

SERVICE MANUAL

AM/FM STEREO RECEIVER

SANSUI 9090/8080



Sansui

SANSUI ELECTRIC CO., LTD.

NOTE:

This service manual includes two model numbers, # 9090 and # 8080 together as indicated Model ① and ② in parts lists, schematic diagram and others.

MODEL ①.....# 9090

MODEL ②.....# 8080

When ordering parts, use the parts name and stock No. after confirming either Model ① or ②.

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
1. SPECIFICATIONS		2
2. THREADING OF DIAL CORD		3
2-1.	Threading of Dial Cord	3
2-2.	Attachment of Dial Pointer	3
3. ALIGNMENTS AND ADJUSTMENT		3
3-1.	Driver Circuit Board Adjustment	4
3-2.	FM Adjustment & Alignment	4, 5, 6
3-3.	AM IF Adjustmet & Tracking	6
4. OPERATION BLOCK DIAGRAM		7
4-1.	Tuner Section	7
4-2.	Audio Section	7
5. TROUBLE SHOOTING CHART		8
5-1.	Audio Section	8
5-2.	Tuner Section	9
6. PARTS LOCATION AND PARTS LIST		10
6-1.	F-2546 Power Supply Circuit Board	10
6-2.	F-2547 Protector Circuit Board	11
6-3.	F-2543 Tone Control Circuit Board	11
6-4.	F-2436 Driver Circuit Board	12
6-5.	F-2545 Filter & Muting Circuit Board	12
6-6.	F-2541 Equalizer Circuit Board	13
6-7.	F-2431 Power Supply Circuit Board	13
6-8.	F-2544 Tone Control Circuit Board	14
6-9.	F-2542 Accessory Switch Circuit Board	14
6-10.	F-2549 FM, AM Tuner Circuit Board	15, 16
6-11.	F-2550 Multi-Path Circuit Board	16
6-12.	F-1470 Lamp Circuit Board	16
6-13.	F-2597 Connector Circuit Board	16
6-14.	F-2548 Protector Connector Circuit Board	16
6-15.	F-1519 FM Pack	17
6-16.	Figures	17
7. SCHEMATIC DIAGRAM		18, 19, 20
8. OTHER PARTS		21
8-1.	Other Parts (Top Side)	21
8-2.	Other Parts (Front Side)	21, 22
9. PACKING LIST		22
10. ACCESSORY PARTS LIST		22

1. SPECIFICATIONS

AUDIO SECTION

POWER OUTPUT

Min. RMS, both channels driven, from 20 to 20,000Hz, with no more 0.2% total harmonic distortion

- *MODEL ① { 110 watts per channel into 8 ohms
Min. RMS, both channels driven, at 1kHz, with no more than 0.2% total harmonic distortion 120 watts per channel into 8 ohms
- *MODEL ② { 80 watts per channel into 8 ohms
Min. RMS, both channels driven, at 1kHz, with no more than 0.2% total harmonic distortion 90 watts per channel into 8 ohms

LOAD IMPEDANCE 8 ohms

POWER BANDWIDTH 20 to 20,000Hz at or below rated min. RMS power output and total harmonic distortion

TOTAL HARMONIC DISTORTION

..... less than 0.2% at or below rated min. RMS power output

INTERMODULATION DISTORTION

(70Hz : 7kHz = 4.1 SMPTE method)

..... less than 0.2%

FREQUENCY RESPONSE (at 1 watt)

..... 10 to 30,000Hz ± 1 dB

RIAA CURVE DEVIATION (PHONO)

..... +0.5dB, -0.5dB
(30Hz to 15kHz)

DAMPING FACTOR approximately 10 at 8 ohm load

INPUT SENSITIVITY AND IMPEDANCE

(1kHz. for rated power output)

PHONO 2.5mV/50 kilo ohms

(Max. input capability: 200mV at 1kHz, less than 0.2% total harmonic distortion.)

TAPE PLAY, AUX 100mV/50 kilo ohms

OUTPUT LEVEL (1,000Hz)

TAPE-1, 2 REC (pin jacks)

..... 100mV

TAPE-2 REC/PLAY (DIN socket)

..... 30mV

PRE OUT 750mV

CHANNEL SEPARATION (at rated output 1,000Hz)

PHONO better than 50dB

TAPE PLAY, AUX better than 50dB

HUM AND NOISE

PHONO better than 70dB

TAPE PLAY, AUX better than 80dB

CONTROLS

BASS ± 10 dB (50Hz)

*MODEL ① ONLY

TONE SELECTOR (turnover frequency)

..... 150, 300Hz

MIDRANGE ± 5 dB (1.5kHz)

TREBLE ± 10 dB (10kHz)

*MODEL ② ONLY

TONE SELECTOR (turnover frequency)

..... 1.5, 3kHz

LOUDNESS +10dB (50Hz)

+8dB (10kHz)

LOW FILTER -10dB (50Hz)

HIGH FILTER -10dB (10kHz)

AUDIO MUTING -20dB

FM SECTION

TUNING RANGE 88 to 108MHz

SENSITIVITY (IHF) 1.7 μ V

(DIN) 0.9 μ V

QUIETING SLOPE (Mono) .. 3 μ V (50dB)

TOTAL HARMONIC DISTORTION

STEREO less than 0.3%

NONO less than 0.2%

SIGNAL TO NOISE RATIO (mono)

SELECTIVITY better than 85dB

CAPTURE RATIO less than 1.5dB

IMAGE REJECTION better than 75dB (98MHz)

IF REJECTION better than 90dB (98MHz)

SPURIOUS REJECTION better than 90dB (98MHz)

SPURIOUS RADIATION less than 34dB

STEREO SEPARATION better than 40dB (1kHz)

FREQUENCY RESPONSE 30 to 15,000Hz $^{+0.5}_{-2.0}$ dB

ANTENNA INPUT IMPEDANCE

..... 75 Ω unbalanced

300 Ω balanced

AM SECTION

TUNING RANGE 535 to 1,605kHz

SENSITIVITY (Bar antenna) .. 50dB/m (1,000kHz)

SELECTIVITY better than 50dB (1,000kHz)

IMAGE REJECTION better than 80dB/m
(1,000kHz)

IF REJECTION better than 80dB/m
(1,000kHz)

OTHERS

POWER REQUIREMENTS

POWER VOLTAGE 100, 120, 220, 240V (50/60Hz)

POWER CONSUMPTION

*MODEL ① 270 watts (rated)

*MODEL ② 180 watts (rated)

DIMENSIONS 540mm (21- $\frac{5}{16}$ ") W

182mm (7- $\frac{3}{16}$ ") H

399mm (15- $\frac{1}{16}$ ") D

WEIGHT

*MODEL ① { 23.3 kg (51.4 lbs) net
25.7 kg (56.7 lbs) packed

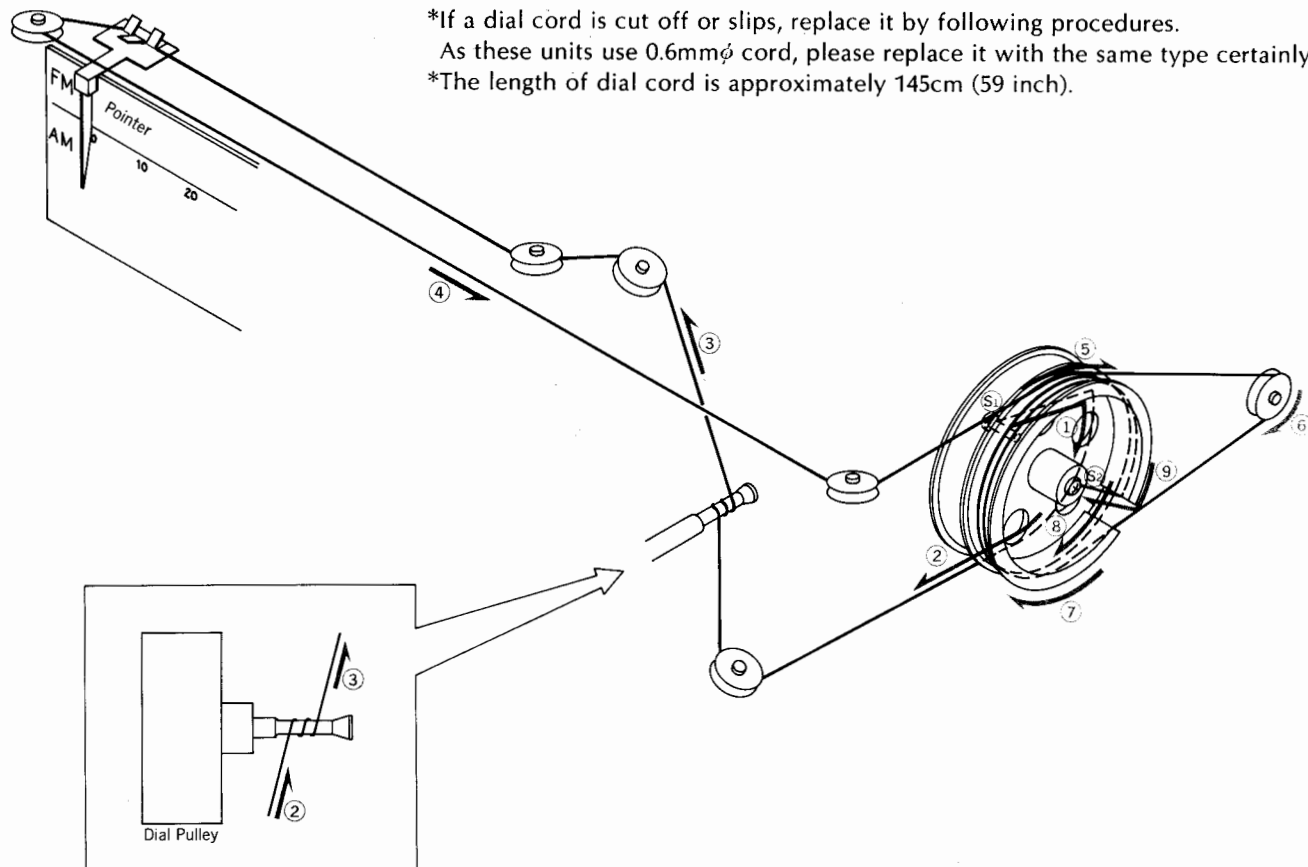
*MODEL ② { 20.9 kg (46.1 lbs) net
23.3 kg (51.4 lbs) packed

NOTE: In this specifications, there are two model numbers as model ① and ②. Regarding name of model ①, ②, please refer to "Notes" indicated on page 1.

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

2. THREADING OF DIAL CORD

*If a dial cord is cut off or slips, replace it by following procedures.
 As these units use 0.6mm ϕ cord, please replace it with the same type certainly.
 *The length of dial cord is approximately 145cm (59 inch).



2-1. Threading of Dial Cord

Thread the dial cord in numerical order from ① to ⑨ as Fig. 2-1.

- 1) Close the variable capacitor completely (Max. capacitance).
- 2) Tie dial cord to the screw, S1.
- 3) Thread cord in the direction of arrow from ① to ⑨
- 4) After ⑨, tie the cord to the screw S2 of the dial pulley.

2-2. Attachment of Dial Pointer

- 1) Close the variable capacitor completely.
 - 2) Set the dial pointer to the 0 position on dial scale.
- *Confirm that the dial pointer runs smoothly on the dial scale by turning the tuning shaft.

Stock No.	Description
6036051	Dial Cord (0.6mm ϕ)
6146670	D44 Type Pulley

3. ALIGNMENTS AND ADJUSTMENT

Abbreviation

Equipment

AM FM Generator Oscilloscope Genescope
 AM Signal Generator AM SG
 FM Signal Generator FM SG
 Multiplex Stereo Generator Scope
 Oscilloscope Audio Osc.
 Audio Oscillator Dist. Meter

Others

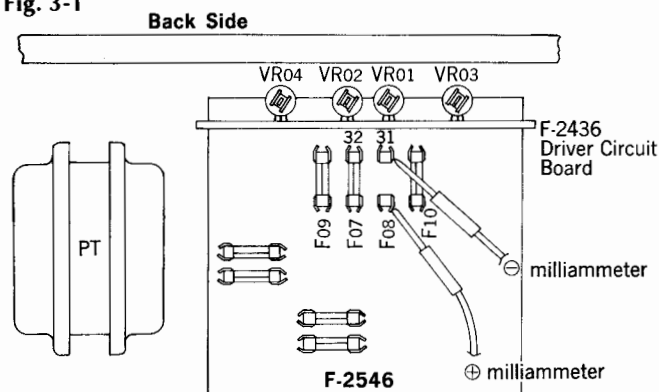
Clockwise CW.
 Counterclockwise CCW.
 Antenna ANT.
 Modulation MOD.

3-1. Driver Circuit Board Adjustments (See Fig. 3-1, 3-2 on page 4)

Note: 1. Master Volume.....Minimum
2. Before adjustment, run the unit for more than 4 minutes, then check and readjust necessary.

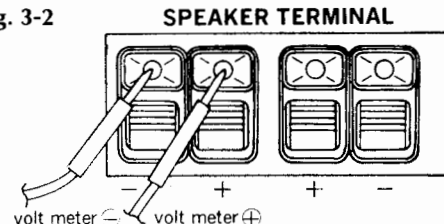
STEP	SUBJECT	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1.	DC 0V L-CH	DC volt Meter	Speaker Terminal L-CH	VR01 F-2436	0V $\pm$ 10mV	◦ Step down meter range accordingly. ◦ Change leads polarity if meter swings backward.
2.	DC 0V R-CH	Same as above	Speaker Terminal R-CH	VR02 F-2436	Same as above	Same as above
3.	Bias Current L-CH	DC Milliammeter	F07 F-2546	VR03 F-2436	*MODEL A 50mV $\pm$ 1 mA 30mA $\pm$ 1 mA *MODEL B	◦ Step down meter range accordingly
4.	Bias Current R-CH	Same as above	F08 F-2546	VR04 F-2436	Same as above	◦ Same as above

Fig. 3-1



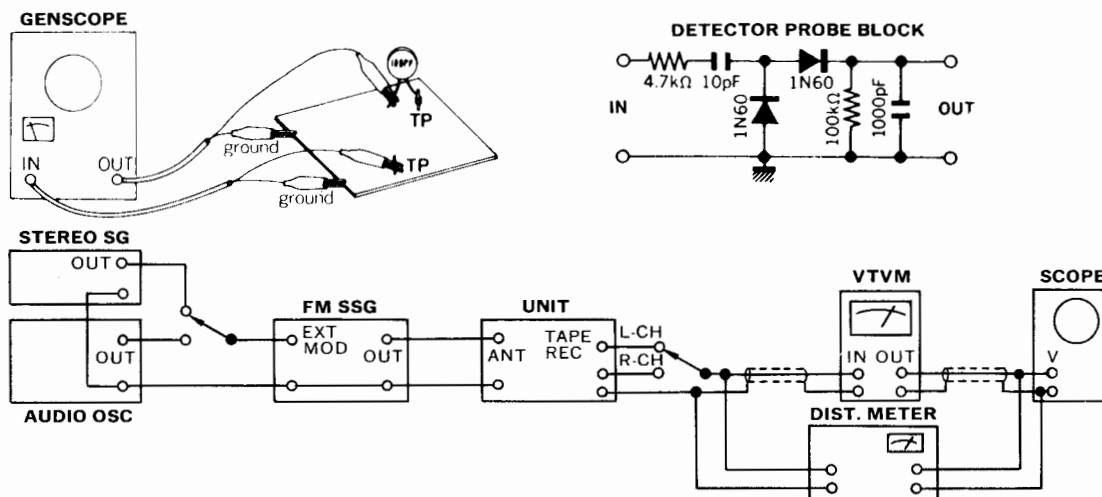
Note: In adjustment above, there are two model numbers as model A and B. Regarding name of model A, B, please refer to "Note" indicated on page 1.

Fig. 3-2

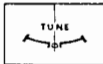


3-2. FM Adjustment & Alignment

Note: 1. Selector.....FM AUTO 2. FM MUTING SwitchOFF
3. Connection.....Connect the output of genscope to TP through 100pF ceramic capacitor.
4. Sweep width1.5~2cm/150kHz
Frequency band9.5~11.5MHz



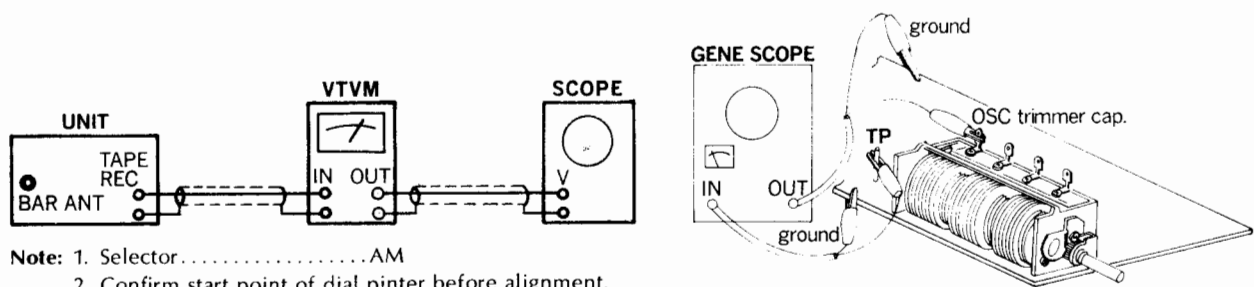
1) FM IF Adjustment & Tracking (See Fig. 3-3, 3-4, 3-5 on page 6)

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1.	IF coil	Output 90dB Genescope	TP01 FM, AM Pack F-1519	Terminal 01 of F-2549. Use Detector Probe	L05 F-1519	Max. IF waveform	
		Output 50dB Genescope	Same as above	TP01 F-2549	T01 F-2549	Same as above	
2.	Muting Coil	Output 50dB Genescope	Same as above	TP04 F-2549	T04 F-2549	Same as above	
3.	Discriminator Coil	Output 50dB Genescope	Same as above	TP03 F-2549	T02 T03 F-2549	Max. linearity of S Curve	
4.	90MHz Dial Calibration	90MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	ANT Terminal 300Ω	REC OUT L or R-CH VTVM & Scope	L06 F-1519	Max. Output	
	106MHz Dial Calibration	106MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	TC04 F-1519	Same as above	
5.	90MHz RF Adj.	90MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	L01, L02, L03 F-1519	Same as above	
	106MHz RF Adj.	106MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	TC01 TC02 TC03 F-1519	Same as above	
6.	Signal Meter Volume	98MHz ANT Input 100dB 400Hz (100% MOD) FM SSG	Same as above	Signal Meter	VR02 F-2549	4.7 on meter	
7.	Distortion	98MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	REC OUT L or R-CH Dist meter & Scope	T02 T03 T01 F-2549	Max. Output Min. Distortion	T01.. Slightly adjust
8.	Tune Meter Volume	98MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Tune meter	VR01 F-2549	Center on meter	

2) MPX Alignment (See Fig. 3-4, 3-5 on page 6)

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1.	PLL VCO Adj.	98MHz ANT Input 60dB FM SSG Pilot 19kHz (10% MOD) L-CH 1kHz (45% MOD) R-CH (0% MOD) STEREO SG	ANT Terminal 300Ω	Stereo Indicator	VR04 F-2549	Light Indicator	Adjust the VR within center of lighting level.
	PLL VCO Adj. In case of using Freq Counter		Make short between TP03 of F-2549 and chassis	TP02 F-2549 Use Freq. Counter	VR04 F-2549	76kHz (±200Hz)	
2.	Separation	98MHz ANT Input 60dB FM SSG Pilot 19kHz (10% MOD) L-CH (0% MOD) R-CH 1kHz (45% MOD) STEREO SG	ANT Terminal 300Ω	REC OUT L-CH VTVM & Scope	VR05 F-2549	Min. Output -35dB	
3.	Distortion	Same as above	Same as above	REC OUT L-CH Dist. meter & Scope	L05 1 Side 2 Side AM, FM Pack F-1519	Min. Distortion	If less than 0.3%, adjust L05 slightly.
4.	Separation	98MHz ANT Input 60dB FM SSG Pilot 19kHz (10% MOD) L-CH 1kHz (45% MOD) R-CH (0% MOD) STEREO SG	Same as above	REC OUT R-CH VTVM & Scope	VR05 F-2549	Min. Output -30dB	
5.	Muting level & Indicator level	98MHz ANT Input 23dB FM SSG Pilot 19kHz(10% MOD) L-CH 1kHz (45% MOD) R-CH (0% MOD) STEREO SG	Same as above	Stereo Indicator	VR03 F-2549	Muting level 23dB Indicator lighting level 23dB	

3-3. AM IF Adjustments & Tracking (See Fig. 3-4, 3-5 on page 6)



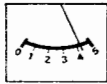
STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1.	IF Coil	Genescope Output 70dB	TC05 FM, AM Pack F-1519	TP06 F-2549	CF04 F-2549	Max. Output	
2.	600kHz Dial Calibration	600kHz ANT Input 60dB 400Hz (MOD 30%) AM SSG	AM ANT Terminal	REC OCT L or R-CH VTVM & Scope	T05 F-2549	Same as above	
	1400kHz Dial Calibration	1400kHz ANT Input 60dB 400Hz (MOD 30%) AM SSG	Same as above	Same as above	TC05 FM, AM Pack F-1519	Same as above	
3.	600kHz RF Adj.	600kHz ANT Input 50dB 400Hz (MOD 30%) AM SSG	Same as above	Same as above	Bar Antenna T702	Same as above	
	1400kHz RF Adj.	1400kHz ANT Input 50dB 400Hz (MOD 30%) AM SSG	Same as above	Same as above	TC06 FM, AM Pack F-1519	Same as above	
4.	Signal Meter	1000kHz ANT Input 80dB	Same as above	Signal Meter	VR06 F-2549	4.3 on meter	

Fig. 3-3

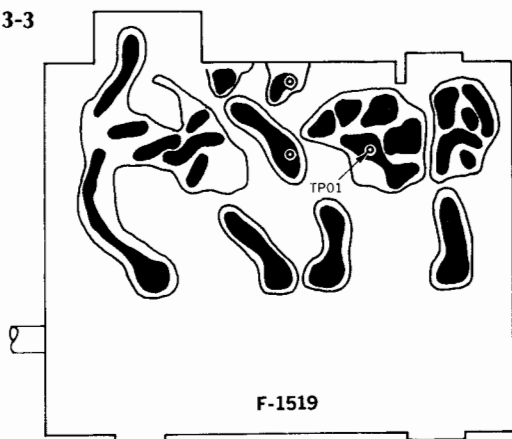


Fig. 3-4

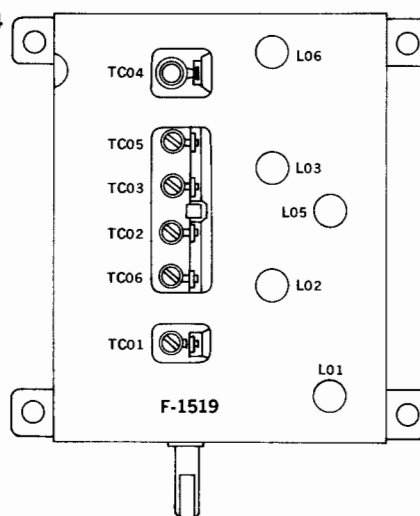
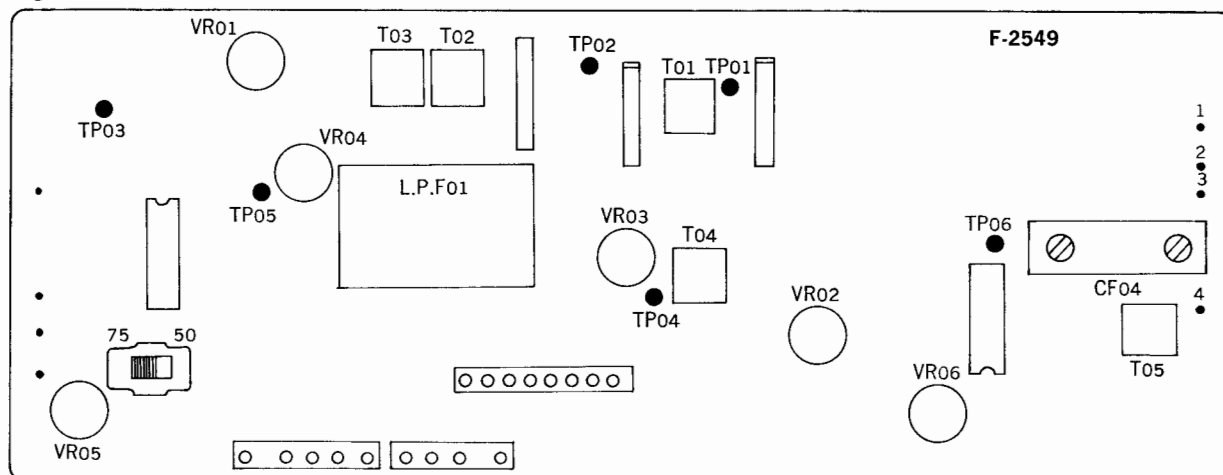


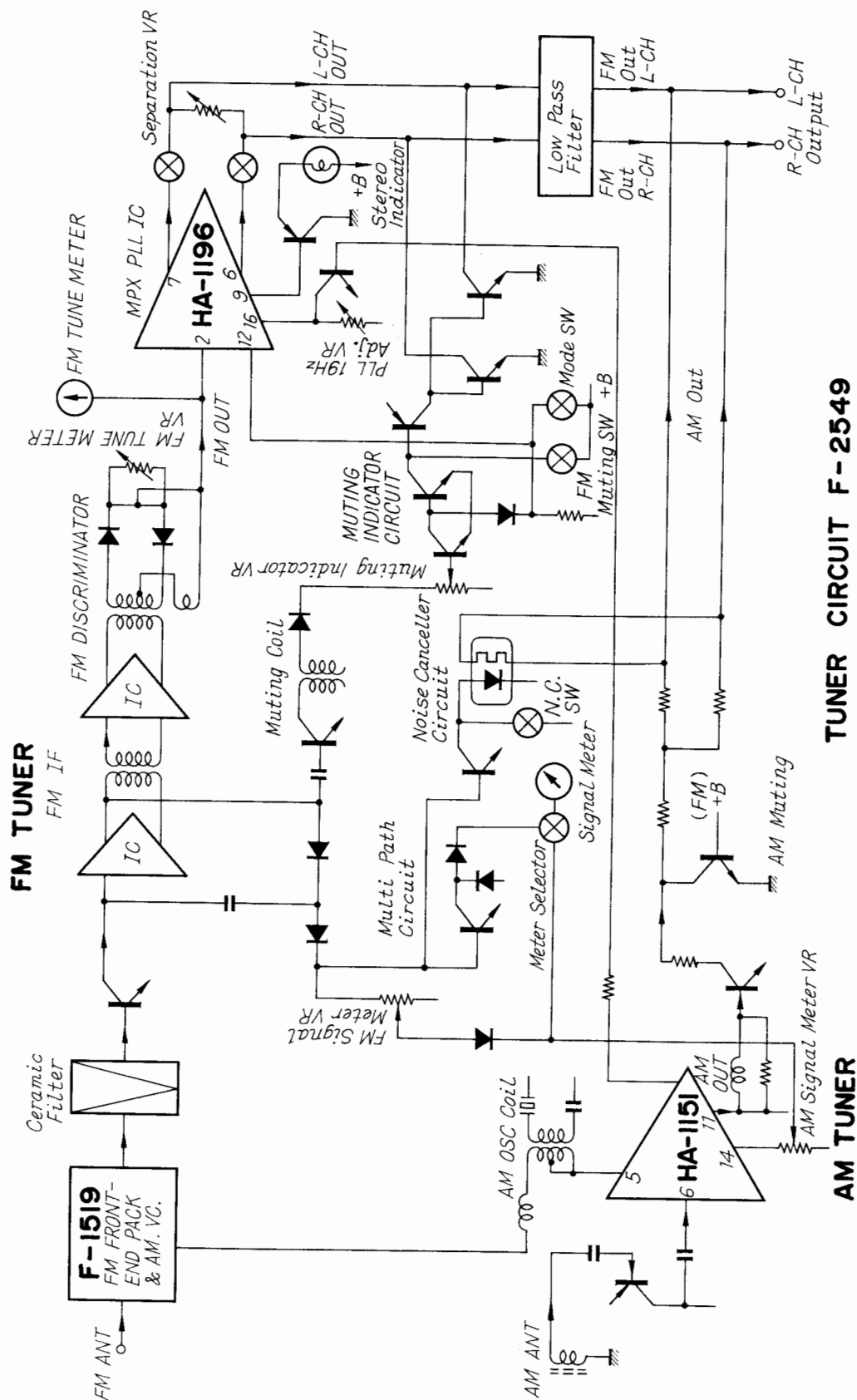
Fig. 3-5



4. OPERATION BLOCK DIAGRAM

4-2.

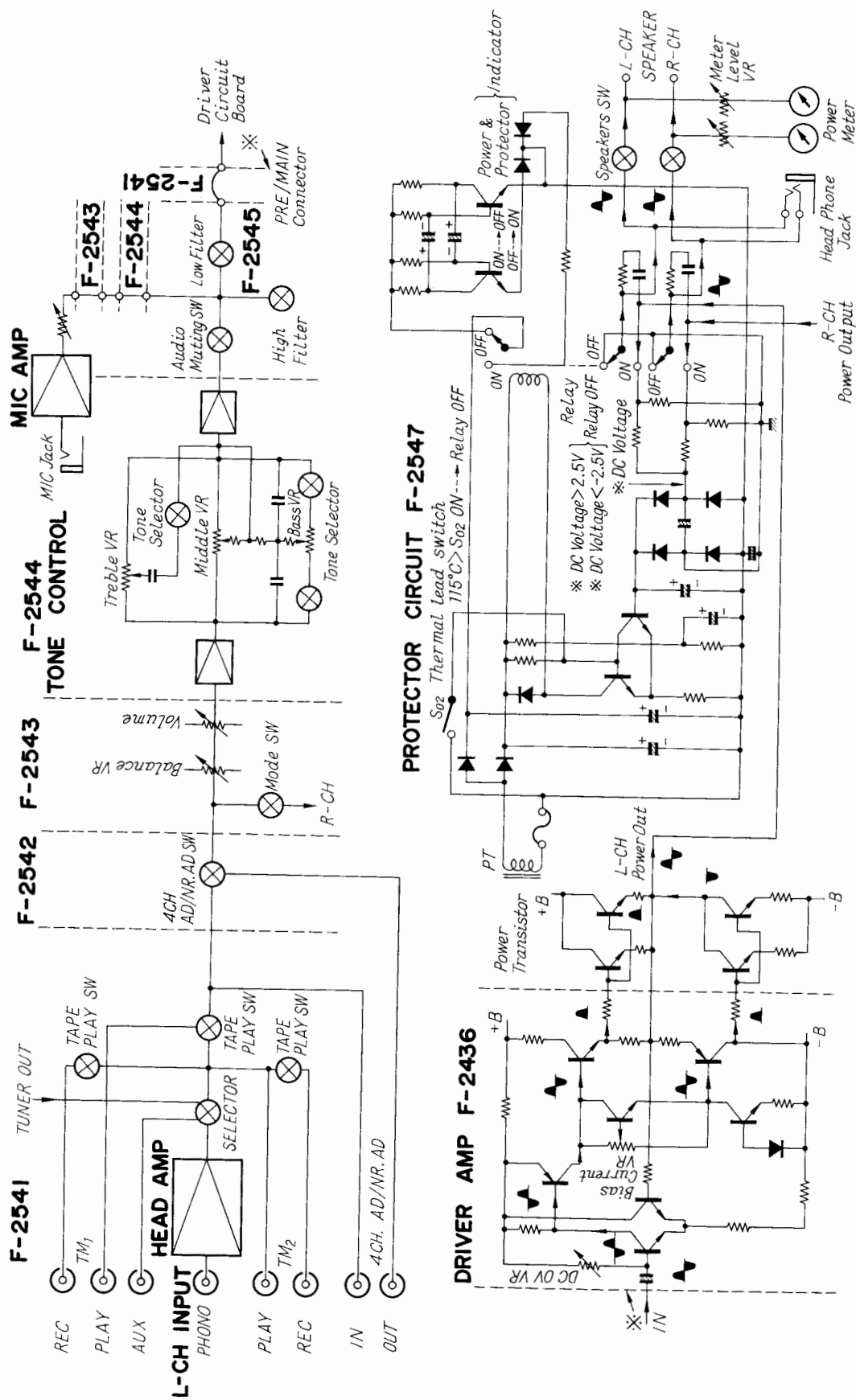
4-1. Tuner Section



TUNER CIRCUIT F-2549

AM TUNER

4-2. Audio Section



5. TROUBLESHOOTING CHART

5-1. Audio Section

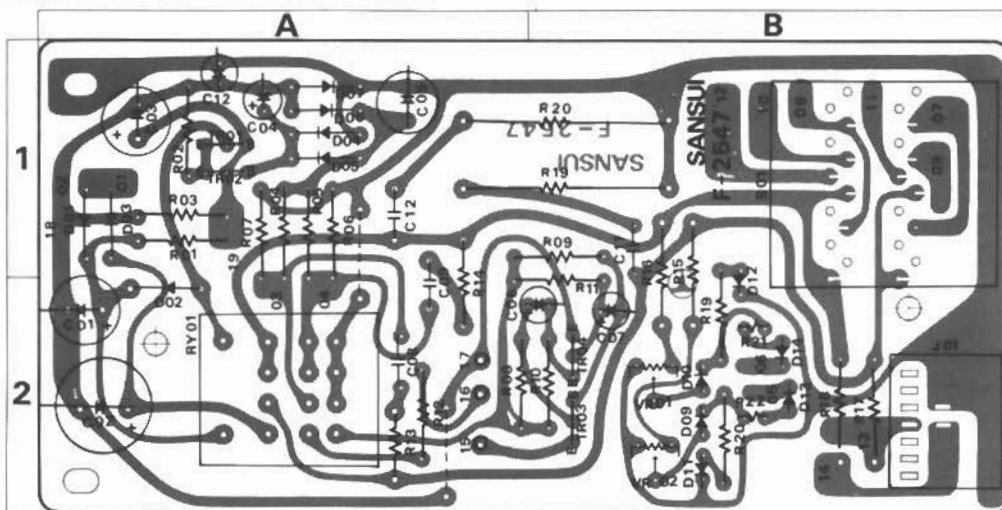
Symptom	Defective Circuit or Check Point	Cause
1) Troubles on Power Supply section	Defective parts in circuit on primary side of power transformer Defective rectifier circuit in secondary side of power transformer Defective or regulated power supply section	1. Power fuse, F701 opens 2. Defective power switch, S701 3. Imperfect contact of voltage selector 1. AC fuse, F01~F06 opens 2. Defective diode, D02, D03 on F-2546 1. Defective D01 on F-2546 2. Defective TR01~TR03 on F-2546
2) Troubles on protector section	Protector circuit inoperative when DC voltage is given to output of power stage Defective protection circuit with thermal lead switch Protector indicator does not flicker	1. Defective D04~D07 on F-2547 2. Defective TR01, TR02 on F-2547 3. Defective relay, RL01 1. Defective thermal lead switch, S702 2. Defective TR01, TR02 on F-2547 3. Defective relay, RL01 1. Defective TR03, TR04 on F-2547 2. Defective C06, C07 on F-2547 3. Defective LED01 on F-2548
3) Troubles on Power AMP. section	Quick acting fuse opens One channel inoperative Over-flow bias current	1. Power transistor shorted 2. Defective TR11~TR14 on F-2436 3. TR07 on F-2436 opens 4. Defective protector circuit 1. Defective TR01~TR03 on F-2436 1. Incorrect adjustment VR03, VR04 on F-2436
4) Troubles on Tone Control section	Inoperative tone control circuit Noise is produced by turning tone volume controls	1. Defective IC01 on F-2544 2. Defective TR01 on F-2544 1. Defective tone control volume VR01, VR02 on F-2544
5) Troubles on MIC AMP. section	Inoperative Mic AMP. circuit	1. Defective IC601 on F-2543 2. Defective TR601 on F-2543 3. Imperfect contact of MIC Jack
6) Troubles on Equalizer section	Inoperative equalizer circuit	1. Defective IC01, IC02 on F-2541 2. Imperfect contact of selector 3. Imperfect contact of Tape switch
7) Power meter inoperative	Meter circuit inoperative	1. Imperfect adjustment of VR01, VR02 on F-2547 2. Defective M701, M702 3. Defective D10~D12 on F-2547

5-2. Tuner Section

Symptom	Defective Circuit or Check Point	Cause
1) Both AM and FM inoperative	Power supply section inoperative	1. Defective TR01 on F-2431 2. Imperfect contact of selector switch
2) AM inoperative	Defective semiconductors Defective coils	1. Defective TR12 on F-2549 2. Defective IC05 on F-2549 3. Defective TR13, TR14 on F-2549 1. Osc coil opens 2. Bar antenna coil opens
3) AM poor sensitivity	Incorrect adjustment	1. IF or Tracking out of adjustment
4) Signal meter does not properly operate	Defective meter circuit	1. Signal meter volume, VR06 out of adjustment 2. Defective signal meter, M703
5) FM inoperative	Defective FRONT-END PACK F-1519 Defective IF section	1. Defective FET01, TR01, 02 on F-1519 2. Coil, L01~L06 on F-1519 opened 1. Defective TR01~TR03 on F-2549 2. Defective IC01~IC03 on F-2549 3. T01, T02 on F-2549, opened
6) FM poor sensitivity	Incorrect adjustment Poor FM input signal	1. RF and Tracking out of adjustment 2. IF coil and discriminator coil out of adjustment 1. Weak electric field intensity area
7) Signal meter does not properly operate	Defective meter circuit	1. Defective D05~D07 on F-2549 2. Signal meter volume VR02 out of adjustment
8) MPX inoperative	Defective PLL circuit Defective semiconductors	1. Defective IC04 on F-2549 2. TR10, TR11 on F-2549 shorted
9) No channel separation on FM stereo reception	Incorrect adjustment	1. Muting coil, T04 out of adjustment 2. Muting, Indicator volume, VR03 out of adjustment 3. Free-run frequency adjust. Volume, VR04 out of adjustment 4. Separation volume, VR05 out of adjustment 5. Defective TR08 on F-2549
10) Troubles on Muting indicator circuit	Muting inoperative	1. Defective TR05~TR07 on F-2549 2. T04, VR03 on F-2549 out of adjustment 3. TR10, TR11 opens
11) Stereo indicator does not light up	Indicator circuit inoperative	1. Defective TR04, TR05 on F-2549 2. T04, VR03 on F-2549 out of adjustment 3. TR09 on F-2549 opens 4. Stereo indicator lamp, PL707 opens

6-2. F-2547 Protector Circuit Board (Stock No. 7593111)

Conductor Side

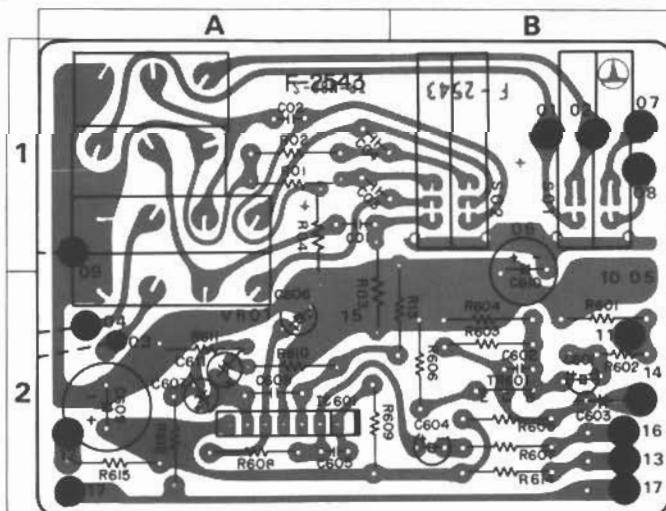


Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position		
TR01	0305951, 3	25C945 (Q, P, K)	1 A	D13, 14	0310970	1N40P	Diode	2 B	R03	0107223	22kΩ	1 A	
	0306131, 3	25C1364 (6, 7, 8)			0311060	1N40 P			R04, 05	0107473	47kΩ	1 A	
TR02	0305951, 3	25C945 (Q, P, K)	1 A	LD01	0319040	GL-40R8 L E D			R06, 07	0107432	3.3kΩ	1, 2 A	
	0306131, 3	25C1364 (6, 7, 8)			C01	0513330			33μF 25V E.C.	R08	0107152	1.5kΩ	1, 2 A
TR03	0305951, 3	25C945 (Q, P, K)	2 B		C02	0514221	220μF 35V E.C.	2 A	R09, 10	0107224	220kΩ	1/4 W C.R.	2 B
	0306131, 3	25C1364 (6, 7, 8)			C03	0510471	470μF 6.3V E.C.		R11	0107152	1.5kΩ	1/4 W C.R.	1 B, 2 B
TR04	0305951, 3	25C945 (Q, P, K)	2 B		C04	0515109	1μF 50V E.C.	1 A	R12	0107152	1.5kΩ	1/4 W C.R.	2 B
	0306131, 3	25C1364 (6, 7, 8)			C05	0530470	47μF 6.3V E.C.		R13, 14	0201100	10Ω	1W M.R.	2 A
D01	0310340	1001	1 A	C06	0515109	1μF 50V E.C.	1 A	R15, 16	0201101	100Ω	1W M.R.	2 A, 1, 2 A	
D02	0310340	1001	2 A	C07	0515109	1μF 50V E.C.	1 A	R17, 18	0155221	220Ω	5W C.C.	1, 2 B	
D03	0310340	1001	1 A	C08	0601108	0.1μF	50V E.C.	2 B	R19, 20	0133100	10Ω	3W C.C.	2 B
D04	0310330, 1	1N40	1 A	C09	0601108	0.1μF	50V M.C.	2 A	R21, 22	0107180	18Ω	1/4 W C.R.	2 B, 1 A, B
D05	0310330, 1	1N40	1 A	C10	0601108	0.1μF		1, 2 A	R23, 24	0107102	1kΩ	1/4 W C.R.	2 B
D06	0310330, 1	1N40	1 A	C11	0601108	0.1μF			RL01	1150101	Relay	2 A	
D07	0310330, 1	1N40	1 A	C12	0535109	1μF 50V E.C.	1 B			1150280	Relay		
D08, 09	0310970	1N40P	2 B	R01	0107104	100kΩ	1/4 W C.R.	1 A	VR01, 02	1035110	4.7kΩ B	2 B	
D11, 12	0311160	152473D	2 B		R02	0107100	10Ω		1/4 W C.R.	1 A	S01	1102650	Rotary Switch
	0311180	151588											

6-3. F-2543 Tone Control Circuit Board (Stock No. 7561171)

Conductor Side



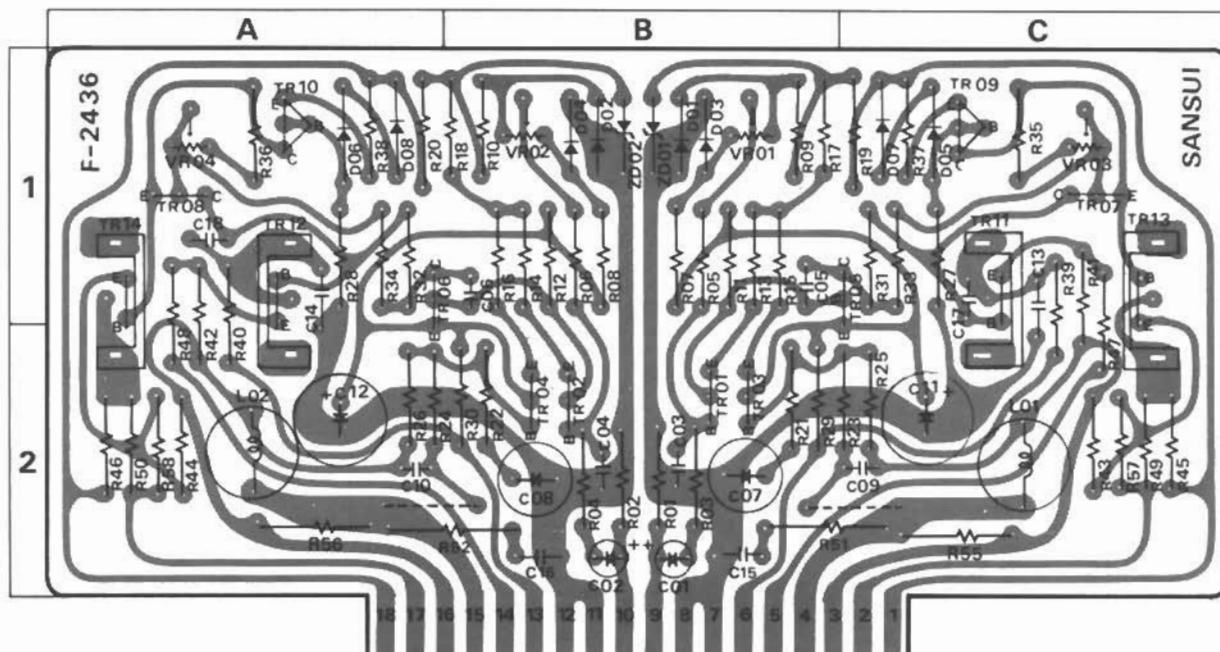
Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01	0306070-2	25C1313 (F, G, H) Transistor		C01, 02	0620471	470pF 50V P.C.	1 A	VR01	1060320, 1	250kΩ BX2	1, 2 A
				C03, 04	0600277	0.027μF 50V M.C.	1 A				
IC01	0360190	BA312 IC	2 A	C01	0600687	0.068μF 50V M.C.	2 B	S01	1171120	Lever Switch	1 B

Parts No.	Stock No.	Description	Position
C002	0657330	33pF 50V C.C.	2 B
C003	0519105	2.2μF 50V E.C.	2 B
C004	0519105	2.2μF 50V E.C.	2 B
C005	0657330	33pF 50V C.C.	2 A
C006	0530470	47μF 6.3V E.C.	2, 1
C007	0519101	1μF 50V E.C.	2 A
C008	0657331	330pF 50V C.C.	2 A
C009	0515101	100μF 50V E.C.	2 A
C010	0510471	470μF 6.3V E.C.	1, 2 B
C011, 12	0519106	4.7μF 50V E.C.	2 A
R01, 02	0107183	18kΩ	1 A
R03, 04	0107824	820kΩ	1, 2A, 1A
R001	0107563	56kΩ	2 B
R002	0106222	2.2kΩ	2 B
R003	0107564	560kΩ	1/4W C.R.
R004	0107563	56kΩ	2 B
R005	0107333	33kΩ	2 B
R006	0107561	560Ω	2 B
R007	0107222	2.2kΩ	2 B
R008	0107104	100kΩ	2 A
R009	0107154	150kΩ	2 A
R010	0107223	22kΩ	2 A
R011	0107224	220kΩ	1/4W C.R.
R012	0107271	270Ω	2 A
R013	0107221	220Ω	2 B
R014	0107181	180Ω	2 B
R015	0107391	390Ω	1/4W C.R.

6-4. F-2436 Driver Circuit Board (Stock No. 7571201)

Conductor Side

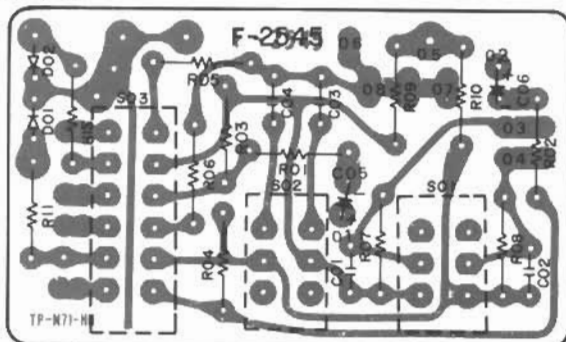


Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	
TR01, 02	0306271	2SC1708 (G)	Transistor	C03, 04	0657101	100pF 50V C.C.	2 B	R25, 26	0107124	120kΩ	2 D, 2 A	
TR03, 04	0306271	2SC1708 (G)		2 B	C05, 06	0657150	15pF 50V C.C.	1 B	R27, 28	0107333	33kΩ	1 C, 1 A
TR05, 06	0306700, 1	2SA818 (O, Y)		1, 2 C, 1, 2 A	C07, 08	0530101	100-μF 6.3V E.C.	2 B	R29, 30	0191391	390Ω	2 B, 2 A
	0306801, 2	2SA849 (B, V)			C11, 12	0519903	100-μF 80V E.C.	2 C, 2 A	R31, 32	0107390	39Ω	1 C, 1 A
TR07, 08	0305871, 2	2SC984 (B, C)		1 C, 1 A	C13, 14	0651333	33000pF 50V C.C.	1, 2 C, 1, 2 A	R33, 34	0107332	33kΩ	1 C, 1 A
TR09, 10	0306260, 1	2SC1628 (O, Y)	1 C, 1 A	C15, 16	0601108	0.1-μF 50V M.C.	2 B	R35, 36	0107152	15kΩ	1 C, 1 A	
	0306411, 2	2SC1720 (B, V)			C17, 18	0657101	100pF 50V C.C.	1 C, 1 A	R37, 38	0107181	180Ω	1 C, 2 A
TR11, 12	0308531, 2	2SD381 (2) (M, L)							R39, 40	0191100	10Ω	1, 2 C, 1, 2 A
TR13, 14	0303371, 2	2SB536 (2) (M, L)	1, 2 C, 1, 2 A	R01, 02	0107124	120kΩ	2 B	R41, 42	0107151	150Ω	1, 2 C, 1, 2 A	
				R03, 04	0107103	10kΩ	2 B	R43, 44	0191220	22Ω	2 C, 2 A	
D01, 02	0311160	1S2473D	Diode	R05, 06	0107124	120kΩ	1 B	R45, 46	0107151	150Ω	2 C, 2 A	
	0311180	1S1588		1 B	R07, 08	0107683	68kΩ	1 B	R47, 48	0191479	4.7Ω	1, 2 C, 1, 2 A
D03, 04	0311160	1S2473D		1 B	R09, 10	0107223	22kΩ	1 B	R49, 50	0191479	4.7Ω	2 C, 2 A
	0311180	1S1588		R11, 12	0107102	1kΩ	1 B	R51, 52	0153100	10Ω	2 C, 2 A	
D05, 06	0340120	VD1212	Variistor	R13, 14	0107220	22Ω	1 B	R501, 02	0107183	18kΩ	1 C, 1 A	
	0315850	EQA01-09	Zener diode	R15, 16	0107220	22Ω	1 B					
ZD01, 02	0315860	EQA01-09R		1 B	R17, 18	0107332	33kΩ	1 B	VR01, 02	1035350	4.7kΩ(B) DC OV Adjust Volume	1 B
	0315870	EQA01-09S			R19, 20	0201822	82kΩ	1 W C.R.		VR03, 04	1035310	1kΩ(B) Bias Current Adjust Volume
C01, 02	0519103	0.47-μF 50V E.C.	2 B	R21, 22	0107182	18kΩ	2 B					
				R23, 24	0107274	270kΩ	2 D, 2 A					

6-5. F-2545 Filter & Muting Circuit Board (Stock No. 7593091)

Conductor Side

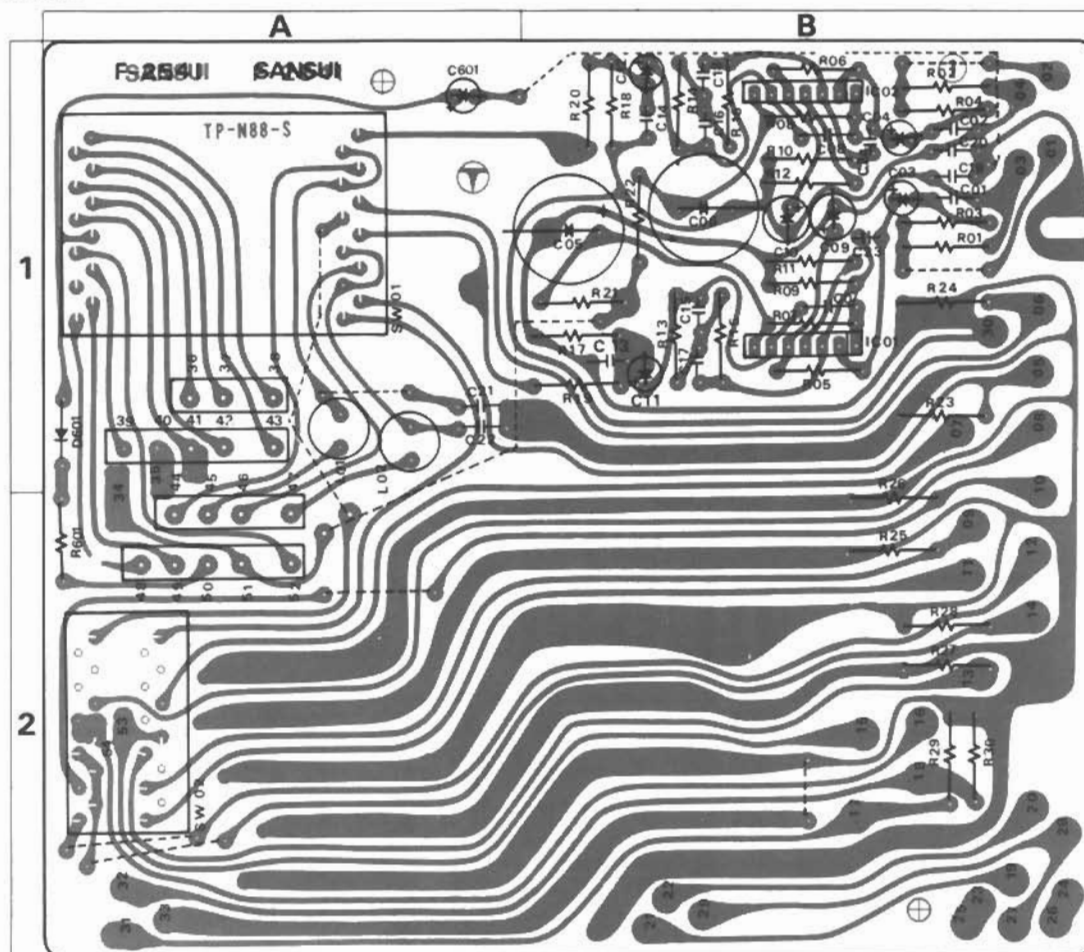


Parts List

Parts No.	Stock No.	Description
D01, 02	0311160	1S2473D
	0311180	1S1588
D03, 04	0310970	1N60P
	0311060	1N60 P
C01, 02	0600187	0.018-μF 50V M.C.
C03, 04	0600187	0.018-μF 50V M.C.
C05, 06	0519105	2.2-μF 50V E.C.
R01, 02	0107332	33kΩ
R03, 04	0107273	27kΩ
R05, 06	0107332	33kΩ
R07, 08	0107824	820kΩ
R09, 10	0107153	15kΩ
S01	1131170	Push Switch

6-6. F-2541 Equalizer Circuit Board (Stock No. 7550731)

Conductor Side

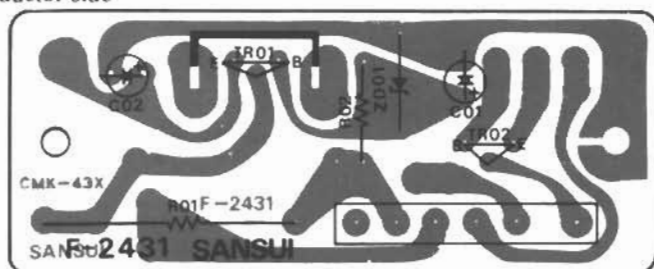


Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
IC01, 02	0360190	BA312 IC	1 B	C19, 20	0657473	47000pF 50V C.C.	1 B	R19, 20	0107221	220Ω 1/4W C.R.	1 B
D001	0311160	1524730 Diode	1 A	C21, 22	0600826	0.0082μF 50V M.C.	1 A	R21, 22	0107681	680Ω 1/4W C.R.	1 B
	0311180	151588		C23, 24	0657220	22pF 50V C.C.	1 B	R23, 24	0107224	220Ω 1/4W C.R.	1 B
C01, 02	0657470	47pF 50V C.C.	1 B	C001	0515109	1μF 50V E.C.	1 A	R25, 26	0107224	220Ω 1/4W C.R.	2 B
C03, 04	0519102	3.3μF 50V E.C.	1 B	C001	0657473	47000pF 50V C.C.		R27, 28	0107224	220Ω 1/4W C.R.	2 B
C05, 06	0573339	3.3μF 35V T.C.	1 B	R01, 02	0107563	56Ω 1/4W C.R.	1 B	R29, 30	0107224	220Ω 1/4W C.R.	2 B
C07, 08	0515471	470pF 50V E.C.	1 B	R03, 04	0107472	4.7kΩ 1/4W C.R.	1 B	R001	0107223	22kΩ 1/4W C.R.	2 B
C09, 10	0657470	47pF 50V C.C.	1 B	R05, 06	0107823	82Ω 1/4W C.R.	1 B				
C11, 12	0510470	47μF 6.3V E.C.	1 B	R07, 08	0107394	390Ω 1/4W C.R.	1 B	L01, 02	4900090	Inductor	1 A
C13, 14	0519101	1μF 50V E.C.	1 B	R09, 10	0107821	820Ω 1/4W C.R.	1 B	S01	1103550	Rotary Switch	
C15, 16	0573109	1μF 35V T.C.	1 B	R11, 12	0107330	33Ω 1/4W C.R.	1 B	S02	1102660	Rotary Switch	
C17, 18	0657331	330pF 50V C.C.	1 B	R13, 14	0107273	27kΩ 1/4W C.R.	1 B		2410570	5P Pin Assy Type D	
	0600276	0.0027μF 50V M.C.	1 B	R15, 16	0107334	330Ω 1/4W C.R.	1 B		2410580	3P Pin Assy Type D	
	0600107	0.01μF 50V M.C.	1 B	R17, 18	0107224	220Ω 1/4W C.R.	1 B		2410590	4P Pin Assy Type D	

6-7. F-2431 Power Supply Circuit Board (Stock No. 7501301)

Conductor Side

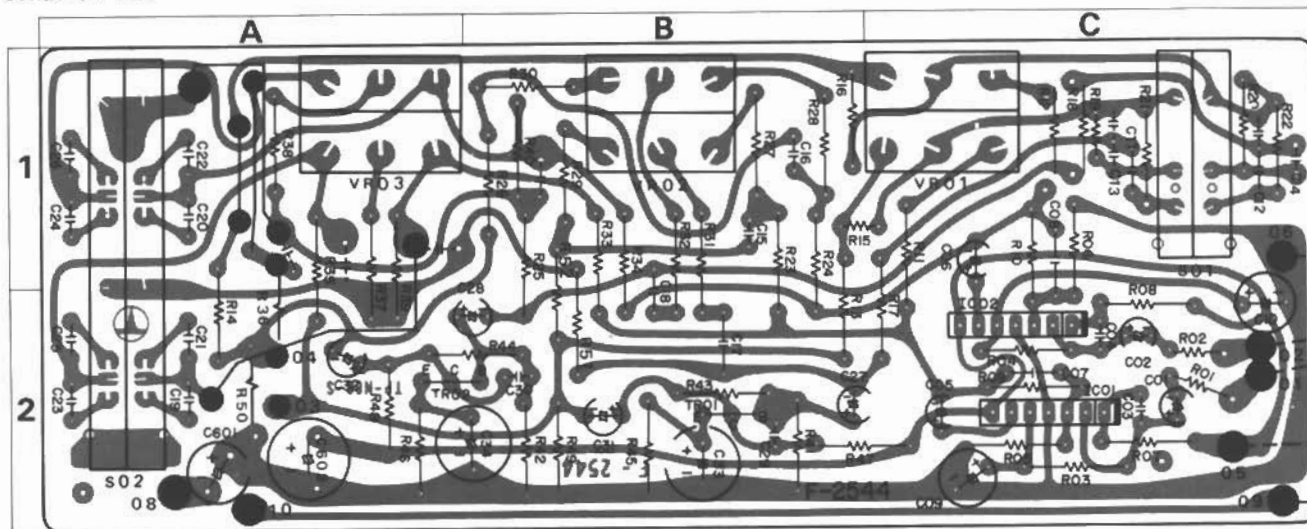


Parts List

Parts No.	Stock No.	Description
TR01	0308390-2	2SD313 (C.D.E) Transistor
D01	0310340	10D1 Diode
ZD01	0315970	EQA01-13R Diode
C01	0512221	220μF 16V E.C.
C02	0512101	100μF 16V E.C.
C03	0511471	470μF 10V E.C.
R01	0183391	390Ω 3W C.R.
R02	0107472	4.7kΩ 1/4W C.R.
R03	0183391	390Ω 3W C.R.

6-8. F-2544 Tone Control Circuit Board (Stock No. 7561191 MODEL A) (Stock No. 7561181 MODEL B)

Conductor Side



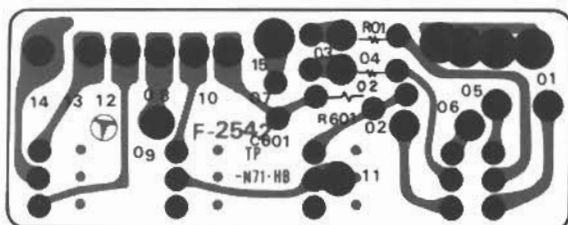
Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01, 02	0306070-2	2SC1313 (F, G, H) Transistor	2 B, 1A, B	R01, 02	0106222	2.2k Ω	2 C	Rev. 50	0107224	220k Ω	2 B, 2 A
IC01, 02	0360190	BA312 IC	2 C	R03, 04	0107154	150k Ω	2 C	Rst. 52	0107273	27k Ω	1, 2 B
C01, 02	0519101	1 μ F 50V E.C.	2 C	R05, 06	0107102	1k Ω	2 C, 1 C	VR01	1010930, 1	100k Ω B	1 C
C03, 04	0657330	33pF 50V C.C.	2 C	R07, 08	0107474	470k Ω	1 C, 1, 2A	VR02	1010930, 1	100k Ω B	1 B
C05, 06	0519001	10 μ F 25V E.C.	1 C	R13, 14	0107562	5.6k Ω	1 B, 1 C	VR03	1010930, 1	100k Ω B	1 A
C07, 08	0657101	100pF 50V C.C.	1 C	R15	0106274	270k Ω	1 B	*MODEL A Only			
C09, 10	0510470	47 μ F 6.3V E.C.	1, 2 C	R16	0107274	270k Ω	1 C	C11, 12	0600106	0.001 μ F 50V M.C.	1 C
C13, 14	0600186	0.0018 μ F	1 C	R17, 18	0107222	2.2k Ω	1, 2 C, 1 C	C21, 22	0600127	0.012 μ F 50V M.C.	2 A, 1 A
C15, 16	0600336	0.0033 μ F	1 B	R23, 24	0107682	6.8k Ω	1, 2 B	C25, 26	0600127	0.012 μ F 50V M.C.	2 A, 1 A
C17, 18	0600476	0.0047 μ F 50V M.C.	1, 2 B	R25, 26	0107682	6.8k Ω	1 B	Rev. 10	0107123	12k Ω $\frac{1}{4}$ W C.R.	2 C, 1, 2 C
C19, 20	0600337	0.0033 μ F	1 A	R27, 28	0107562	5.6k Ω	1 B	R19	0106824	820k Ω $\frac{1}{4}$ W C.R.	1 C
C23, 24	0600337	0.0033 μ F	1 A	R29, 30	0107562	5.6k Ω	1 B	R20	0107824	820k Ω $\frac{1}{4}$ W C.R.	1 C
C27, 28	0519105	2.2 μ F 50V E.C.	2 A, B	R31, 32	0107223	22k Ω	1, 2 B	R21, 22	0107824	820k Ω $\frac{1}{4}$ W C.R.	1 C
C29, 30	0657330	33pF 50V C.C.	2 B	R33, 34	0107153	15k Ω	1, 2 A	S01	1171240	Lever Switch	1 C
C31, 32	0519001	10 μ F 25V E.C.	2 A	R35, 36	0107153	15k Ω	1, 2A, 1A	S02	1171220	Lever Switch	1, 2 A
C33, 34	0510221	220 μ F 6.3V E.C.	2 A, B	R37, 38	0107222	2.2k Ω	1, 2A, 1A	*MODEL B Only			
C401	0510471	470 μ F 6.3V E.C.	2 A	R39, 40	0107224	220k Ω	1, 2A, 1B	R9, 10	0107103	10k Ω $\frac{1}{4}$ W C.R.	2 C, 1, 2 C
C402	0514221	220 μ F 35V E.C.	2 A	R41, 42	0107124	120k Ω	2 B				
				R43, 44	0107474	470k Ω	2 B, 2A, B				
				R45, 46	0107331	330 Ω	2 B, 2 A				
				R47, 48	0107562	5.6k Ω	2B, C, 2A				

Note: In parts list above, there are two model numbers as model A and B.
Regarding name of model A, B, please refer to "Notes" indicated on page 1.

6-9. F-2542 Accessory Switch Circuit Board (Stock No. 7593071)

Conductor Side

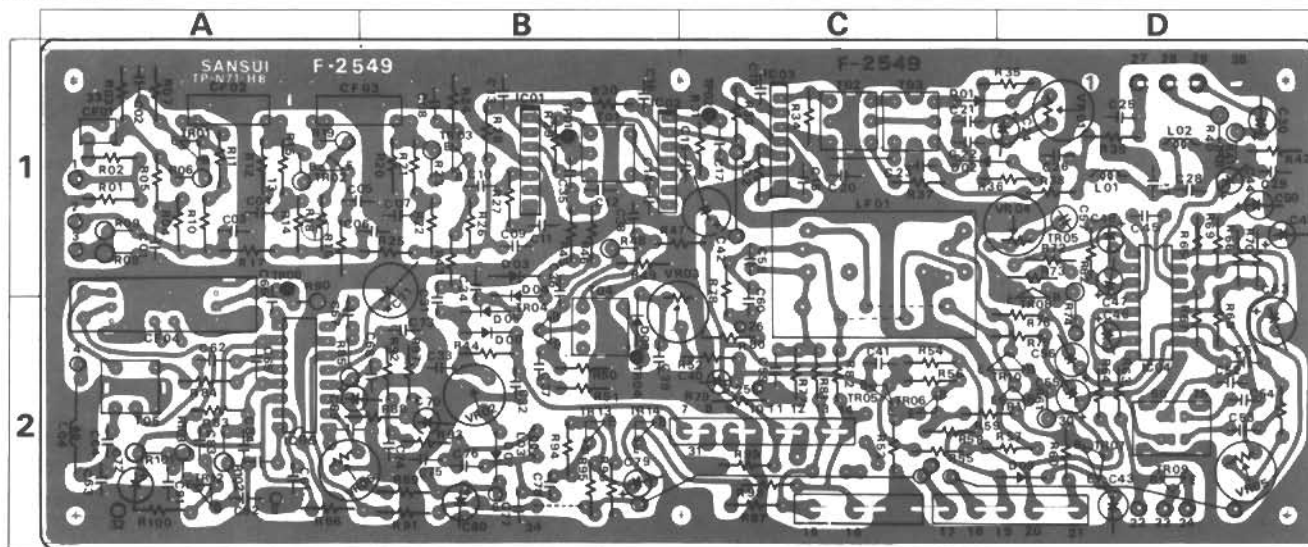


Parts List

Parts No.	Stock No.	Description
C01	0512330	33 μ F 16V E.C.
R01, 02	0107822	8.2k Ω
R03	0107102	1k Ω
R04	0107681	680 Ω
S01	1131160	Push Switch
S02	1171120	Lever Switch
	2410700	6P Pin Assy Type F

6-10. F-2549 FM, AM Tuner Circuit Board (Stock No. 7593171)

Conductor Side



Parts List

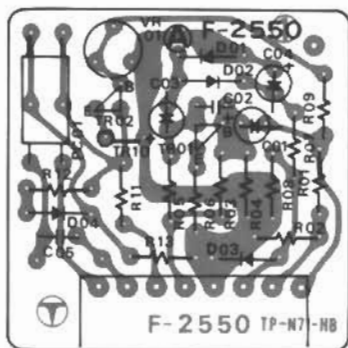
Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01	0306113	2SC738 (D)	1A	C24	0512100	10 μ F 16V E.C.	1D	R07	0113122	1.2k Ω	1A
TR02	0306113	2SC738 (D)	1A	C25	0657223	22000pF 50V C.C.	1D	R08	0106333	33k Ω	1A
TR03	0306112	2SC738 (C)	1B	C26	0620181	180pF 50V P.C.	1D	R09	0106104	100k Ω	1A
TR04	0306112	2SC738 (C, D)	2B	C27	0620331	330pF 50V P.C.	1D	R10	0113331	330k Ω	1A
TR05	0305731	2SC711 (E, F)	2C	C28	0620101	100pF 50V P.C.	1D	R11	0113101	100k Ω	1A
TR06	0305731	2SC711 (E, F)	2C	C29	0620151	150pF 50V P.C.	1D	R12	0113332	33k Ω	1A
TR07	0300281	2SA628 (D, E)	2D	C31	0657221	220pF	1, 2B	R13	0113471	470k Ω	1A
TR08	0305731	2SC711 (E)	1, 2D	C32	0657221	220pF	2B	R14	0113102	10k Ω	1A
TR09	0300221	2SA562 (Y)	2D	C33	0657223	22000pF	2B	R15	0106151	150k Ω	1A
TR10, 11	0305371	2SC733 (Y)	2D	C34	0657221	220pF	1, 2B	R16	0113122	1.2k Ω	1A
	0305641	2SC735 (Y)	2D	C35	0657102	1000pF 50V C.C.	1B	R17	0113479	4.7k Ω	1A
TR12	0300281	2SA628 (D)	2A	C36	0657102	1000pF	1, 2B	R18	0113331	300k Ω	1A
TR13	0306091	2SC1312K (G)	2B	C37	0657223	22000pF	2B	R19	0106101	100k Ω	1A
TR14	0305371	2SC733 (Y)	2B	C38	0657223	22000pF	1B	R20	0113222	2.2k Ω	1B
				C39	0657101	100pF	2B	R21	0113471	470k Ω	1B
IC01	0360120	μ PC555H	1B	C40	0519101	1 μ F 50V E.C.	2C	R22	0113562	5.6k Ω	1B
IC02	0360120	μ PC555H	1B	C41	0657221	220pF 50V C.C.	2C	R23	0106221	220k Ω	1B
IC03	0360120	μ PC555H	1C	C42	0512470	47 μ F 16V E.C.	1C	R24	0113391	390k Ω	1B
IC04	0360320	HA1196	1, 2D	C43	0573688	0.68 μ F 35V T.C.	1D	R25	0113476	4.7k Ω	1B
IC05	0360150	HA1151	2A	C44	0600477	0.04 μ F 50V M.C.	1D	R26	0113102	10k Ω	1B
D01	0311040	1N40-P	2C, B	C45	0573228	0.22 μ F 35V T.C.	2D	R27	0113102	10k Ω	1B
D02	0311040	1N40-P	2C, B	C46	0519104	1.5 μ F 50V E.C.	1D	R28	0113479	4.7k Ω	1B
D03	0310330, 1	1N40	1B	C48	0519102	3.3 μ F 50V E.C.	1D	R29	0113103	10k Ω	1B
D04	0310330, 1	1N40	1, 2B	C49, 50	0512100	10 μ F 16V E.C.	1D	R30	0113479	4.7k Ω	1B
D05	0310330, 1	1N40	2B	C51, 52	0600126	0.0012 μ F 50V M.C.	2D	R31	0113102	10k Ω	1C
D06	0310330, 1	1N40	2B	C53, 54	0620511	510pF 50V P.C.	2D	R32	0113102	10k Ω	1C
D07	0310330, 1	1N40	2B	C55, 56	0519101	1 μ F 50V E.C.	2D	R33	0113479	4.7k Ω	1C
D08	0310330, 1	1N40	2B	C57	0629005	360pF 50V P.C.	1D	R34	0113682	6.8k Ω	1C
D09	0311160	152473D	2B	C59, 60	0600186	0.0018 μ F 50V M.C.	1, 2C	R35	0113102	10k Ω	1C, D
	0311180	151583		C62	0657103	10000pF 50V C.C.	2A	R36	0113102	10k Ω	1C, D
D10	0311160	152473D		C63	0649400	15pF 50V C.C.	2D	R37	0113101	100k Ω	1C
	0311180	151588		C64	0620361	360pF 50V P.C.	2A	R38	0113471	470k Ω	1D
D11	0311160	152473D		C66	0657103	10000pF	1, 2A	R39	0113153	15k Ω	1D
	0311180	151588		C67	0657102	1000pF	2A	R42	0113103	10k Ω	1D
	0311160	152473D		C68	0657102	1000pF	2B	R43	0113102	10k Ω	1B
	0311180	151588		C69	0515339	3.3 μ F 50V	2A, B	R44	0113222	2.2k Ω	2B
C01	0657223	22000pF	1A	C70	0512100	10 μ F 16V	2B	R45	0113102	10k Ω	1B
C02	0657223	22000pF	1A	C71	0512101	100 μ F 16V	1, 2B	R46	0113332	33k Ω	1B
C03	0657223	22000pF	1A	C72	0512470	47 μ F 16V	2A	R47	0113222	2.2k Ω	1B, C
C04	0657223	22000pF	1A	C73	0600337	0.033 μ F	2B	R48	0106183	18k Ω	1B
C05	0657223	22000pF	1A, B	C74	0600337	0.033 μ F	2B	R49	0113103	10k Ω	1B
C06	0657223	22000pF	1A, B	C75	0600107	0.01 μ F	2B	R50	0113102	10k Ω	2B
C07	0657223	22000pF	1B	C76	0600107	0.01 μ F	2B	R51	0113820	82k Ω	2B
C08	0657223	22000pF	1B	C77	0600227	0.022 μ F	2B	R52	0113683	68k Ω	2C
C09	0657223	22000pF	1B	C78	0600157	0.015 μ F	2B	R53	0113820	82k Ω	2C
C10	0657102	1000pF	1B	C79	0519101	1 μ F 50V E.C.	2B	R54	0113473	4.7k Ω	2C
C11	0657223	22000pF	1B	C80	0510470	47 μ F 6.3V E.C.	2B	R56	0113104	100k Ω	2C
C12	0657223	22000pF	1B	C81	0657223	22000pF	2A	R57	0113104	100k Ω	2C, D
C13	0657223	22000pF	1B	C82	0657102	1000pF	2A	R58	0113562	5.6k Ω	2C
C14	0657223	22000pF	1B	C83	0657331	330pF	2A	R59	0113333	33k Ω	2C, D
C15	0657223	22000pF	1C	C84	0657223	22000pF	2A	R61	0106472	4.7k Ω	2D
C16	0657223	22000pF	1B	C85	0512470	47 μ F 16V E.C.	2A	R62	0113102	10k Ω	1D
C17	0657102	1000pF	1C					R63	0113221	220k Ω	2D
C18	0657223	22000pF	1C	R01	0113102	10k Ω	1A	R64	0113104	100k Ω	2D
C19	0657223	22000pF	1C	R02	0113101	100k Ω	1A	R65, 66	0113273	27k Ω	1, 2D
C20	0657223	22000pF	1C	R03	0113332	33k Ω	1A	R67, 68	0113473	4.7k Ω	1D
C21	0657151	150pF	1C	R04	0113102	10k Ω	1A	R69, 70	0113682	6.8k Ω	1D
C22	0657151	150pF	1C	R05	0113471	470k Ω	1A	R71	0113103	10k Ω	2D
C23	0657151	150pF	1C	R06	0106151	150k Ω	1A	R72	0107184	180k Ω	1D

Parts No.	Stock No.	Description	Position
R73	0113151	150Ω 1/4 W S.R.	1 D
R74	0106104	180kΩ 1/4 W C.R.	1, 2 D
R75, 76	0113332	3.3kΩ 2 D	
R77, 78	0113333	33kΩ 1, 2 C	
R79, 80	0113223	22kΩ 2 C	
R81, 82	0113182	1.8kΩ 1/4 W S.R.	2 C
R83	0113392	3.9kΩ 2 A	
R84	0113100	10Ω 2 A	
R85	0106331	330Ω 1/4 W C.R.	2 A
R86	0113151	150Ω 2 A	
R87	0113103	10kΩ 1/4 W S.R.	2 B
R88	0113272	2.7kΩ 2 B	
R89	0113152	1.5kΩ 1/4 W S.R.	2 B
R90	0106562	5.6kΩ 1/4 W C.R.	2 A
R91	0113101	100Ω 2 B	
R92	0113182	1.8kΩ 2 B	
R93	0113102	1.0kΩ 1/4 W S.R.	2 B
R94	0113224	220kΩ 2 B	
R95	0113561	560Ω 2 B	

Parts No.	Stock No.	Description	Position
R96	0113221	220Ω 2 B	
R97, 98	0113332	3.3kΩ 1/4 W S.R.	2 C
R100	0113332	3.3kΩ 2 A	
R101	0106152	1.5kΩ 1/4 W 2 A	
R102	0106473	47kΩ 2 A	
R103	0106390	39Ω 2 A	
R104	0106123	12kΩ 1/4 W C.R.	
R901	0106473	47kΩ 2 A	
R902	0106153	15kΩ 2 A	
R903	0107273	27kΩ 2 A	
L01	4900250	Inductor 1 D	
L02	4900240	Inductor 1 D	
L03	4900220	Inductor 2 B	
L04	4290011	Choke Coil 2 A	
T01	4235860	FM IF Coil 1 B	
T02	4235750	FM IF Coil 1 C	
T03	4235760	FM IF Coil 1 C	
T04	4235940	FM IF Coil 2 B	

Parts No.	Stock No.	Description	Position
T05	4220550	OSC Coil 2 A	
CF01	0910150	Ceramic Filter 1 A	
CF02	0910330	Low Pass Filter 1 A	
CF03	0910330	Low Pass Filter 1 A, B	
CF04	0910310	Ceramic Filter 1, 2 A	
LF01	0910210	Low Pass Filter 1, 2 C	
VR01	1035150	22kΩ B 1 D	
VR02	1035170	47kΩ B 2 B	
VR03	1035170	47kΩ B 1 B, C	
VR04	1034250	4.7kΩ B 1 C, D	
VR05	1035210	220kΩ B 2 D	
VR06	1035110	4.7kΩ B 2 A, B	
S01	1110270	Slide Switch	
	2410570	5P Pin Assy Type D	
	2410590	4P Pin Assy Type D	
	2410740	8P Pin Assy Type A	

6-11. F-2550 Multi-Path Circuit Board (Stock No. 7593181)



Parts List

Parts No.	Stock No.	Description
TR01	0305731, 2	25C711 (E, F) Transistor
TR02	0305733	25C711 (G) Transistor
D01	0310330, 1	1N60
D02	0310330, 1	1N60
D03	0310330, 1	1N60
D04	0310330, 1	1N60
PC01	0920060	Photo-cell Lamp
C01	0515109	1μF 50V E.C.
C02	0657101	100pF 50V C.C.
C03	0513479	4.7nF 25V E.C.
C04	0512100	10nF 16V E.C.
C05	0600107	0.01μF 50V M.C.

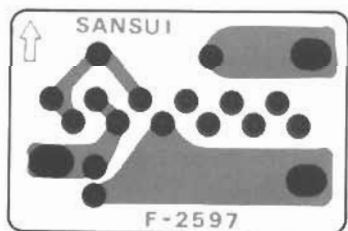
Parts No.	Stock No.	Description
R01	0113473	47kΩ
R02	0113104	100kΩ
R03	0113563	56kΩ
R04	0113103	10kΩ
R05	0113182	1.8kΩ 1/4 W S.R.
R06	0113331	330Ω
R07	0113392	3.9kΩ
R08	0113223	22kΩ
R09	0113153	15kΩ
R10	0113479	4.7kΩ
R11	0113102	1.0kΩ 1/4 W S.R.
R12	0113561	560Ω
R13	0113470	47Ω
VR001	1035190	100kΩ B
	2420300	BP Connector Assy Type A

6-12. F-1470 Lamp Circuit Board (Stock No. 7593151)

Parts List

Parts No.	Stock No.	Description
R01	0191180	181Ω 1/4 W Fuse Resistor
PL01, 04	0420040	7V 320MA

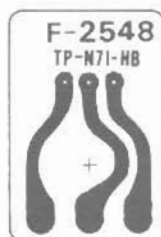
6-13. F-2597 Connector Circuit Board (Stock No. 7593901)



Parts List

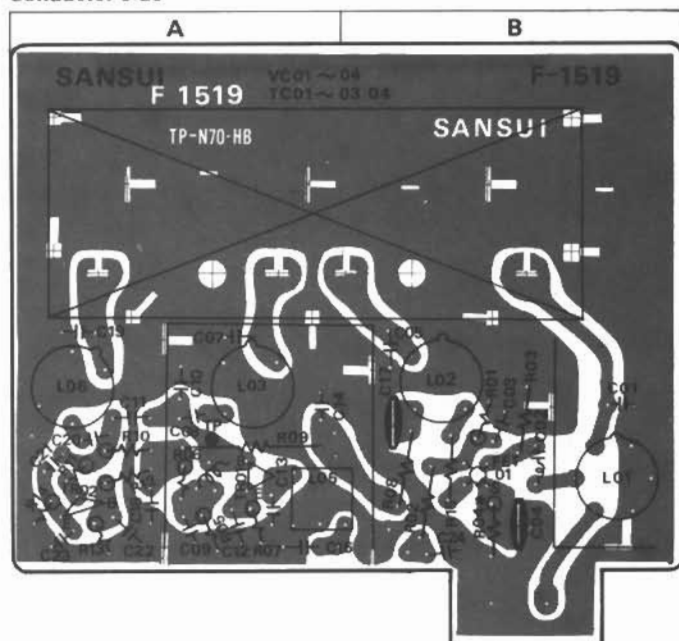
Parts No.	Stock No.	Description
C01	0515109	1μF 50V E.C.
R01	0107472	4.7kΩ 1/4 W C.R.

6-14. F-2548 Protector Connector Circuit Board (Stock No. 7593131)



6-15. F-1519 FM Pack (Stock No. 7510650)

Conductor Side



Parts No.	Stock No.	Description	Position
C01	0669342	5.6pF	B
C02	0657102	1000pF	B
C03	0657223	0.022μF	B
C04	0659015	2200pF	B
C05	0669345	10pF	B
C06	0679023	0.39pF	B
C07	0669345	10pF	A
C08	0669210	10pF	A
C09	0657102	1000pF	A
C10	0661220	22pF	A
C11	0669202	2.2pF	A
C12	0657223	0.022μF	A
C13	0660121	120pF	A
C14	0657223	0.022μF	A
C15	0660331	330pF	A
C16	0659015	2200pF	B
C17	0657223	0.022μF	A
C18	0669375	15pF	A
C19	0657102	1000pF	A
C20	0669209	8.2pF	A
C21	0657223	0.022μF	A
C22	0661220	22pF	A
C23	0669221	22pF	A
C24	0657223	0.022μF	B
R01	0106105	1MΩ 1/4W C.R.(ELR)	B
R02	0113104	100kΩ 1/4W S.R.	B
R03	0113104	100kΩ 1/4W S.R.	B
R04	0106101	100Ω (35K41(1)K)	B
R05	0106680	68Ω (35K41(1)K)	B
R06	0106682	6.8kΩ 1/4W C.R.(ELR)	A
R07	0106123	12kΩ	A
R08	0106392	3.9kΩ	A
R09	0113121	120Ω 1/4W S.R.	B
R10	0113271	270Ω	A
R11	0106392	3.9kΩ	A
R12	0106121	120Ω	A
R13	0106682	6.8kΩ 1/4W C.R.	A
R14	0106222	2.2kΩ	A
R15	0106182	1.8kΩ	A
R16	0113680	68Ω 1/4W S.R.	B
	2260010	Test Pin	

Parts List

Parts No.	Stock No.	Description	Position
TR01	0305800, 1	2SC1047 (A, B)	Transistor A
TR02	0305790, 1	2SC930 (C, D)	Transistor A
FET01	0370131, 2	3SK41 (K, L)	FET B
L01	4200640	Antenna Coil	B
L02	4210330	RF Coil (1)	B
L03	4210220	RF Coil (2)	A

Parts No.	Stock No.	Description	Position
L04	4290110	Choke Coil	A
L05	4235910	IF Coil	A, B
L06	4220430	OSC Coil	A
VC01-04	1220130	FM, AM Variable Capacitor	A, B
TC01-03	1230090	FM OSC Trimmer	A, B

6-16 Figures

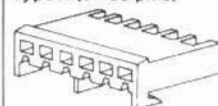
Semiconductor

SEMICONDUCTORS	COMPLETE CIRCUIT BOARD	SEMICONDUCTORS	COMPLETE CIRCUIT BOARD	SEMICONDUCTORS	COMPLETE CIRCUIT BOARD
2SA849 2SC945 2SC1364	F-2436 F-2547	BA312	F-2541 F-2543 F-2544	1N60 1N60P	F-2545 F-2547 F-2549 F-2552
2SC984	F-2436	PC555A	F-2431	10D1	F-2431 F-2547
2SA628 2SC711 2SC7380 2SC1312 2SC1313 2SC1708	F-2436 F-2543 F-2544 F-2549 F-2550	HA1151	F-2549	VD1212	F-2436
2SC1720	F-2436	2SA818 2SC1628	F-2436	1S2473D 1S1588	F-2436 F-2541 F-2545 F-2549
2SB536 2SD313 2SD381	F-2431 F-2436	HA1196	F-2549	EQA01-09 EQA01-09R EQA01-09S EQA01-13R	F-2431 F-2436
2SA562 2SC733 2SC735	F-2549				

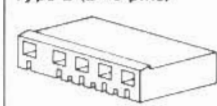
Connector & Pin Ass'y

Connector

Type A (3~10 pins)



Type B (2~6 pins)



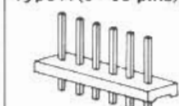
Stock No.

2 Pins	2420250
3 Pins	2420220
4 Pins	2420230
5 Pins	2420210
6 Pins	2420240

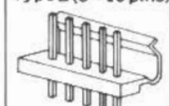
NOTE: Since stock number of female connectors (type B) with wires are not shown in each parts list of Complete circuit board, please refer to the above parts list when ordering the connector.

Pin Ass'y

Type A (3~10 pins)



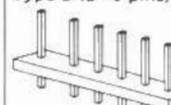
Type B (3~10 pins)



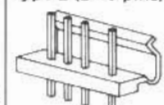
Type C (3~10 pins)



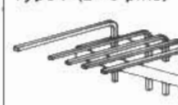
Type D (2~6 pins)

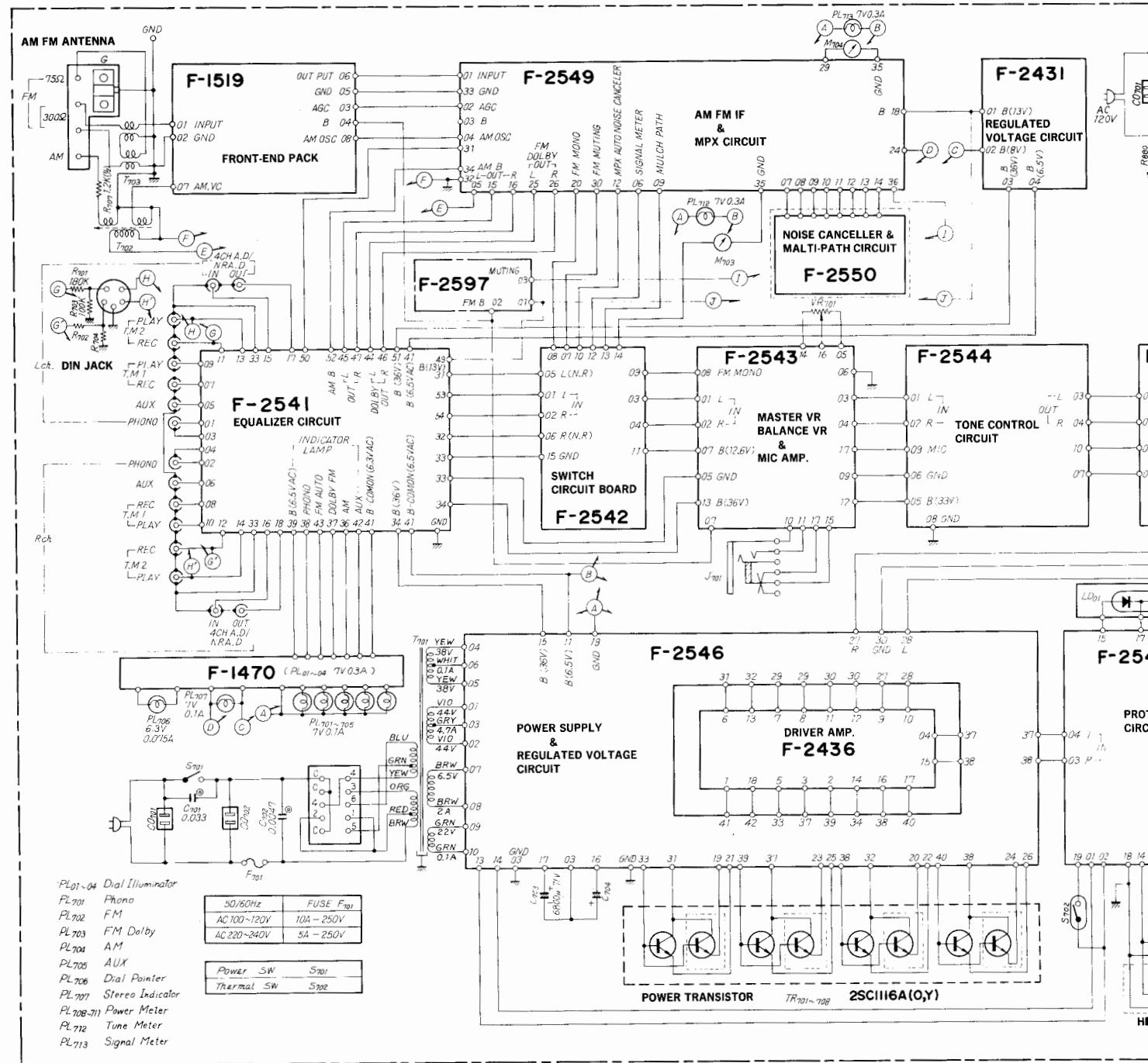


Type E (2~6 pins)



Type F (2~6 pins)





Note: In model ③, the sections in  on schematic diagram above are not installed.

Schematic diagrams in this manual are combined with ones of model ① and ②. Therefore, when you use these diagrams, refer to the Notes shown in diagrams on page 18, 19 or 20.

Regarding name of model **A**, **B**, please refer to "Notes" indicated on page 1.

SELECTOR

F-2541 S01a~f

1. PHONO
2. FM AUTO
3. DOLBY FM AD
4. AM
5. AUX

TAPE PLAY

F-2541 S02a~f

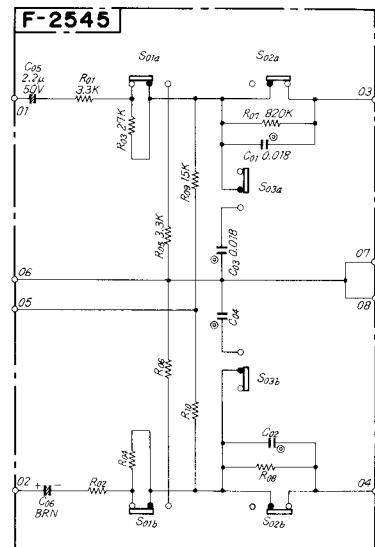
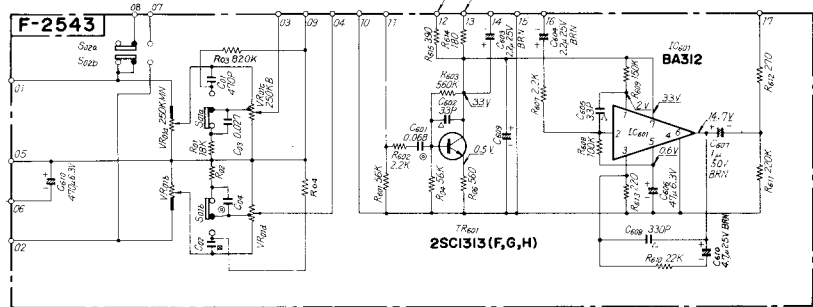
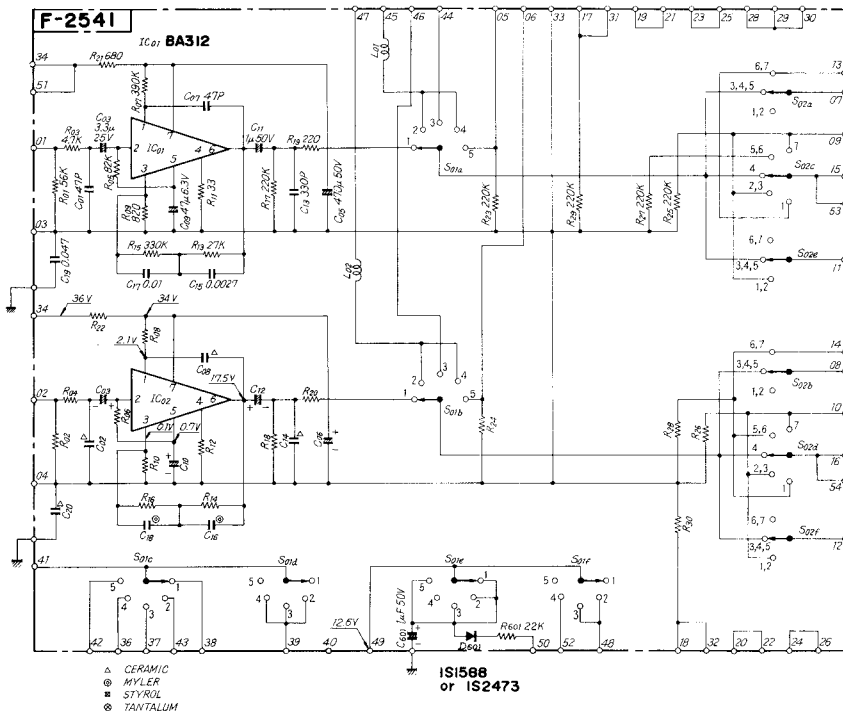
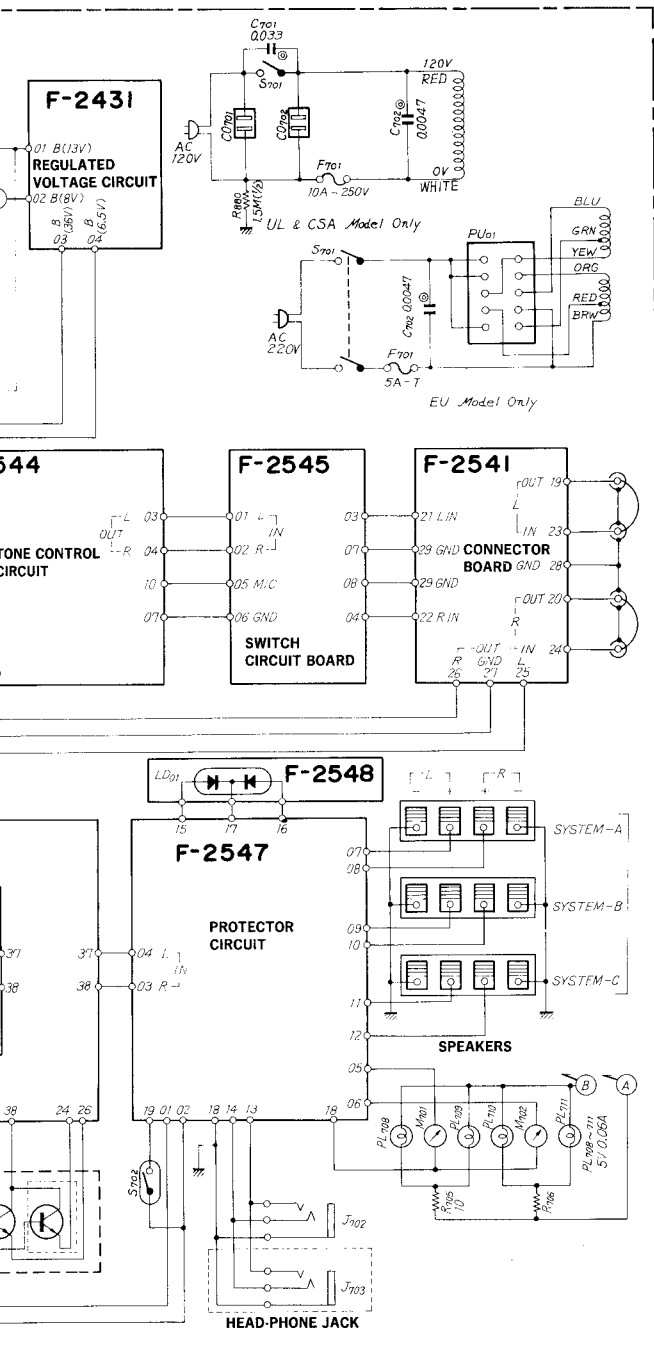
- ```

1. DECK 1 } copy 1-2
2. DECK 2 }
3. DECK 1
4. SOURCE
5. DECK 2
6. DECK 2 } copy 2-1
7. DECK 1 }

```

4-CH A  
FM MU  
MPX N  
CANCE  
METEF  
AUDIC  
LOW F  
HIGH I  
LOUDI  
MODE

\* La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.  
 \* Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.  
 \* Design and specifications subject to change without notice for improvement.

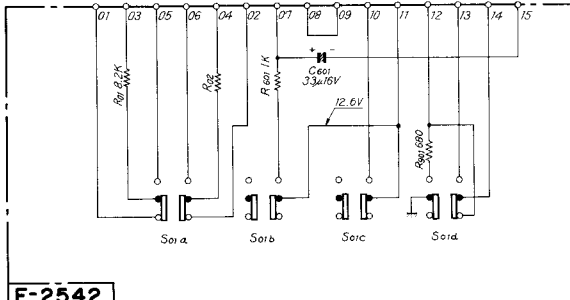


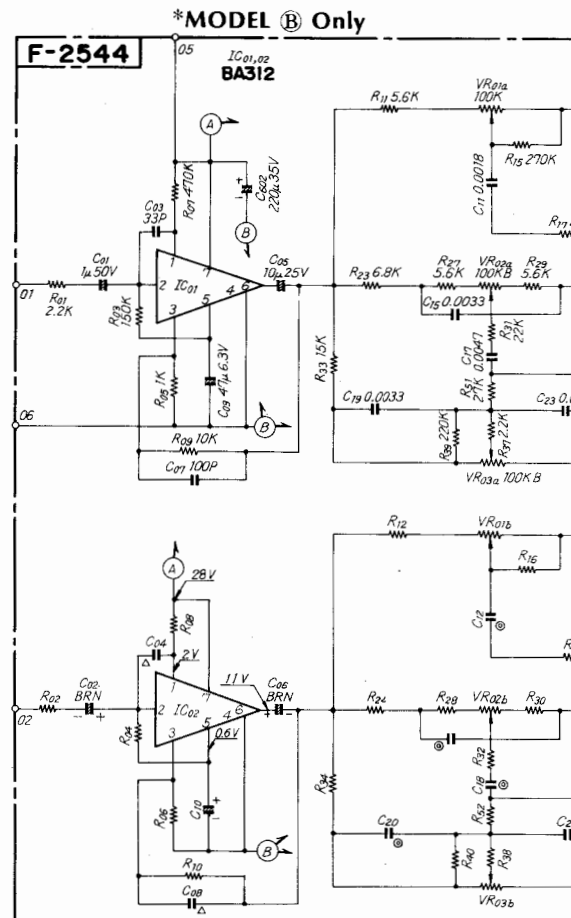
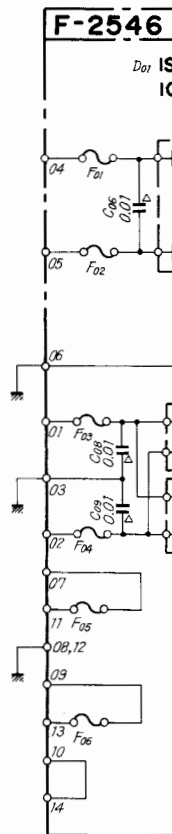
M AD

copy 1-2

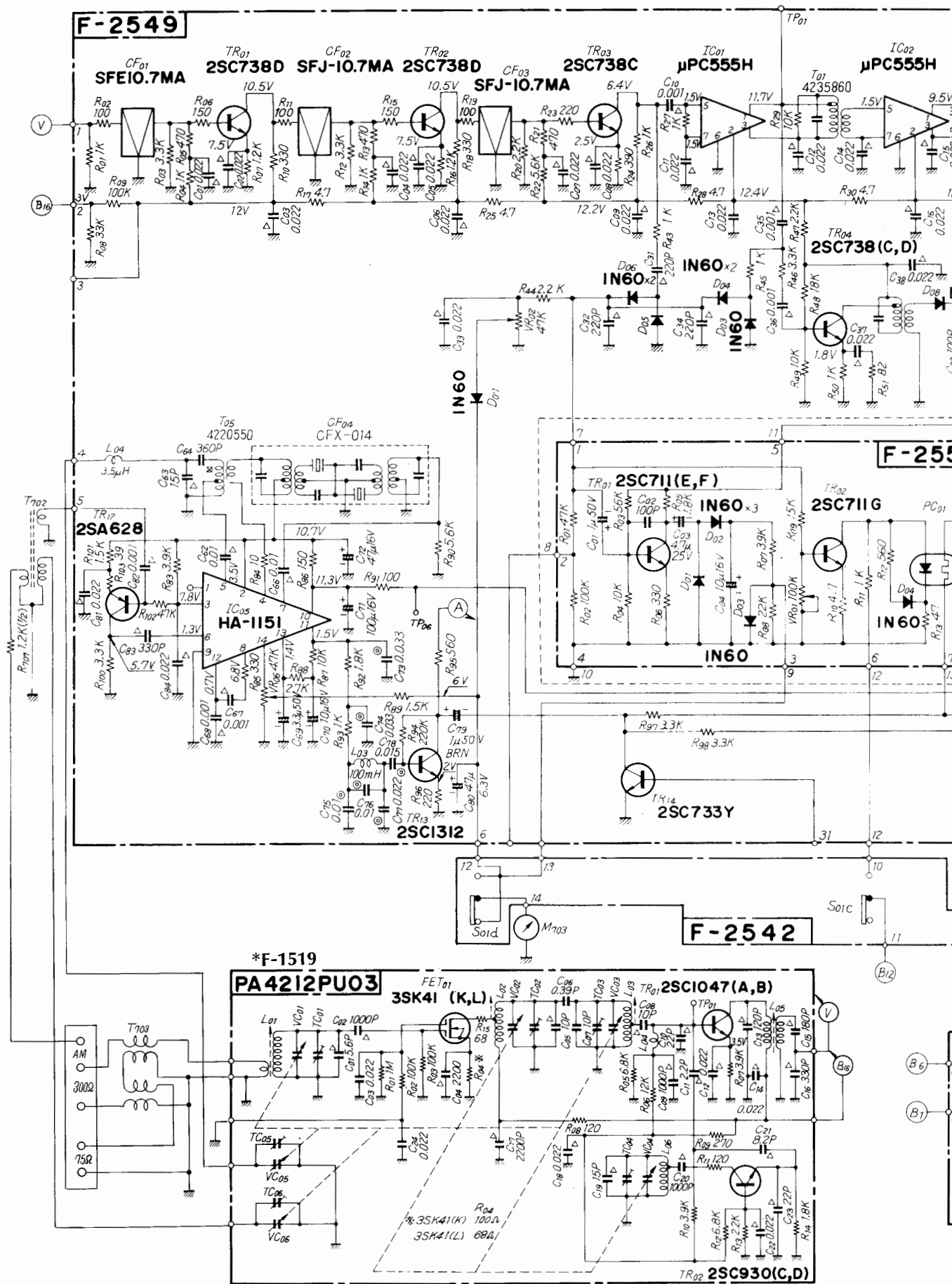
copy 2-1

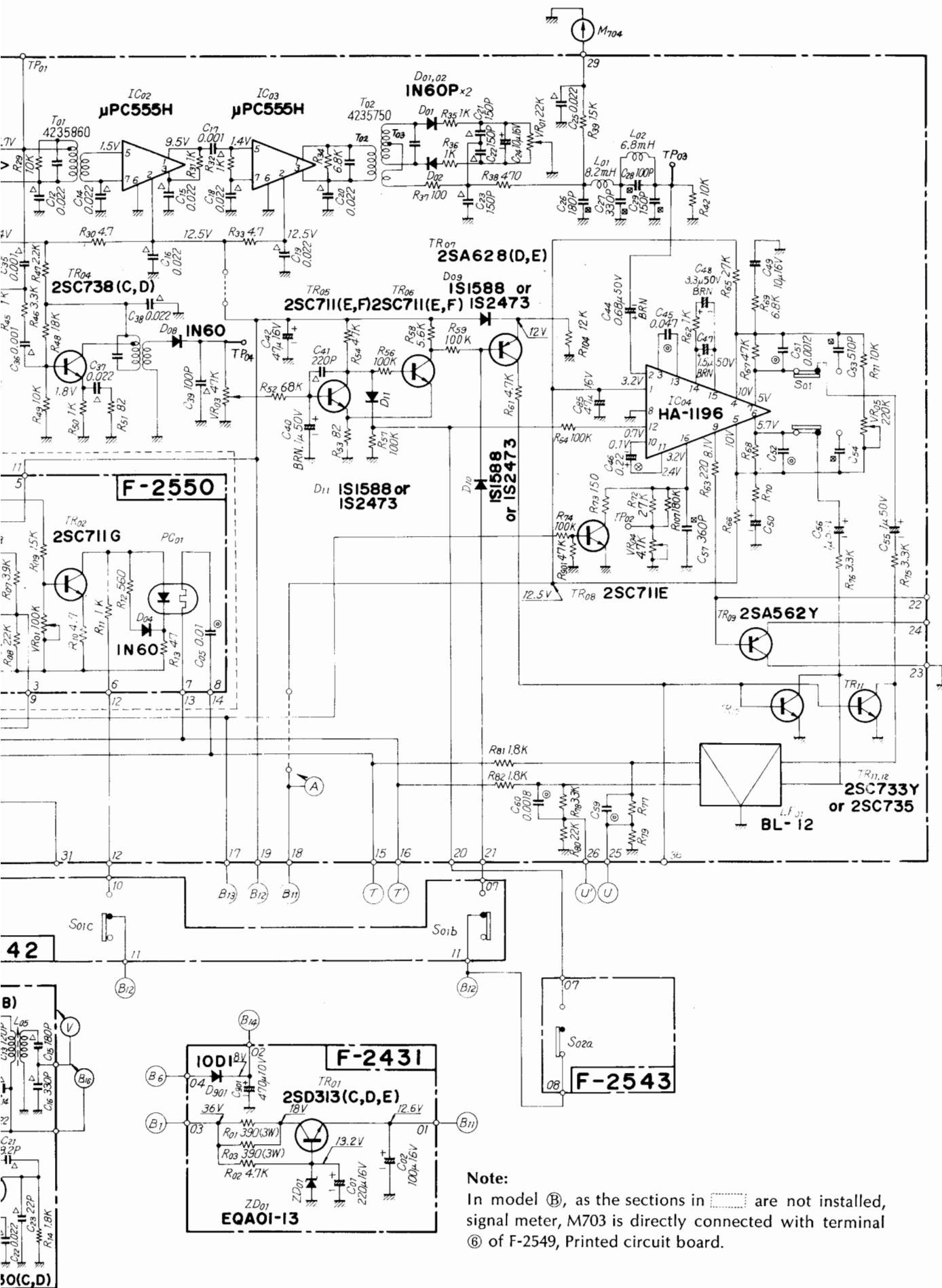
|                    |        |         |
|--------------------|--------|---------|
| 4-CH AD/NR.AD      | F-2542 | S01a    |
| FM MUTING          | F-2542 | S01b    |
| MPX NOISE CANCELER | F-2542 | S01c    |
| METER SELECTOR     | F-2542 | S01d    |
| AUDIO MUTING       | F-2545 | S01a, b |
| LOW FILTER         | F-2545 | S02a, b |
| HIGH FILTER        | F-2545 | S03a, b |
| LOUDNESS           | F-2543 | S01a, b |
| MODE               | F-2543 | S02a, b |







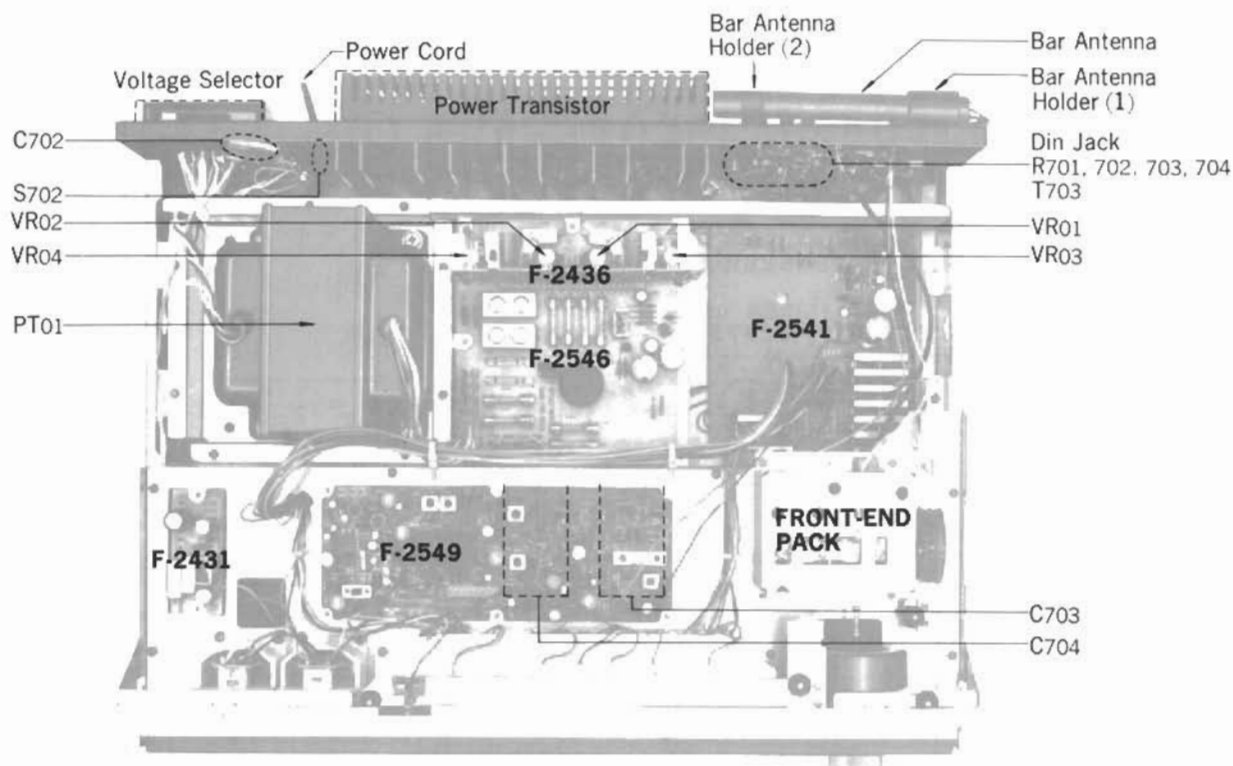




**Note:**

In model B, as the sections in   are not installed, signal meter, M703 is directly connected with terminal ⑥ of F-2549, Printed circuit board.

# 8. OTHER PARTS 8-1. Other Parts (Top Side)



## Parts List

| Parts No. | Stock No.                                  | Description                                                                                                                                         |
|-----------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|           | 0306331, 2                                 | 2SC1116A(O, Y) MODEL(A) } Power                                                                                                                     |
|           | 0305841, 2                                 | 2SC1116 (O, Y) MODEL(B) } Transistor                                                                                                                |
| PT01      | { 4002340<br>4002350                       | { MODEL (A)<br>MODEL (B) } Power Transformer                                                                                                        |
| T702      | 4200760                                    | Bar Antenna                                                                                                                                         |
| T703      | 4290021                                    | Antenna Transformer, 75Ω/300Ω                                                                                                                       |
| C701      | 0605337                                    | 0.033μF 250V M.C.                                                                                                                                   |
| C702      | 0605476                                    | 0.0047μF 250V M.C.                                                                                                                                  |
| C703, 704 | { 0559843<br>0559515                       | { 6800μF 71V E.C. MODEL(A)<br>6800μF 63V E.C. MODEL(B)                                                                                              |
| R701, 702 | 0113184                                    | 180kΩ 1/4 W S.R.                                                                                                                                    |
| R703, 704 | 0113104                                    | 100kΩ 1/4 W S.R.                                                                                                                                    |
| F701      | { 0431280<br>0431320<br>0431270<br>0431300 | { 5A 250V (AC 220~240V) } MODEL(A)<br>10A 250V (AC 100~120V) } Power Fuse<br>4A 250V (AC 220~240V) } MODEL(B)<br>7A 250V (AC 100~120V) } Power Fuse |
| R707      | 0103122                                    | 1.2kΩ 1/2 W C.R.                                                                                                                                    |

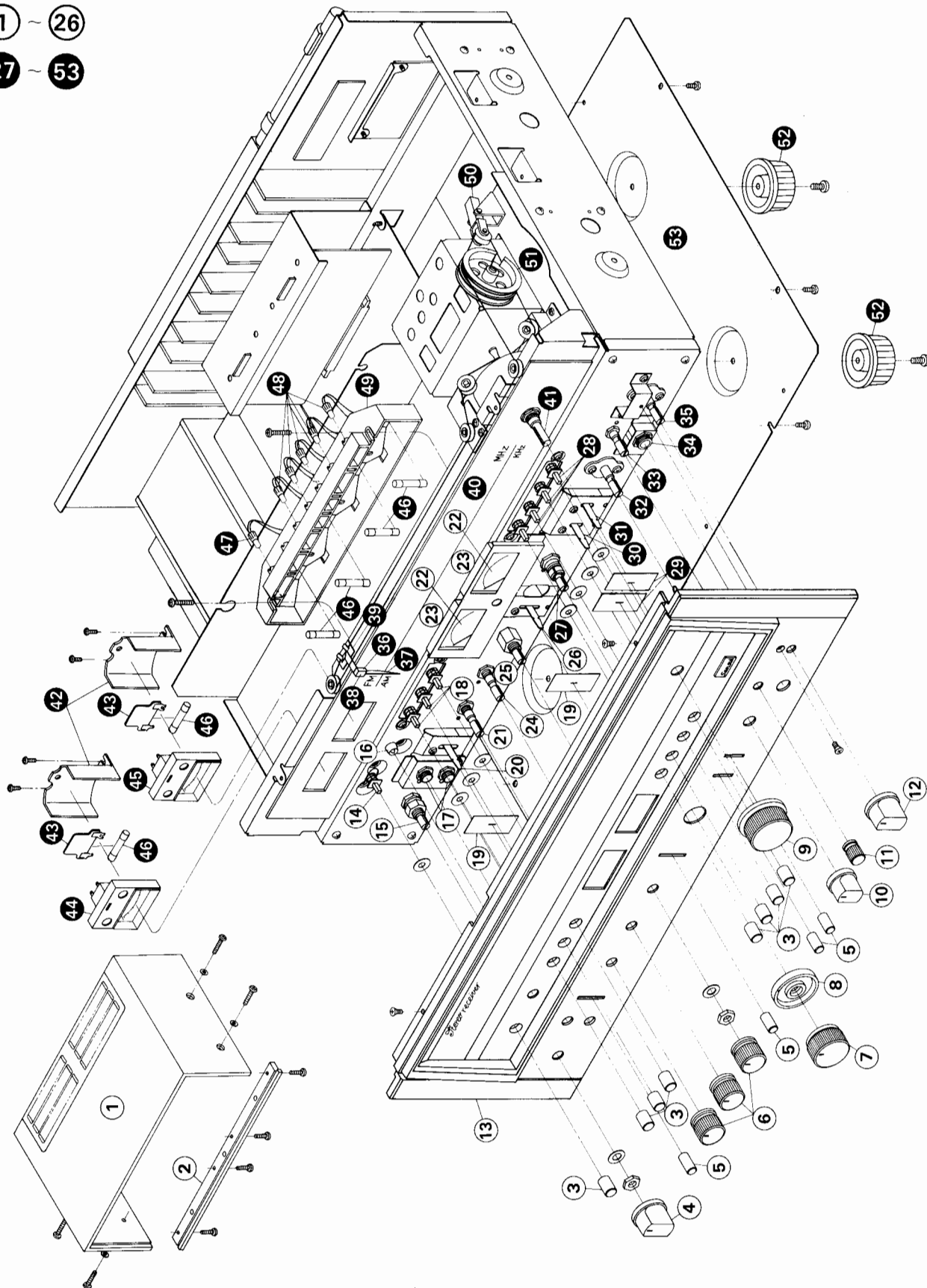
| Parts No. | Stock No.            | Description                           |
|-----------|----------------------|---------------------------------------|
| S702      | 1900020              | Thermal Lead Switch                   |
|           | 2210190              | 3P Antenna Terminal                   |
|           | 2200340              | 8P PRE/MAIN Terminal                  |
|           | 2200360              | 12P Input Terminal                    |
|           | 2290160              | 4P Output Terminal                    |
|           | 2230051              | Ground Terminal                       |
|           | 2430040, 1           | Din Jack                              |
|           | 2300060              | Power Fuse Holder                     |
|           | 2460010              | PRE/MAIN Connector                    |
|           | 2030040              | Power Transistor Socket               |
|           | 2450060              | AC Outlet                             |
|           | 2410091              | Voltage Selector Plug                 |
|           | 2410830              | Voltage Selector Socket               |
|           | 5268600              | Voltage Selector Cover                |
|           | { 3800290<br>3800261 | { MODEL (A)<br>MODEL (B) } Power Cord |
|           | 5286450              | Bar Antenna Holder (1)                |
|           | 5286480              | Bar Antenna Holder (2)                |

**Note:** In parts list above, there are two model numbers as model (A) and (B).  
Regarding name of model (A), (B), please refer to "Notes" indicated on page 1.

8-2. Other Parts (Front Side)

① ~ ②⑥

②⑦ ~ ⑤③

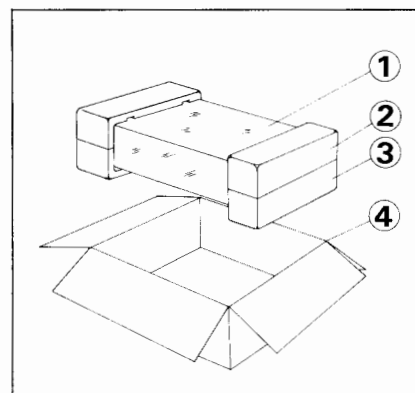


## Parts List (Front Side)

| Parts No. | Stock No.            | Description                               |
|-----------|----------------------|-------------------------------------------|
| 1         | { 5726933<br>5726923 | MODEL(A) } Bonnet                         |
| 2         | { 5996092<br>5996102 | MODEL(A) } Panel Sash                     |
| 3         | 5326550              | Push Knob (B)                             |
| 4         | { 5318400<br>5318380 | E-2 Type Knob MODEL(A) } Speakers Knob    |
| 5         | 7106130              | C-2 Type Knob, Lever Switch               |
| 6         | 5318410              | S-10 Type Knob, Tone Control Knob         |
| 7         | 5318440              | WI-6 Type Knob, Volume                    |
| 8         | 5318431              | WO-8 Type Knob, Balance                   |
| 9         | 5318420              | T-12 Type Knob, Tuning                    |
| 10        | { 5318390<br>5318410 | E-1 Type Knob MODEL(A) } Tape Copy Switch |
| 11        | 5318340              | N-6 Type Knob, MIC Level                  |
| 12        | { 5318400<br>5318380 | E-2 Type Knob MODEL(A) } Selector Knob    |
| 13        | { 7007160<br>7007170 | MODEL(A) } Front Panel                    |
| 14        | 1131190              | Power Switch                              |
| 15        | 1102650              | Speakers Switch                           |
| 16        | 0319040              | LED Ass'y                                 |
| 17        | 2430200              | Head phone Jack                           |
| 18        | 1131170              | Push Switch                               |
| 19        | 5047470              | Masking, Lever Switch                     |
| 20        | 1171220              | Bass Selector MODEL(A) only               |
| 21        | 1010930              | Bass Volume, 100k $\Omega$ B              |
| 22        | 4300920              | Power Meter                               |
| 23        | 7726040              | Power Meter Circuit Board                 |
| 24        | 1010930, 1           | Midrange Volume, 100k $\Omega$ B          |
| 25        | 1010930, 1           | Treble Volume, 100k $\Omega$ B            |
| 26        | 1171240              | Treble Selector MODEL(A) only             |
| 27        | 1060320, 1           | Master & Balance Volume, 250k $\Omega$ MN |
| 28        | 1131180              | Push Switch                               |
| 29        | 5047470              | Masking, Lever Switch                     |
| 30        | 1171120              | Loudness Switch                           |
| 31        | 1171120              | MODE Switch                               |
| 32        | 1102660              | Tape Copy Switch                          |
| 33        | 1005170, 1           | MIC Volume, 20k $\Omega$                  |
| 34        | 2430170              | MIC Jack                                  |
| 35        | 1103550              | Selector                                  |
| 36        | 5416350              | Holder, Dial Pointer                      |
| 37        | 5416050              | Dial Pointer                              |
| 38        | 0400200              | Dial Pointer Lamp, 6.3V 75mA              |
| 39        | 5516030              | Teflon Sheet                              |
| 40        | 5407930              | Dial Glass                                |
| 41        | 7036451              | Tuning Unit                               |
| 42        | 5269330              | Meter Holder                              |
| 43        | 7726060              | Meter Circuit Board                       |
| 44        | 4300740              | Signal Meter                              |
| 45        | 4300750              | Tune Meter                                |
| 46        | 0420040              | Meter Lamp, 7V 330mA                      |
| 47        | 0400420              | FM Stereo Indicator, 7V 100mA             |
| 48        | 0400420              | Indicator Lamp, 7V 100mA                  |
| 49        | 5066211              | Illumination Box                          |
| 50        | 7136080              | Tension Unit                              |
| 51        | 6146670              | Dial Pulley, D-44                         |
| 52        | 5517050              | Leg                                       |
| 53        | 5058510              | Bottom Plate                              |

## 9. PACKING LIST

| Parts No. | Stock No.            | Description           |
|-----------|----------------------|-----------------------|
| 1         | 9116271              | Vinyl Cover           |
| 2         | 9027940              | Stylofoam Packing (A) |
| 3         | 9027930              | Stylofoam Packing (B) |
| 4         | { 9009020<br>9008420 | Carton Case MODEL(A)  |
| 5         | 5996080              | Carton Case MODEL(B)  |
|           |                      | Curl Stopper          |



## 10. ACCESSORY PARTS LIST

| Stock No. | Description                     |
|-----------|---------------------------------|
| 9209270   | Operating Instructions MODEL(A) |
| 9209280   | Operating Instructions MODEL(B) |
| 9237030   | Schematic Diagram MODEL(A)      |
| 9237040   | Schematic Diagram MODEL(B)      |

**Note:** In parts list above, there are two model numbers as model (A) and (B).  
Regarding name of model (A), (B), please refer to "Notes" indicated on page 1.



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

SM052

Printed in Japan (D5720M)