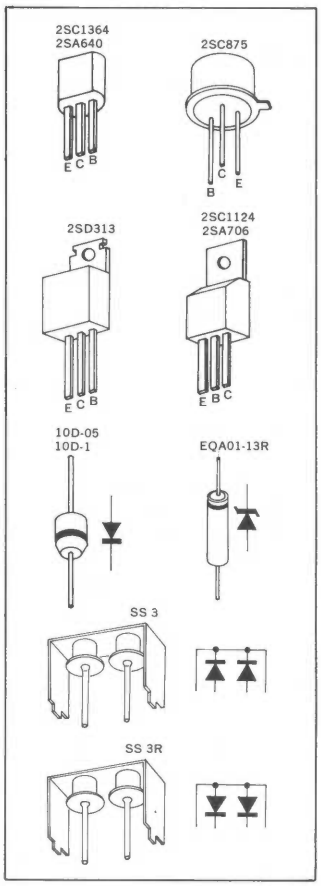
Parts No.	Stock No.	Description	Position
TR01	0305980,1,2	2SC875 (D, E, F) } Transistor	1, 2 A
TR02	0308391,2,3	2SD313 (D, E, F) } Transistor	1 B
TR03	0306132~3	2SC1364 ⑦, ⑧ } Transistor	1 B
TR04	0306132~3	2SC1364 ⑦, ⑧ } Transistor	1 A
TR05	0305980,1,2	2SC875 (D, E, F) } Transistor	1 A
TR06	0308391,2,3	2SD313 (D, E, F) } Transistor	2 A
D01	0311290	SS-3 } Diode	1 B
D02	0311300	SS-3R } Diode	2 B
D03	0310340	10D-1 } Diode	1 B
D04	0310340	10D-1 } Diode	1 B
D05	0310880	10D-05 } Diode	2 B
ZD01	0315970	EQA01-13R	1 A
C01	0659011	10000pF } 500V C.C.	2 B
C02	0659011	10000pF } 500V C.C.	2 B
C03	0514102	1000μF 35V E.C.	1 B
C04	0519903	100μF 80V E.C.	1 A
C05	0657223	0.022μF	1, 2 A
C06	0515470	47μF	1 B
C07	0515470	47μF } 50V E.C.	1 B
C08	0660101	100pF	1 B
C09	0515100	10μF } 50V E.C.	1 B
C10	0513221	220μF } 25V E.C.	1 A
C11	0513221	220μF } 25V E.C.	1 A
C14	0515470	47μF	1 A
C15	0515470	47μF } 50V E.C.	1 A
C16	0515470	47μF } 50V E.C.	1, 2 A
C17	0515470	47μF } 50V E.C.	1, 2 A

Parts No.	Stock No.	Description	Position
C18	0512470	47μF } 16V E.C.	2 A
C19	0512101	100μF } 16V E.C.	2 A
C20	0511471	470μF 10V E.C.	2 B
C21	0513471	470μF 25V E.C.	2 B
R01	0102101	100Ω	2 A
R02	0102103	10kΩ	1 A
R03	0102330	33Ω	2 A
R04	0102152	1.5kΩ	1 B
R05	0102152	1.5kΩ	1 B
R06	0102123	12kΩ	1 A
R07	0102123	12kΩ } ¼W C.R.	1 A
R08	0107100	10Ω	1 A
R09	0102479	4.7Ω	1 A
R10	0102270	27Ω	1 A
R11	0102122	1.2kΩ	1 A
R12	0102122	1.2kΩ	1 A
R13	0102181	180Ω	1 A
R15	0182221	220Ω 2W Ce.R.	1, 2 A
R16	0102272	2.7kΩ ¼W C.R.	2 A
R17	0107100	10Ω ¼W C.R.	2 A
R18	0103479	4.7Ω ½W C.R.	2 B
VR01	1035100	33kΩ Semi-Variable Resistor	1 A
F01	0430850	20mm 2A 250V } Power Fuse	2 B
F02	0430850	20mm 2A 250V } Power Fuse	1 B
F03	0430850	20mm 2A 250V } Power Fuse	1 B
F04~07	0433630	20mm 4A 250V Quik Acting Fuse	2 A

5-5. F-2451 Main Circuit Board (Stock No. 7570980 Complete Circuit Board F-2451)

Conductor Side





Parts List

Parts No.	Stock No.	Description	Position
TR01, 02	0300651, 2	2SA640 (M, L)	2B . 1A
TR03, 04	0306132, 3	2SC1364 ⑦, ⑧	1B . 1A
TR05, 06	0300381, 2	2SA706 ②, ③	1B . 1A
TR07, 08	0305901, 2	2SC1124 ②, ③	1B . 1A
D01, 02	0340110	SV-03F Diode	1B . 1A
C01, 02	0519101	1μF 50V E.C.	2B . 2A
C03, 04	0515470	47μF 50V E.C.	1,2B. 1,2A
C05, 06	0660470	47pF 50V C.C.	2B . 2A
C07, 08	0660470	47pF 50V C.C.	2B . 2A
C09, 10	0512100	10μF 16V E.C.	2B . 2A
C11, 12	0513101	100μF 25V E.C.	1,2B. 1,2A
C13, 14	0660220	22pF 50V C.C.	1B . 1A
C15, 16	0519101	1μF 50V E.C.	1B . 1A
C17, 18	0600827	0.082μF 50V Mi.C.	1B . 1A
R01, 02	0102222	2.2kΩ ¼W C.R.	2B . 2A
R03, 04	0102274	270kΩ ¼W C.R.	2B . 2A
R05, 06	0102274	270kΩ ¼W C.R.	2B . 2A
R07, 08	0102222	2.2kΩ ¼W C.R.	2B . 2A
R09, 10	0102683	68kΩ ¼W C.R.	2B . 2A
R11, 12	0102151	150Ω ¼W C.R.	2B . 2A
R13, 14	0102123	12kΩ ¼W C.R.	2B . 2A

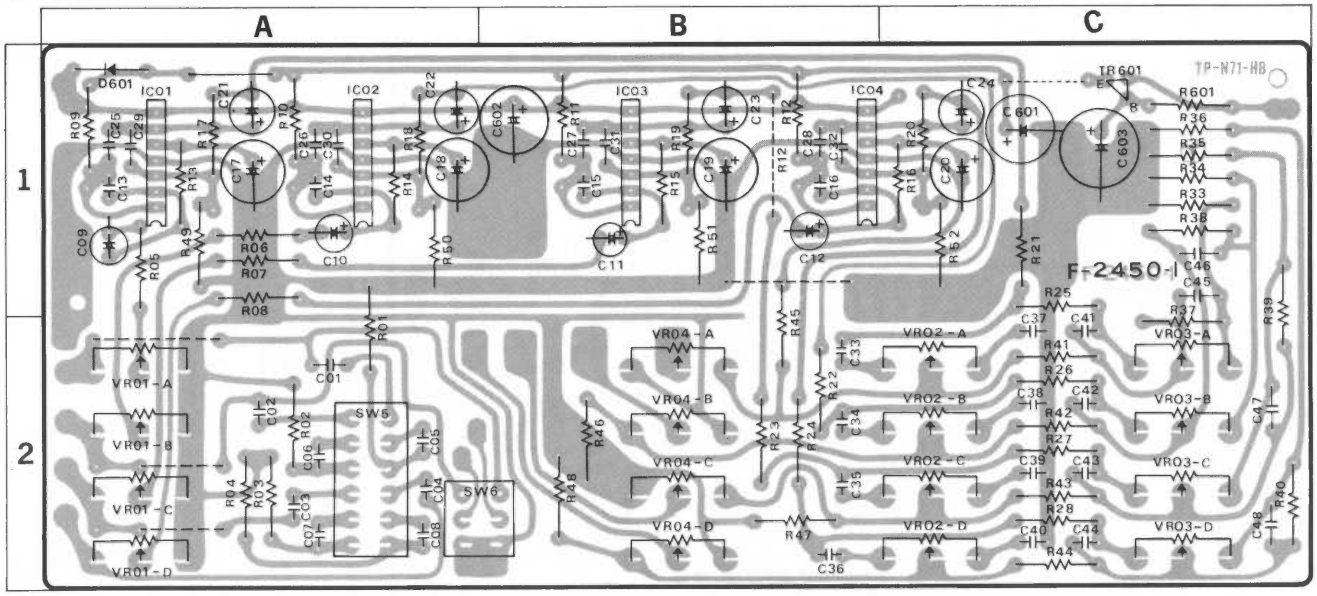
Parts No.	Stock No.	Description	Position
R15, 16	0102682	6.8kΩ ¼W C.R.	2B . 2A
R17, 18	0102102	1kΩ ¼W C.R.	1B . 1A
R19, 20	0102332	3.3kΩ ¼W C.R.	1B . 1A
R21, 22	0102561	560Ω ¼W C.R.	1B . 1A
R23, 24	0102270	27Ω ¼W C.R.	1, 2B. 1A
R25, 26	0102221	220Ω ¼W C.R.	1B . 1A
R27, 28	0102479	4.7kΩ ¼W C.R.	2B . 2A
R29, 30	0102479	4.7Ω ¼W C.R.	1B . 1A
R31, 32	0102221	220Ω ¼W C.R.	1B . 1A
R33, 34	0171100	10Ω 1W M.R.	1B . 1A
VR01, 02	1035280	330Ω Semi-Variable Resistor	1B . 1A

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

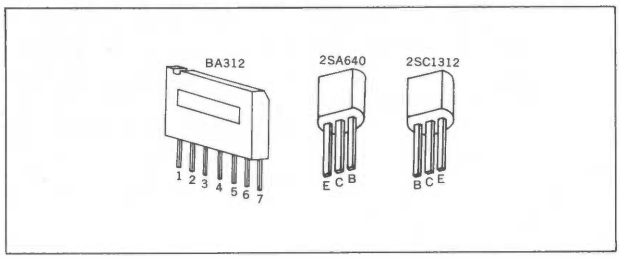
5-6. F-2450 Tone Control Circuit Board (Stock No. 7560980 Complete Circuit Board F-2450)

Conductor Side



Parts List

Parts No.	Stock No.	Description	Position
IC01~04	0360190	BA-312 IC	1A.1B
	0360200	BA-312 (white) IC	
C01~04	0620181	180pF 50V P.C	2A
C05~08	0600227	0.022μF 50V M.C.	2A
C09~12	0519101	1μF 50V E.C.	1A.1B
C13~16	0660330	33pF 50V E.C.	1A.1B
C17~20	0510101	100μF 6.3V E.C.	1A.1B.1C
C21~24	0519001	10μF 25V E.C.	1A.1B.1C
C33~36	0600227	0.0012μF 50V M.C.	2B
C37~40	0600107	0.01μF 50V M.C.	2C
C41~44	0600227	0.022μF 50V M.C.	2C
C45~48	0600158	0.15μF 50V M.C.	1C.2C
C601	0514101	100μF 35V E.C.	1C
R01~04	0107273	2.7kΩ ¼W C.R.	1,2A.2A
R05~08	0107222	2.2kΩ	1A
R09~12	0107824	820kΩ	1A.1B
R13~16	0107104	100kΩ	1A.1B.1C
R17~20	0107273	27kΩ	1A.1B.1C
R21~24	0107822	8.2kΩ	1C.2B
R25~28	0107103	10kΩ	1C.2C
R29~32	0107334	330kΩ	
R33~36	0107272	2.7kΩ	1C
R37~40	0107224	220kΩ	2C.1C.1.2C
R41~44	0107103	10kΩ	1C
R45~48	0107473	47kΩ	1,2B.2B
R49~52	0107821	820Ω	
VR01 (a~d)	1060370, 1	250kΩ (B)	2A
VR02 (a~d)	1060390, 1	100kΩ (A)	2C
VR03 (a~d)	1060390, 1	100kΩ (A)	2C
VR04 (a~d)	1060380, 1	250kΩ (MN)	2B

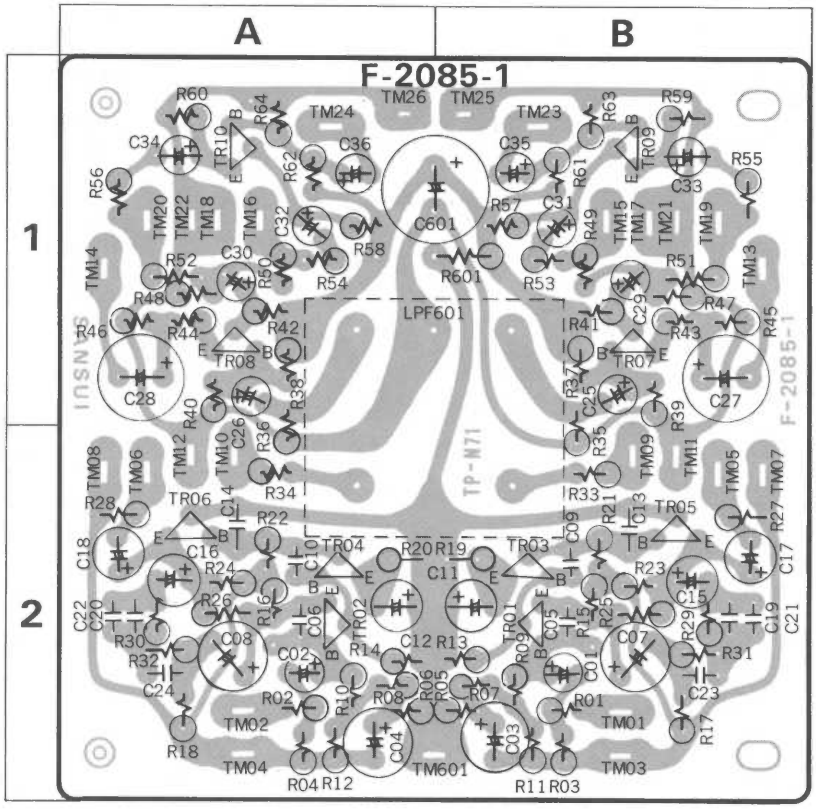


Abbreviations

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

5-7. F-2085 Equalizr & CD-4 Main Circuit Board (Stock No. 7650210 Complete Circuit Board F-2085)

Conductor Side



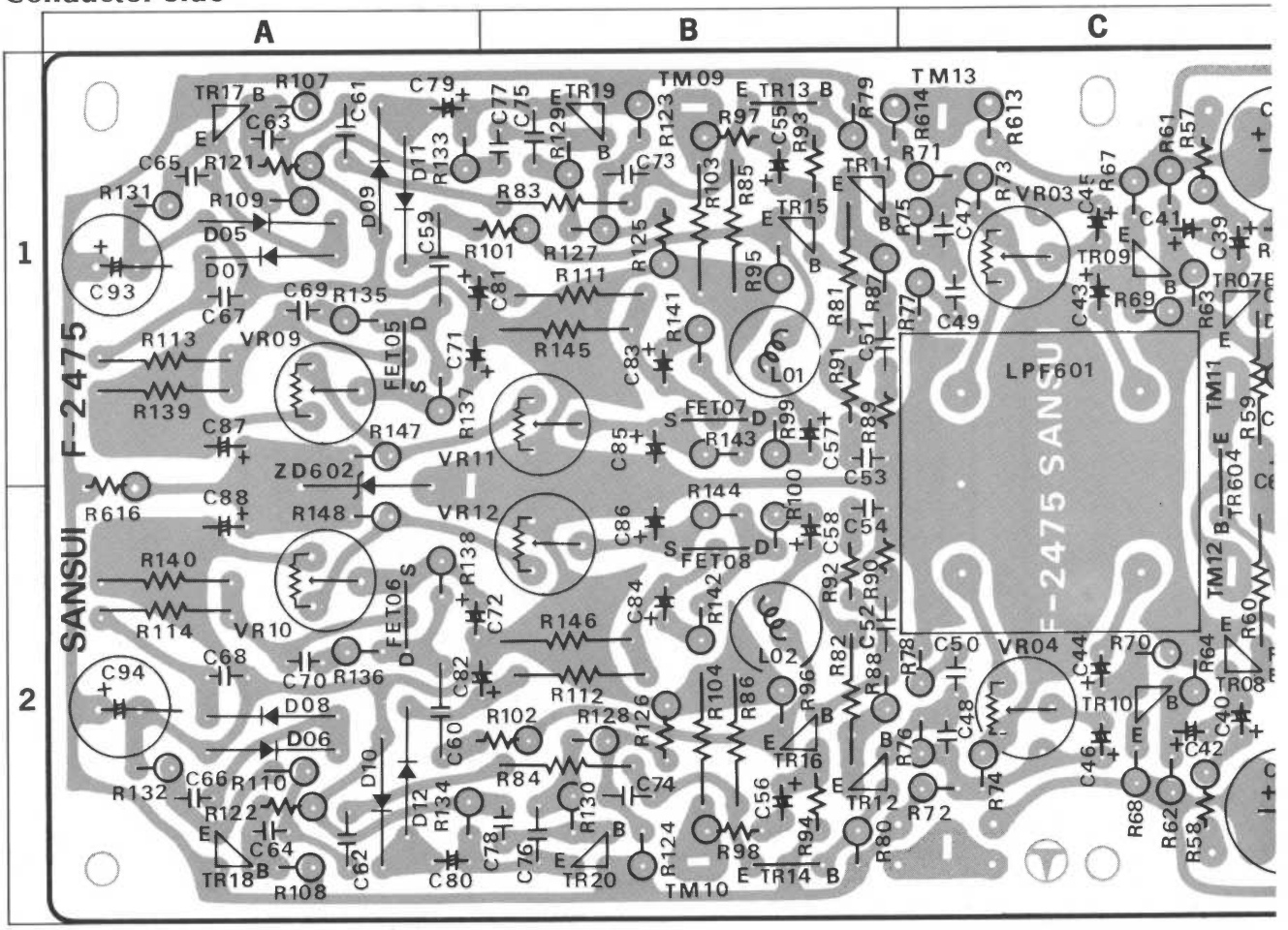
Parts List

Parts No.	Stock No.	Description	Position
TR01,02	0306090, 1	2SC1312 (F, G) }	2B.2A
TR03,04	0300301,3,5	2SA640 (M, K, L) }	2B.2A
TR05,06	0306090, 1	2SC1312 (F, G) } Transistor	2B.2A
TR07,08	0306090, 1	2SC1312 (F, G) }	1B.1A
TR09,10	0306090, 1	2SC1312 (F, G) }	1B.1A
LPF601	0910230	VSL-200-3 Low Pass Filter	
C01,02	0573229	2.2μF 25V T.C.	2B.2A
C03,04	0512330	33μF 16V E.C.	2B.2A
C05,06	0660470	47pF 50V C.C.	2B.2A
C07,08	0510470	47μF 6.3V E.C.	2B.2A
C09,10	0660220	22pF 50V C.C.	2B.2A
C11,12	0511330	33μF 10V E.C.	2B.2A
C15,16	0513100	10μF 25V E.C.	2B.2A
C17,18	0519102	3.3μF 50V E.C.	2B.2A
C19,20	0600107	0.01μF }	2B.2A
C21,22	0601106	0.001μF } 50V M.C.	2B.2A
C23,24	0600336	0.0033μF }	2B.2A
C25,26	0515109	1μF 50V E.C.	1B.1A
C27,28	0511101	100μF 10V E.C.	1B.1A
C29,30	0519105	2.2μF }	1B.1A
C31,32	0519102	3.3μF } 50V E.C.	1B.1A
C33,34	0519102	3.3μF }	1B.1A
C35,36	0515109	1μF }	1B.1A
C601	0513101	100μF 25V E.C.	1A, B
R01,02	0107332	3.3kΩ }	2B.2A
R03,04	0107823	82kΩ } ¼W C.R.	2B.2A
R05,06	0107184	180kΩ }	2B.2A

Parts No.	Stock No.	Description	Position
R07,08	0107274	270kΩ }	2B.2A
R09,10	0107473	47kΩ }	2B.2A
R11,12	0107104	100kΩ }	2B.2A
R13,14	0107273	27kΩ }	2B.2A
R15,16	0107104	100kΩ }	2B.2A
R17,18	0107681	680Ω }	2B.2A
R19,20	0107152	1.5kΩ } ¼W C.R.	2B.2A
R21,22	0107683	68kΩ }	2B.2A
R23,24	0107332	3.3kΩ }	2B.2A
R25,26	0107824	820kΩ }	2B.2A
R27,28	0107333	33kΩ }	2B.2A
R29,30	0107474	470kΩ }	2B.2A
R31,32	0107223	22kΩ }	2B.2A
R33,34	0106472	4.7kΩ }	2B.2A
R35,36	0106472	4.7kΩ }	1,2B. 1,2A
R37,38	0106184	180kΩ }	1B.1A
R39,40	0106823	82kΩ }	1B.1A
R41,42	0106822	8.2kΩ }	1B.1A
R43,44	0106271	270Ω }	1B.1A
R45,46	0106472	4.7kΩ }	1B.1A
R47,48	0106124	120kΩ }	1B.1A
R49,50	0106123	12kΩ } ¼W C.R. (E.L.R.)	1B.1A
R51,52	0106103	10kΩ }	1B.1A
R53,54	0106103	10kΩ }	1B.1A
R55,56	0106103	10kΩ }	1B.1A
R57,58	0106102	1kΩ }	1B.1A
R59,60	0106102	1kΩ }	1B.1A
R61,62	0106394	390kΩ }	1B.1A
R63,64	0106274	270kΩ }	1B.1A
R601	0106561	560Ω }	1B

5-8. F-2475 CD-4 Sub-Channel Unit Circuit Board (Stock No. 7650370 Complete Circuit Board F-2475)

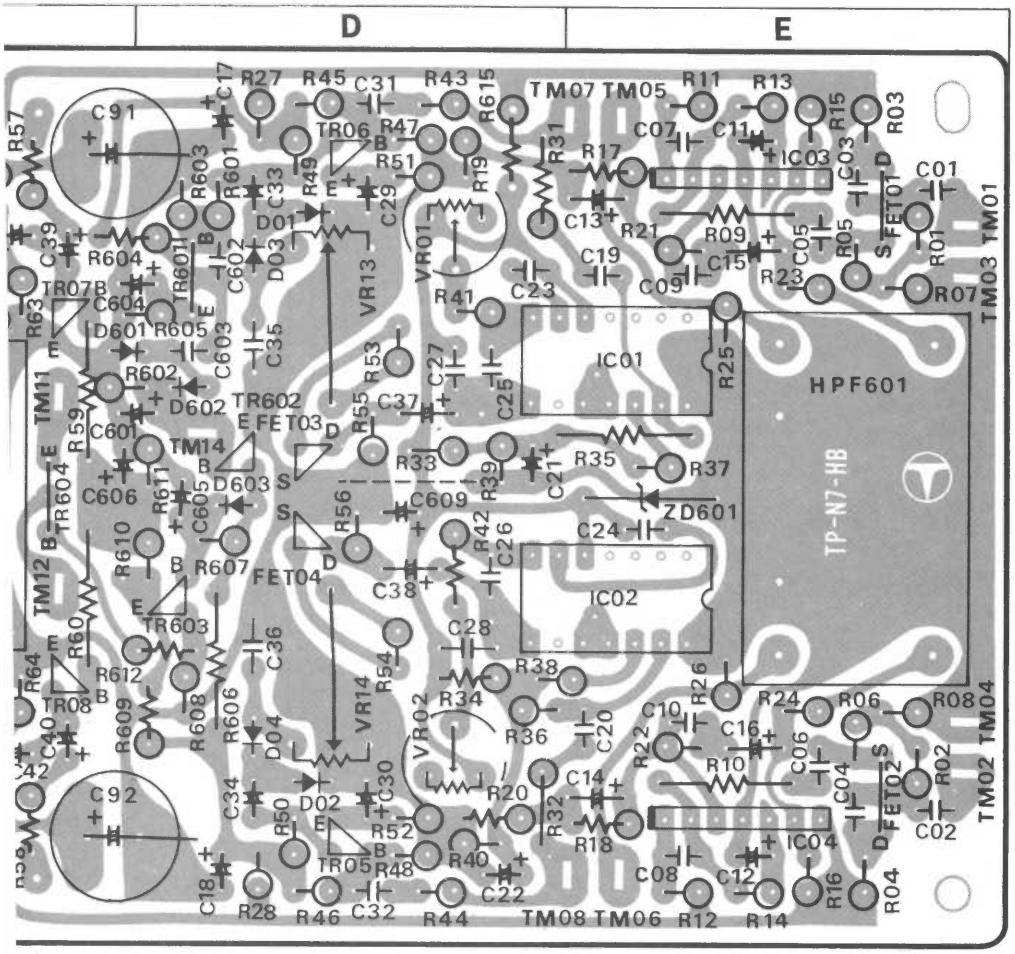
Conductor Side

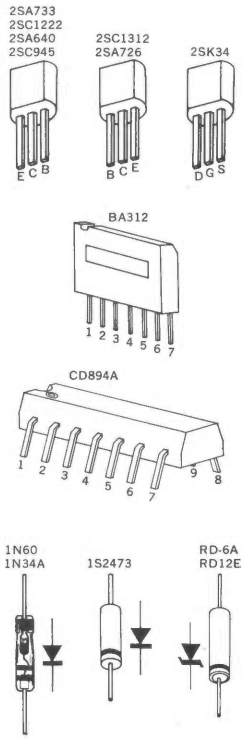


Parts List

Parts No.	Stock No.	Description		Position
TR05, 06	0305951, 2, 3	2SC945 (Q, P, K)	Transistor	2D . 1D
TR07, 08	0305951, 2, 3	2SC945 (Q, P, K)		1D . 2C
TR09, 10	0300301, 3, 5 or 0300410, 1	2SA640 (M, K, L) or 2SA726 (F, G)		1D . 2C
TR11, 12	0306090, 1 or 0306011, 2	2SC1312R (F, G) or 2SC1222 (E, F)		1B . 2B
TR13, 14	0306090, 1 or 0306011, 2	2SC1312R (F, G) or 2SC1222 (E, F)		1B . 2B
TR15, 16	0306090, 1 or 0306011, 2	2SC1312R (F, G) or 2SC1222R (E, F)		1B . 2B
TR17, 18	0305951, 2, 3	2SC945 (Q, P,K)		1A . 2A
TR19, 20	0305951, 2, 3	2SC945 (Q, P, K)		1B . 2B
TR601	0305951, 2, 3	2SC945 (Q, P, K)		1D
TR602	0305951, 2, 3	2SC945 (Q, P, K)		1D
TR603	0300510, 1	2SA733 (Q, P)		2D
TR604	0305951, 2, 3	2SC945 (Q, P, K)		1, 2C
FET01, 02	0370150, 1	2SK34 (B,C)	FET	1E . 2E
FET03, 04	0370150	2SK34 (B)		1D . 2D

Parts No.	Stock No.	Description		Position
FET05, 06	0370151	2SK34 (C)	FET	1A . 2A
FET07, 08	0370151	2SK34 (C)		1B . 2B
IC01, 02	0360110	CD894A	IC	1DE. 2DE
IC03, 04	0360200	BA312S		1E . 2E
D01, 02	0311160	IS2473D	Diode	1D . 2D
D03, 04	0311160	IS2473D		1D . 2D
D05, 06	0310400	IN34A		1A . 2A
D07, 08	0310400	IN34A		1A . 2A
D09, 10	0310400	IN34A		1A . 2A
D11, 12	0310400	IN-34A		1A . 2A
D601, 602	0310330	IN-60		1CD. 2D
D603	0310330	IN-60		2D
ZD601	0316290	RD-12E (B)		1, 2E
ZD602	0315530	RD-6A (K)		1, 2A
VR01, 02	1035100	3.3kΩ (B)		1D, 2D
VR03, 04	1035110	4.7kΩ (B)		1C . 2C
VR09, 10	1035150	22kΩ (B)		1A . 2A
VR11, 12	1035150	22kΩ (B)		1B . 2B
VR13, 14	1035520, 1	100kΩ (B)		1D . 2B
L01, 02	4900220	100mH		1D . 2D
HPF601	0910250	High Pass Filter		1, 2E
LPF601	0910240	Low Pass Filter		1, 2C





Parts No.	Stock No.	Description			Position
C01, 02	0601106	0.001μF	50V	M.C.	1E.2E
C03, 04	0660220	22pF	50V	C.C.	1E.2E
C05, 06	0600226	0.0022μF	50V	M.C.	1E.2E
C07, 08	0660100	10pF	50V	C.C.	1E.2E
C09, 10	0660151	150pF			1E.2E
C11, 12	0515339	3.3μF			1E.2E
C13, 14	0515109	1μF	50V	E.C.	1E.2E
C15, 16	0515109	1μF			1E.2E
C17, 18	0512330	33μF	16V	E.C.	1D.2D
C19, 20	0601276	0.0027μF	50V	M.C.	1E.2E
C21, 22	0515109	1μF	50V	E.C.	1D.2D
C23, 24	0600276	0.0027μF	50V	M.C.	1D.2E
C25, 26	0657102	0.001μF	50V	C.C.	1D.2D
C27, 28	0600276	0.0027μF	50V	M.C.	1D.2D
C29, 30	0511330	33μF	10V	E.C.	1D.2D
C31, 32	0620681	680pF	50V	P.C.	1D.2D
C33, 34	0515109	1μF	50V	E.C.	1D.2D
C35, 36	0601157	0.015μF	50V	M.C.	1D.2D
C37, 38	0512330	33μF	16V	E.C.	1D.2D
C39, 40	0519102	3.3μF	50V	E.C.	1C.2C
C41, 42	0519102	3.3μF	50V	E.C.	1C.2C
C43, 44	0513479	4.7μF	25V	E.C.	1C.2C
C45, 46	0515109	1μF	50V	E.C.	1C.2C

Parts No.	Stock No.	Description			Position
C47, 48	0620331	330pF	50V	P.C.	1C.2C
C49, 50	0600476	0.0047μF	50V	M.C.	1C.2C
C51, 52	0600477	0.047μF	50V	M.C.	1B.2B
C53, 54	0600276	0.0027μF	50V	M.C.	1B.2B
C55, 56	0515109	1μF	50V	E.C.	1B.2B
C57, 58	0573688	0.68μF	25V	T.C.	1B.2B
C59, 60	0600158	0.15μF	50V	M.C.	1A.2A
C61, 62	0600686	0.0068μF	50V	M.C.	1A.2A
C63, 64	0600686	0.0068μF	50V	M.C.	1A.2A
C65, 66	0600826	0.0082μF	50V	M.C.	1A.2A
C67, 68	0601227	0.022μF	50V	M.C.	1A.2A
C69, 70	0601476	0.0047μF	50V	M.C.	1A.2A
C71, 72	0512100	10μF	16V	E.C.	1AB.2A
C73, 74	0600127	0.012μF	50V	M.C.	1B.2B

to page 23

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

F-2475 Parts List

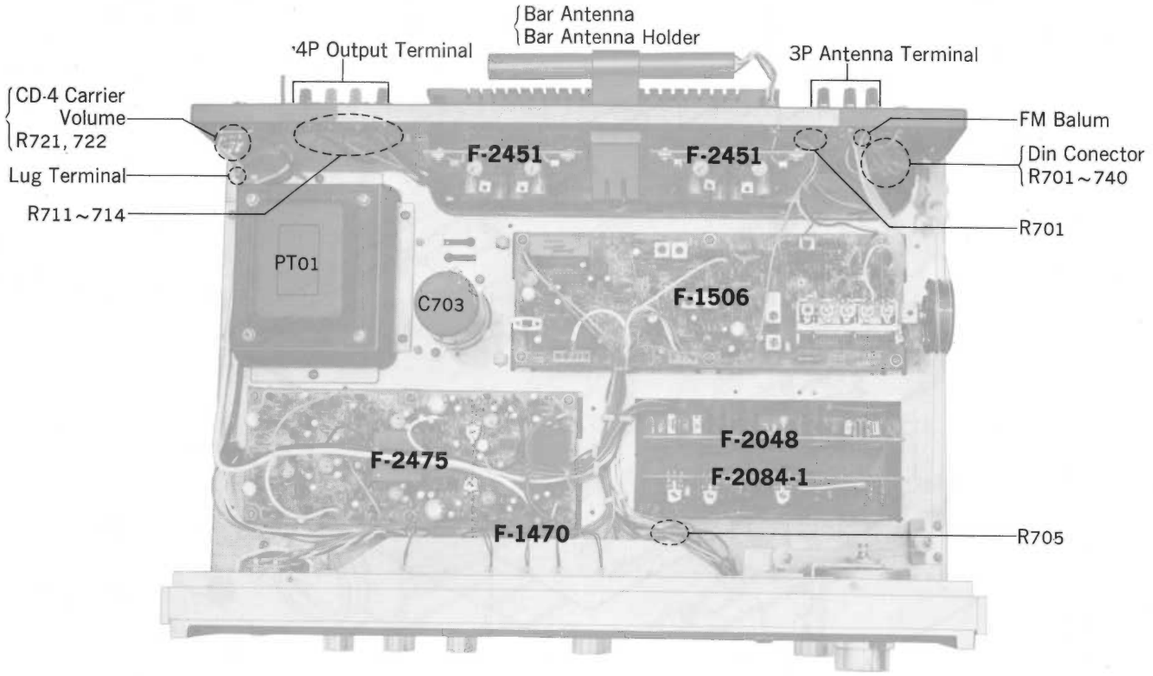
Parts No.	Stock No.	Description	Position
C75, 76	0600157	0.015μF 50V M.C.	1B.2B
C77, 78	0600157	0.015μF 50V M.C.	1B.2B
C79, 80	0573338	0.33μF 25V T.C.	1A.2A
C81, 82	0573338	0.33μF 25V T.C.	1AB. 2AB
C83, 84	0573338	0.33μF 25V T.C.	1B.2B
C85, 86	0511330	33μF 10V E.C.	1B.2B
C87, 88	0510470	47μF 6.3V E.C.	1A.2A
C89, 90			
C91, 92	0513221	220μF 25V E.C.	1CD. 2CD
C93, 94	0513101	100μF 25V E.C.	1A.2A
C601	0573108	0.1μF 25V T.C.	1C, D
C602	0660471	470pF 50V C.C.	1D
C603	0600686	0.0068μF 50V M.C.	1D
C604	0515109	1μF 50V E.C.	1C, D
C605	0512330	33μF 16V E.C.	1, 2D
C606	0515109	1μF 50V	1D
R01, 02	0106105	1MΩ	1E.2E
R03, 04	0106102	1kΩ ¼W C.R. (E.L.R)	1E.2E
R05, 06	0106221	220Ω	1E.2E
R07, 08	0106123	12kΩ	1E.2E
R09. 10	0107479	4.7Ω ¼W C.R.	1E.2E
R11, 12	0106684	680kΩ	1E.2E
R13, 14	0106562	5.6kΩ	1E.2E
R15, 16	0106103	10kΩ	1E.2E
R17, 18	0106332	3.3kΩ	1E.2E
R19, 20	0106470	47Ω	1D.2D
R21, 22	0106223	22kΩ ¼W C.R. (E.L.R)	1E.2E
R23, 24	0106332	3.3kΩ	1E.2E
R25, 26	0106562	5.6kΩ	1E.2E
R27, 28	0106152	1.5kΩ	1D.2D
R31, 32	0106270	2.7kΩ	1D.2D
R33, 34	0106103	10kΩ	1D.2D
R35	0107472	4.7kΩ ¼W C.R.	1D, E
R36	0106472	4.7kΩ	2D
R37, 38	0106472	4.7kΩ ¼W C.R. (E.L.R)	1E. 2DE
R39, 40	0106103	10kΩ	1D.2D
R41, 42	0106222	2.2kΩ	1D.2D
R43, 44	0109152	1.5kΩ	1D.2D
R45, 46	0106154	150kΩ	1D.2D
R47, 48	0106274	270kΩ ¼W C.R. (E.L.R)	1D.2D
R49, 50	0106102	1kΩ	1D.2D
R51, 52	0106222	2.2kΩ	1D.2D
R53, 54	0106683	68kΩ	1D.2D
R67, 68	0106221	220Ω	1C.2C
R69, 70	0106472	4.7kΩ	1C.2C
R71, 72	0106474	470kΩ	1C.2C
R73, 74	0106473	47kΩ ¼W C.R. (E.L.R)	1C.2C
R75, 76	0106333	33kΩ	1C.2C
R77, 78	0106472	4.7kΩ	1C.2C
R79, 80	0106273	2.7kΩ	1B.2B
R81, 82	0107272	2.7kΩ	1B.2B
R83, 84	0107479	4.7Ω ¼W C.R.	1B.2B
R85, 86	0107103	10kΩ	1B.2B
R87, 88	0106473	47kΩ	1B.2B
R89, 90	0106153	15kΩ ¼W C.R. (E.L.R.)	1B.2B
R91, 92	0106223	22kΩ	1B.2B
R93, 94	0106103	10kΩ	1B.2B
R95, 96	0106392	3.9kΩ	1B.2B
R97, 98	0106223	22kΩ ¼W C.R. (E.L.R)	1B.2B
R99, 100	0106821	820Ω	1B.2B
R101, 102	0106471	470Ω	1AB. 2AB
R103, 104	0107333	33kΩ ¼W C.R.	1B.2B

Parts No.	Stock No.	Description	Position
R107, 108	0106473	47kΩ ¼W C.R. (E.L.R)	1A.2A
R109, 110	0106823	82kΩ	1A.2A
R111, 112	0107393	39kΩ ¼W C.R.	1B.2A
R113, 114	0107274	270kΩ	1A.2A
R121, 122	0106473	47kΩ ¼W C.R. (E.L.R)	1A.2A
R123, 124	0106473	47kΩ	1B.2B
R125, 126	0106473	47kΩ	1B.2B
R127, 128	0106103	10kΩ	1B.2B
R129, 130	0106103	10kΩ	1B.2B
R131, 132	0106682	6.8kΩ	1A.2A
R133, 134	0106682	6.8kΩ	1A.2A
R135, 136	0106104	100kΩ	1A.2A
R137, 138	0106823	82kΩ	1A.2A
R139, 140	0107274	270kΩ ¼W C.R. (E.L.R)	1A.2A
R141, 142	0106104	100kΩ	1B.2B
R143, 144	0106823	82kΩ	1B.2B
R145, 146	0107394	390kΩ	1B.2A
R147, 148	0106102	1kΩ	1A.2A
R601	0106272	2.7kΩ	1D
R602	0106472	4.7kΩ	1C, D
R603	0106103	10kΩ	1D
R604	0106471	470Ω	1C, D
R605	0106272	2.7kΩ	1D
R606	0107562	5.6kΩ ¼W C.R.	2D
R607	0106103	10kΩ	2D
R608	0106102	1kΩ	2D
R609	0109103	10kΩ	2D
R610	0106392	3.9kΩ ¼W C.R. (E.L.R)	2D
R611	0106821	820Ω	1D
R612	0106102	1kΩ	2C, D
R613	0106390	39Ω	1C
R614	0106820	82Ω	1B, C
R615	0104331	330Ω 1W C.R.	1D
R616	0104681	680Ω 1W C.R. (E.L.R)	1, 2A

Abbreviations

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

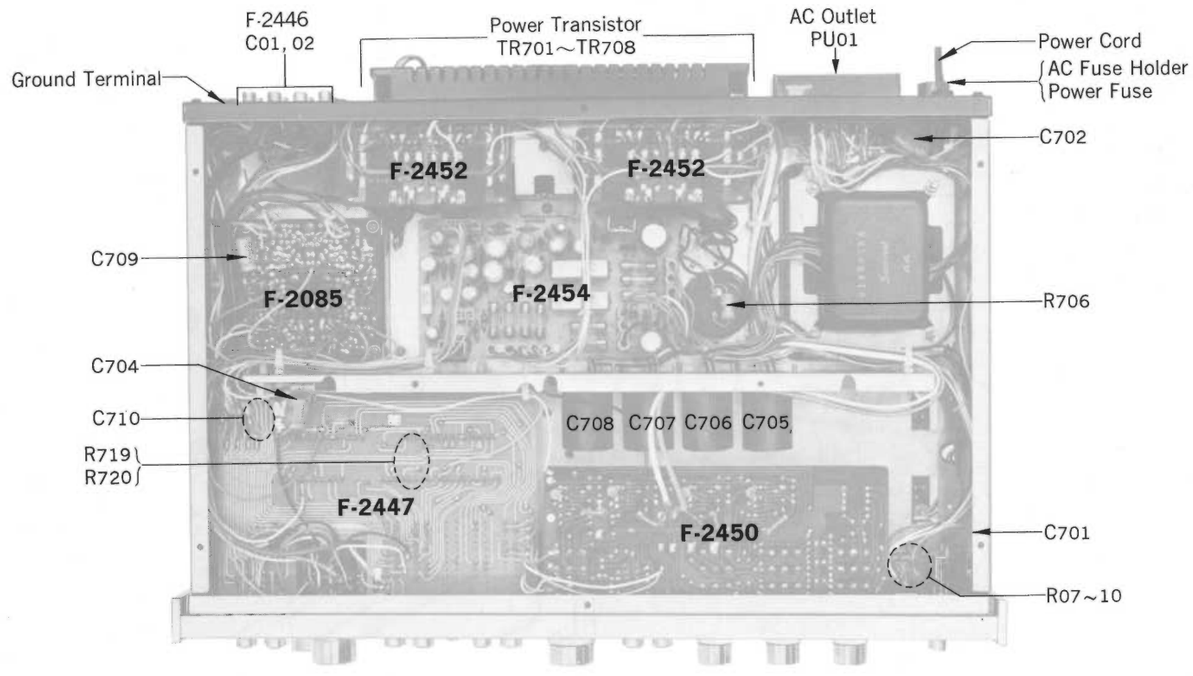
5-9. OTHER PARTS (Top Side)



Top Side Parts List

Parts No.	Stock No.	Description
	2480040	Din Connector
	4290021	FM Balum
	2210190	3P Antenna Terminal
T701	4200670	ARS-29B Bar Antenna
	5266441	Bar Antenna Holder
	2210200	4P Output Terminal
	2110011	ILI-lug Terminal
PT01	4002160	Power Transformer
VR703	1015120, 1	CD-4 CARRIER LEVEL Volume
	2420150	10P Multi Connector
	2420160	14P Multi Connector
	2420170	18P Multi Connector
C703	0559510	6800μF 63V E.C.
R701	0113122	1.2kΩ (Antenna Terminal) 1/4W S.R.
R701~R704	0107104	100kΩ (Cin Jack) 1/4W C.R.
R711~R714	0111681	680Ω 1/2W S.R.
R721, R722	0107102	1kΩ 1/4W C.R.
R705	0103221	220Ω 1/2W C.R.

5-10. OTHER PARTS (Bottom Side)

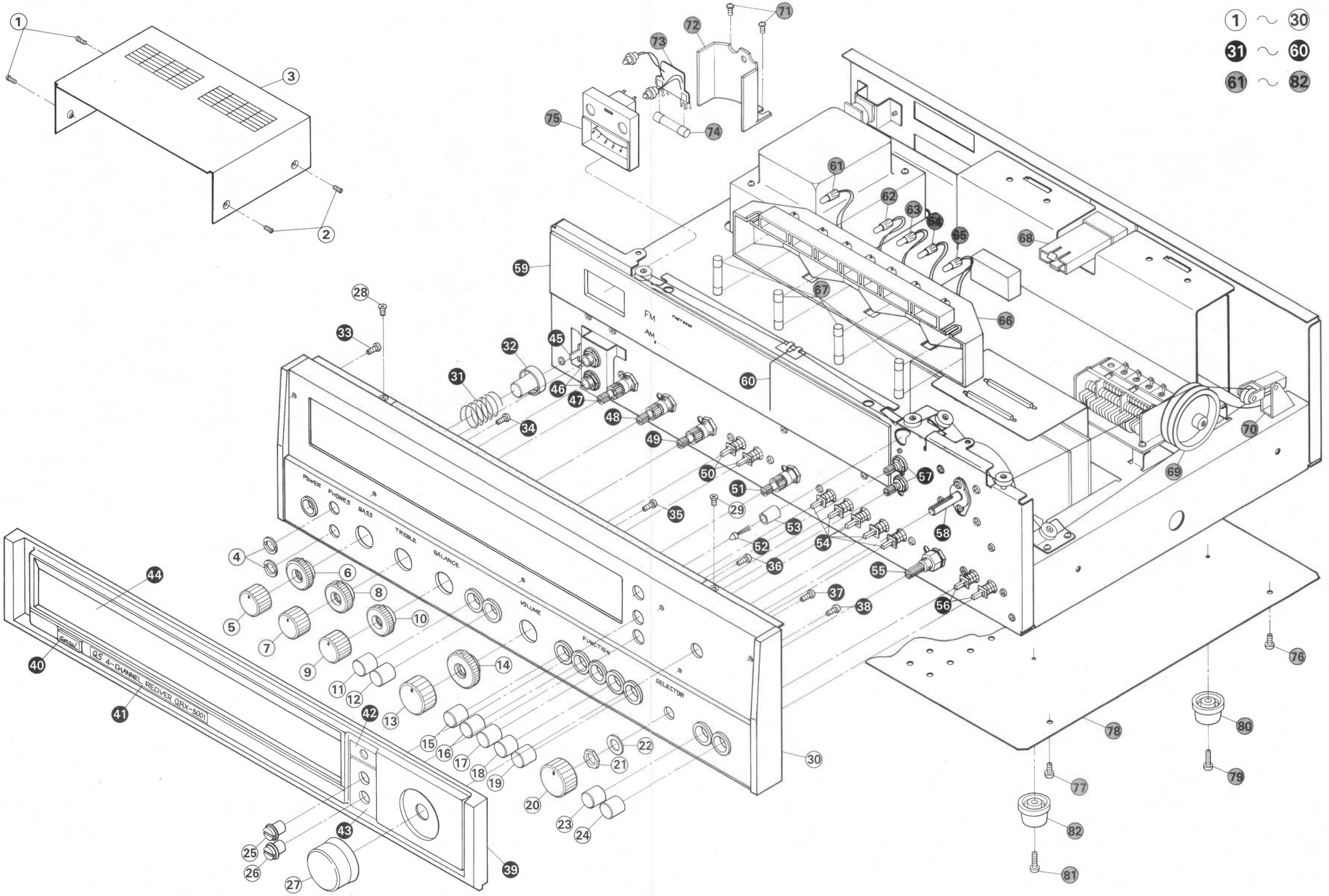


Bottom Side Parts List

Parts No.	Stock No.	Description
TR701~704	0306100, 1, 2	2SC1444 (R, O, Y) Power Transistor
	2230050	Ground Terminal
C071, 702	2450060	AC Outlet
PV01	2410090	Voltage Selector Plug
	2410080	Voltage Selector Socket
	5268600	Voltage Selector Cover
	3800020	Power Cord
	2300060	AC Fuse Holder
	0431270, 2 or 0431240, 2	4A (100V~117V) / 2A (220V~240V)
C701	0659801	0.01μF 1.4kV C.C.
C702	0659802	0.0047μF 1.4kV C.C.
C710	0501102	1000μF 10V E.C.
C705~708	0559102	2200μF 35V E.C.
C709	0504221	220μF 35V E.C.
C704	0503221	220μF 25V E.C.
R07~10	0171271	270Ω 1W M.R.

Parts No.	Stock No.	Description
R719, 720	0107474	470kC 1/4W C.R.
R906	0105392	3.9kΩ 2W C.R.
	2592150	F-2446 14P Input Terminal
C01~02	0657473	0.047μ 50V C.C.
	2592120	F-2452 Connector Board
C01~08	0657473	0.047μ 50V C.C.
R01~08	0132478	0.47Ω 2W Ce.R.

5-11. OTHER PARTS (Front Side)



Front Side Parts List

Parts No.	Stock No.	Description
1	5101161	Binding Head Screw, 4×6
2	5101161	Binding Head Screw, 4×6
3	5006360	Bonnet
4	5176082	Jack Nut
5	5317760	WI-2 Type knob, BASS Volume
6	5317671	W0-1 Type knob, BASS Volume
7	5317760	WI-2 Type knob, TREBLE Volume
8	5317671	W0-1 Type knob, TREBLE Volume
9	5317760	WI-2 Type knob, BALANCE Volume
10	5317671	W0-1 Type knob, BALANCE Volume
11	5326490	Push Button, 2-CH DIRECT Switch
12	5326490	Push Button, LOUDNESS Switch
13	5317830	WI-3 Type knob, VOLUME (Front)
14	5317840	W0-2 Type knob, VOLUME (Back)
15	5326490	Push Button, 2-CH DIRECT Switch
16	5326490	Push Button, QS SYNTHESIZER Switch
17	5326490	Push Button, QS Switch
18	5326490	Push Button, ※SQ Switch
19	5326490	Push Button, CD-4 Switch
20	5317730	M-3 Type Knob, SELECTOR Switch
21	5110781	HEX. NUT 9ϕ
22	5120184	Plain Washer 9ϕ
23	5326490	Push Button, AUX Switch
24	5326490	Push Button, TAPE MONITOR Switch
25	5318030	CD-4 SEPARATION Knob (L-CH)
26	5318030	CD-4 SEPARATION Knob (R-CH)
27	5318070	T-10 Type Knob, TUNING
28	5102843	Flat Countersunk Head Screw, 3×6
29	5102843	Flat Countersunk Head Screw, 3×6
30	7007030	Front Panel Ass'y
	5396190	Knob Ring
	5186270	Ring, POWER Switch
31	6906031	Spring, POWER switch
32	7106083	Push Button, POWER switch
33	5101043	Binding Head Screw, 3×6
34	5101043	Binding Head Screw, 3×6
35	5101043	Binding Head Screw, 3×6
36	5101043	Binding Head Screw, 3×6
37	5101043	Binding Head Screw, 3×6
38	5101043	Binding Head Screw, 3×6
39	5309360	Panel Window Ass'y
40	5336500	Sansui Mark
41	5336510	Name Plate
42	5426361	Indicator Plate
43	5426370	CD-4 Separation plate
44	5047790	Smoked Glass
45	1130350	Push Switch, POWER
46	2430210	Head Phone Jack
47	1060390, 1	BASS Volume 100kΩA
48	1060390, 1	TREBLE Volume 100kΩA
49	1060380, 1	BALANCE Volume 250ΩMN
50	1131000	Push Switch, 2-CH DIRECT, LOUDNESS
51	1060370, 1	Master VOLUME 250kΩB
52	0319030	LED, CD-4 Indicator
53	5286160	Diode Holder
54	1130980	Push Switch, FUNCTION
55	1102590, 1	Rotary Switch, SELECTOR
56	1130990	Push Switch, AUX, TAPE MONITOR
57	1005180, 1	CD-4 SEPALATION Volume 50kΩ
58	7036410	Tuning Unit
59	5407780	Dial Grass
60	5416360	Dial Pointer

Parts No.	Stock No.	Description
61	0400420	Lead Type Lamp (7V 100mA), FM STEREO, Indicator
62	0400420	Lead Type Lamp (7V 100mA), QS SYNTHESIZER
63	0400420	Lead Type Lamp (7V 100mA), QS
64	0400420	Lead Type Lamp (7V 100mA), ※SQ
65	0400390	Lead Type Lamp (6V 30mA), CD-4
66	5066211	Illmination Box
67	0420040	Dial Scale Lamp (7V 320mA)
68	5268671	Bar Antenna Holder Case
69	6146651	D-44ϕ Pulley
70	7136050	Tension Unit
71	5109122	Binding Head Tapping Screw, 3×8
72	5269330	Meter Holder
73	7726060	Meter Lamp Unit
74	0420040	Meter Lamp (7V 320mA)
75	4300610, 1	Signal Meter
76	5109121	Binding Head Tapping Screw, 3×6
77	5109121	Binding Head Tapping Screw, 3×6
78	5058261	Bottom Plate
79	5103545	Pan Head Tapping Screw, 3×16
80	5516911	Foot
81	5103545	Pan Head Tapping Screw, 3×16
82	5516911	Foot

6. THREADING OF DIAL CORD

* If a dial cord is cut off or slips, replace it by following procedures.
  As QRX-5001 uses 0.6mmϕ Cord, please replace it with the same type certainly.
* The length of dial cord is approximately 170cm (66 inch).

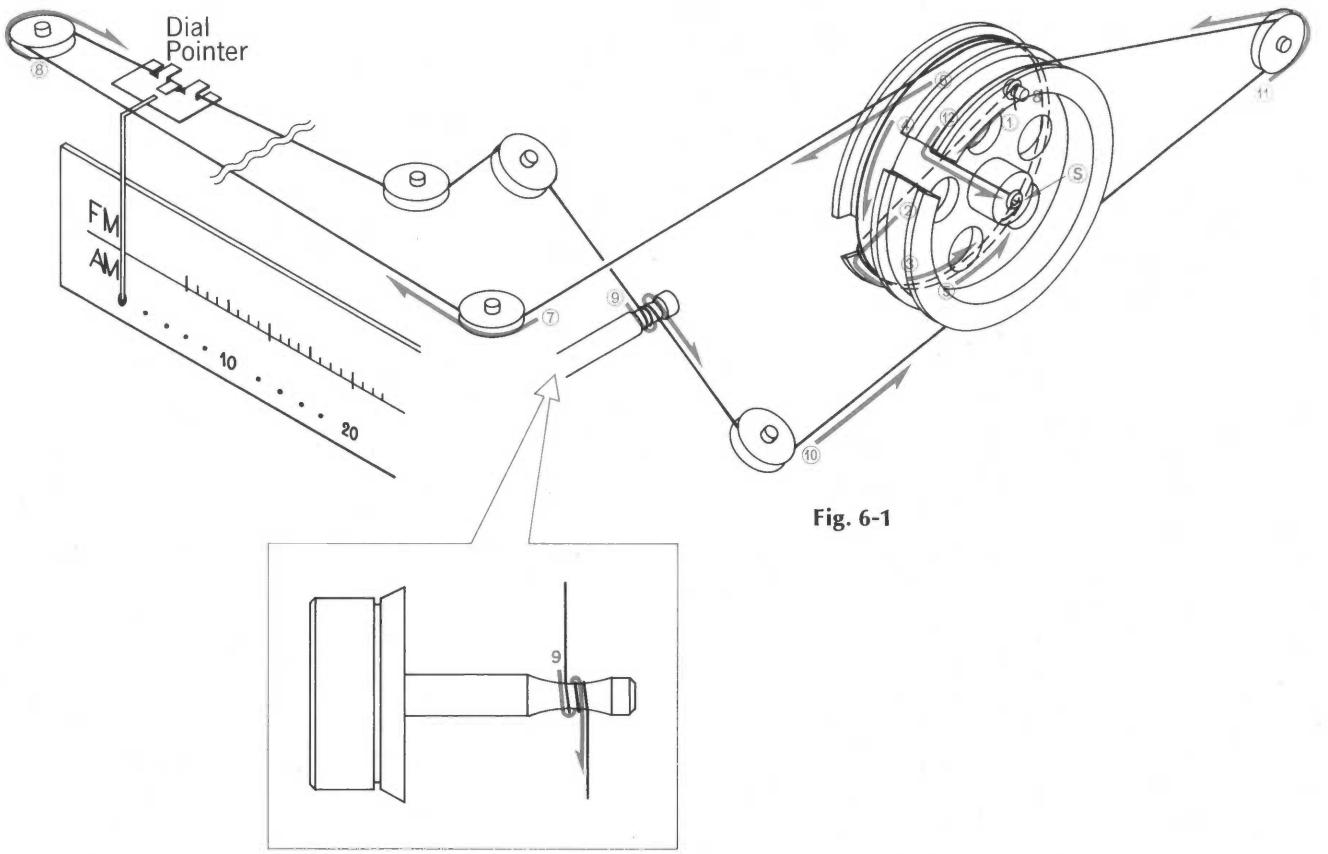


Fig. 6-1

1. Threading of Dial Cord.

Thread the dial cord in numerical order from ① to ⑫ as Fig. 6-1.

1) Close the variable capacitor completely (Max. capacitance).
2) Only when you replace variable capacitor with new one, turn up the screw Ⓢ completely so that the screw 8 on dial pulley is positioned as shown in Fig. 6-1.
3) Tie the cord to screw 8 and thread it in the direction of arrow from ① to ⑥
4) Then, after winding the cord 3 turns around the tuning shaft counterclockwies, thread it from ⑦ to ⑫.
5) After ⑫, tie the cord to the screw Ⓢ of the dial pulley.
   *To strengthen the dial cord's tension, hold the end of cord, then pull it toward the front panel.
   Turn tuning shaft counterclockwies so that the cord's tension will be more obtained.
   *After procedure 5), lock the knot Ⓢ of the cord and the screw 8 with paint.

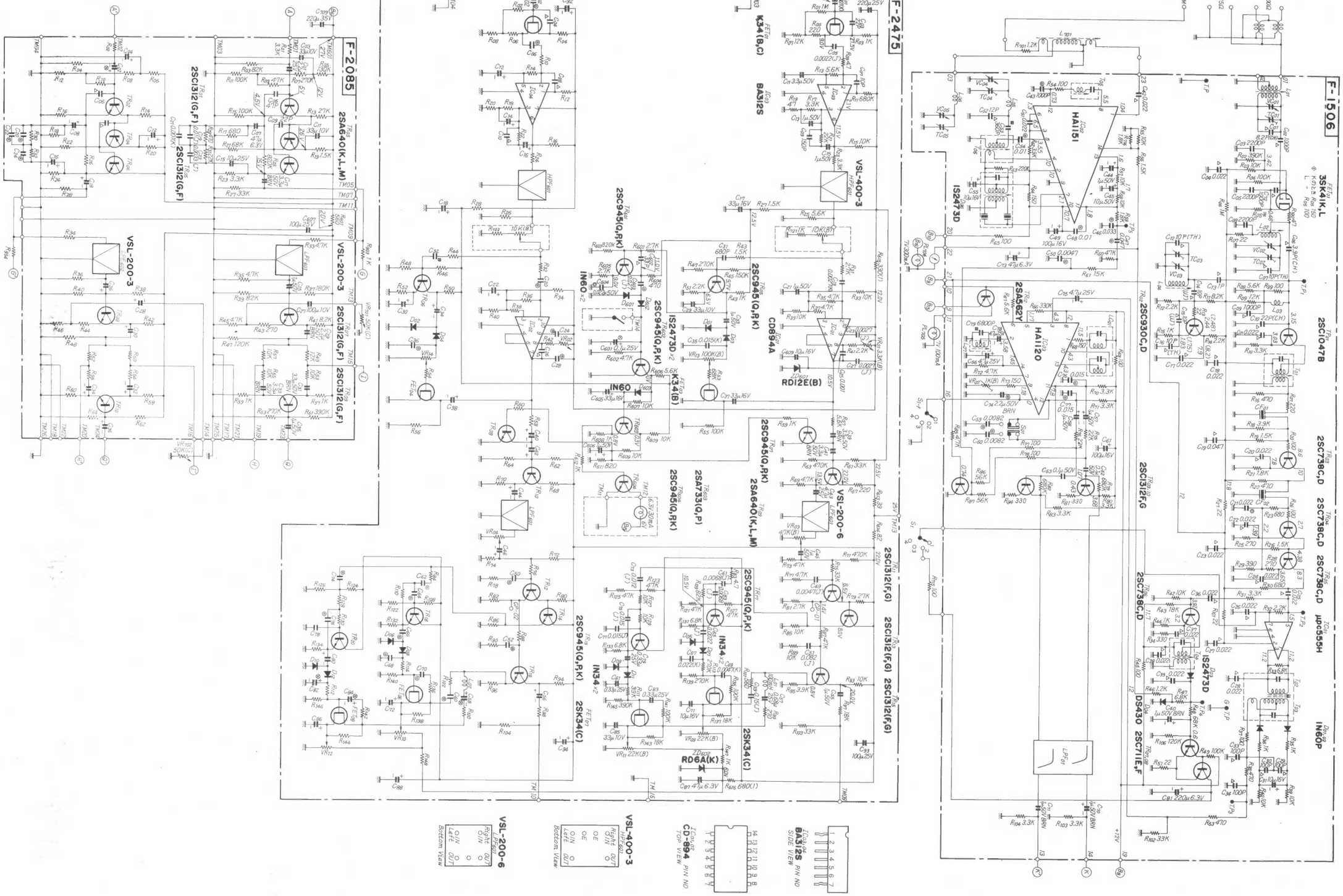
2. Attachment of Dial Pointer

1) Close the variable capacitor completely.
2) Set the dial pointer to the position on dial scale as shown in Fig. 6-1.
   *Confirm that the dial pointer runs smoothly on the dial scale by turning the tuning shaft.

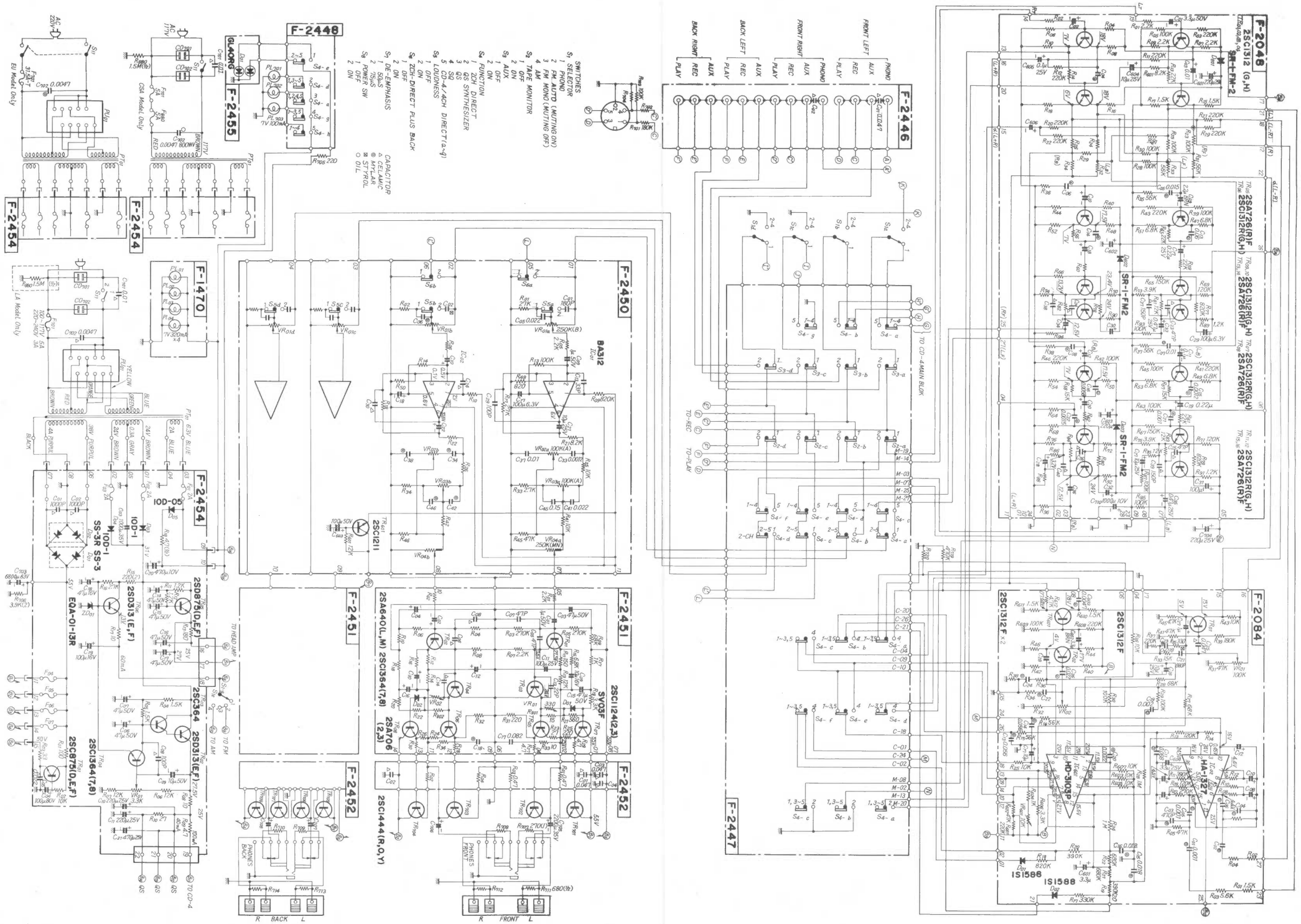
Stock No.	Description
6036050	Dial Cord (0.6mmϕ)

7. SCHEMATIC DIAGRAM 〈No. 1〉

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

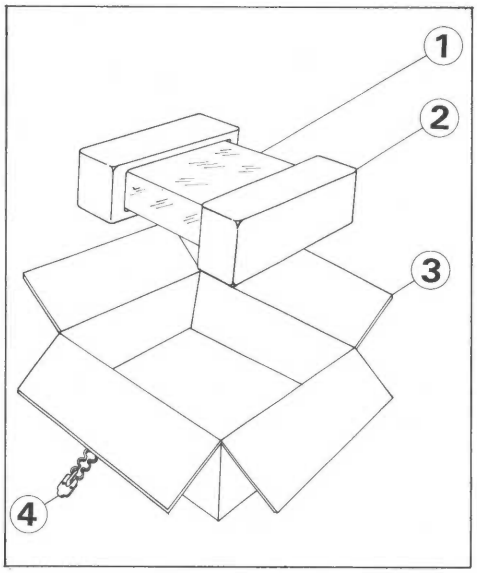


SCHEMATIC DIAGRAM 〈No. 2〉



8. PACKING LIST

Parts No.	Stock No.	Description
1	9116013	Vinyl Cover
2	9027840	Stylofoam Packing
3	9008191	Carton Case
4	5996080	Curl Stopper



9- ACCESSORY PARTS LIST

Stock No.	Description
3820091	FM Antenna
0433630	4A Quick Acting Fuse
9208440	Operating Instructions
9228440	Operating Instruction Sheet
9416010	CD-4 Adjustment Record

Sansui

SANSUI ELECTRIC CO., LTD.
14-1, 2-chome, Izumi, Suginami-ku, Tokyo 168, Japan
TELEPHONE: (03) 323-1111/TELEX: 232-2076

SM033

Printed in Japan (D4520M)