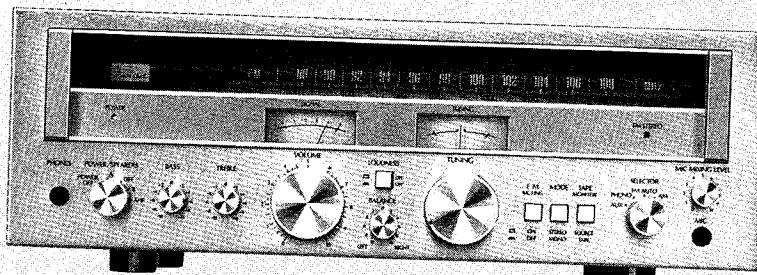


SERVICE MANUAL

(665)
AM/FM STEREO RECEIVER

SANSUI G-3500/301 G-4500/401



Sansui

SANSUI ELECTRIC CO., LTD.

SPECIFICATIONS

G-3500/301

Audio section

Power output

Min. RMS, both channels driven, from 20 to 20,000 Hz, with no more than 0.1% total harmonic distortion.

26 watts per channel into 8 ohms

Load impedance 8 ohms

Total harmonic distortion

. less than 0.1% at or below rated min.
RMS power output

Intermodulation distortion (70 Hz : 7 kHz = 4:1 SMPTE method)

. less than 0.1%

Frequency response (at 1 watt)

. 10 to 20,000 Hz +1 dB -2 dB

RIAA curve deviation (PHONO)

. +0.5 dB -0.5 dB (30 to 15,000 Hz)

Damping factor approximately 30 at 8-ohm

load

Input sensitivity and impedance (1 kHz, for rated power output)

PHONO 2.5 mV/47 kilohms

(Max. input capability; 200 mV at 1 kHz, less than 0.5% total

harmonic distortion)

AUX, TAPE 150 mV/47 kilohms

MIC 8 mV/10 kilohms

Output level (1 kHz)

TAPE REC (pin jack) 150 mV/47 kilohms

Channel separation (1 kHz, at rated power output)

PHONO better than 50 dB

AUX better than 50 dB

Hum and noise (short-circuit, A network)

PHONO 75 dB

AUX 95 dB

Controls

BASS ±10 dB (50 Hz)

TREBLE ±10 dB (10 kHz)

LOUDNESS (-30 dB) 7 dB at 50 Hz

5 dB at 10 kHz

FM section

Tuning range 88 to 108 MHz

Usable sensitivity

Mono IHF 11.0 dBf (1.95 μV)

DIN 1.2 μV

Stereo IHF 19.0 dBf

50 dB Quieting sensitivity

Mono 15 dBf

Stereo 38 dBf

Signal to noise ratio (at 65 dBf)

Mono 71 dB

Stereo 68 dB

Distortion (at 65 dBf)

Mono less than 0.18% at 100 Hz

less than 0.15% at 1,000 Hz

less than 0.25% at 6,000 Hz

Stereo less than 0.3% at 100 Hz

less than 0.25% at 1,000 Hz

less than 0.3% at 6,000 Hz

Alternate channel selectivity (at 400 kHz)

Capture ratio 50 dB

Image response ratio 48 dB (at 98 MHz)

Spurious response ratio 70 dB (at 98 MHz)

Stereo separation 30 dB at 100 Hz

40 dB at 1,000 Hz

28 dB at 10,000 Hz

Frequency response 30 to 15,000 Hz +0.5 dB -1.0 dB

Antenna input impedance 300 ohms balanced

75 ohms unbalanced

AM section

Tuning range 530 to 1,600 kHz

Usable sensitivity (Bar antenna)

50 dB/m (300 μV/m)

Selectivity 35 dB

Signal to noise ratio 46 dB

Power requirements

Power voltage 100, 120, 220, 240 V (50/60 Hz)

120 V (Usable 110 ~ 130 V)

60 Hz (for U.S.A. and Canada only)

Power consumption

Rated consumption 90 watts 110 VA

Dimensions 433 mm (17-1/16") W

153 mm (6-1/16") H

354 mm (14") D

Weight 7.5 kg (16.5 lbs) net

8.9 kg (19.6 lbs) packed

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

to be continued

SPECIFICATIONS

G-4500/401

Audio section	
Power output	
Min. RMS, both channels driven, from 20 to 20,000 Hz, with no more than 0.1% total harmonic distortion.	
40 watts per channel into 8 ohms	
Load impedance	8 ohms
Total harmonic distortion	less than 0.1% at or below rated min. RMS power output
Intermodulation distortion (70 Hz : 7 kHz = 4:1 SMPTE method)	less than 0.1%
Frequency response (at 1 watt)	10 to 50,000 Hz +1 dB -2 dB
RIAA curve deviation (PHONO)	+0.5 dB -0.5 dB (30 to 15,000 Hz)
Damping factor	approximately 30 at 8-ohm load
Input sensitivity and impedance (1 kHz, for rated power output)	
PHONO	2.5 mV/47 kilohms (Max. input capability; 200 mV at 1 kHz, less than 0.5% total harmonic distortion)
AUX, TAPE	150 mV/47 kilohms
MIC	8 mV/10 kilohms
Output level (1 kHz)	
TAPE REC (pin jack)	150 mV/47 kilohms
Channel separation (1 kHz, at rated power output)	
PHONO	better than 50 dB
AUX	better than 50 dB

Hum and noise (short-circuit, A network)	
PHONO	75 dB
AUX	95 dB
Controls	
BASS	±10 dB (50 Hz)
TREBLE	±10 dB (10 kHz)
LOUDNESS (-30 dB)	7 dB at 50 Hz 5 dB at 10 kHz
FM section	
Tuning range	88 to 108 MHz
Usable sensitivity	
Mono IHF	11.0 dBf (1.95 μV)
DIN	1.2 μV
Stereo IHF	19.0 dBf
50 dB Quieting sensitivity	
Mono	15 dBf
Stereo	38 dBf
Signal to noise ratio (at 65 dBf)	
Mono	71 dB
Stereo	68 dB
Distortion (at 65 dBf)	
Mono	less than 0.18% at 100 Hz less than 0.15% at 1,000 Hz less than 0.25% at 6,000 Hz
Stereo	less than 0.3% at 100 Hz less than 0.25% at 1,000 Hz less than 0.3% at 6,000 Hz
Alternate channel selectivity (at 400 kHz)	
	50 dB

Capture ratio	1.3 dB
Image response ratio	48 dB (at 98 MHz)
Spurious response ratio	70 dB (at 98 MHz)
Stereo separation	30 dB at 100 Hz 40 dB at 1,000 Hz 28 dB at 10,000 Hz
Frequency response	30 to 15,000 Hz ±0.5 dB -1.0 dB.
Antenna input impedance	300 ohms balanced 75 ohms unbalanced
AM section	
Tuning range	530 to 1,600 kHz
Usable sensitivity (Bar antenna)	50 dB/m (300 μV/m)
Selectivity (±10 kHz)	35 dB
Signal to noise ratio	46 dB
Power requirements	
Power voltage	100, 120, 220, 240 V (50/60 Hz) 120 V (Usable 110 ~ 130 V) 60 Hz (for U.S.A. and Canada only)
Power consumption	
Rated consumption	115 watts 145 VA
Dimensions	433 mm (17-1/16") W 153 mm (6-1/16") H 354 mm (14") D
Weight	8.1 kg (17.9 lbs) net 9.5 kg (20.9 lbs) packed

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

1. OPERATIONS

Pop-noise preventive circuit

In order to prevent the annoying pop-noise to the loudspeakers at turning the power of the amplifier ON, the pop-noise preventive circuit adopted in the G-4500/401 is the combination of the conventional driver-voltage delay type used in the power supply (rectifier) circuit and the NF delay type pop-noise preventive circuits. The configuration of NF delay type pop-noise preventive circuit is shown in Fig. 1.

In this circuit, the switching (ON-OFF) of the transistor TR05 is made by the time constant of the capacitor C40 and resistor R88. Thereby the NF resistor, R51 is controlled, and the gain of the main amplifier stage is lowered when TR05 is ON, thus the voltage drift (transient voltage) of the main amplifier at turning the power ON does not appear on the speaker terminals for very short period of time. In other words, at the instant that the power is turned ON, the voltage at the point A rises up to +13V, then the voltage decreases by means of the time constant of C40 and R88 as shown in Fig. 2. At this time, the diode D11 is inversely biased, consequently, the potential voltage of the point B is 0V as Fig. 3. Because of this, TR05 turns to the cut-off, thus the NF resistor, R51 acquires such a state as its resistance value becomes equivalently very large, which decreases the gain of the power amplifier. When the charge of the C40 is completed, the voltage of the point B (see Fig. 3) becomes negative, as a result, the diode D11 is biased. Therefore, TR05 is turned ON, and the circuit of this equipment is normally operated approximately 2 seconds after the power is turned ON to prevent the pop-noise which flows to loudspeakers.

Fig. 1

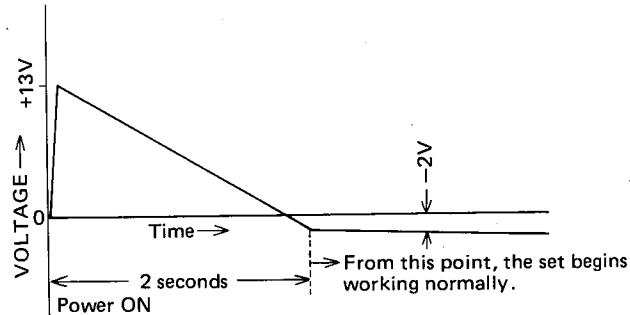
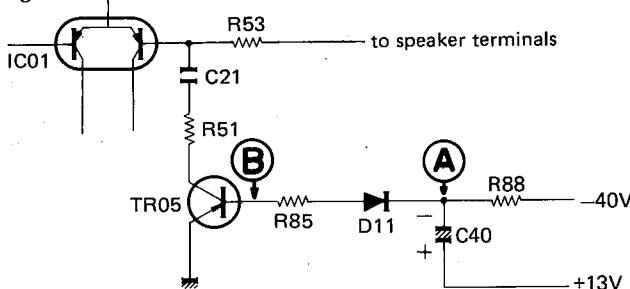


Fig. 2 Voltage variation during a certain period of time at (A)

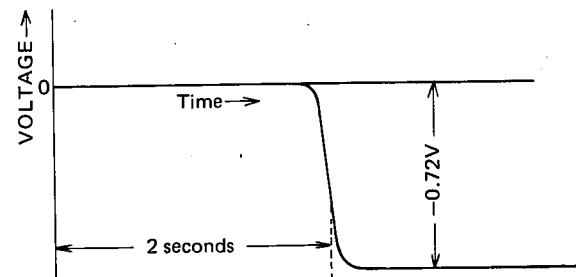
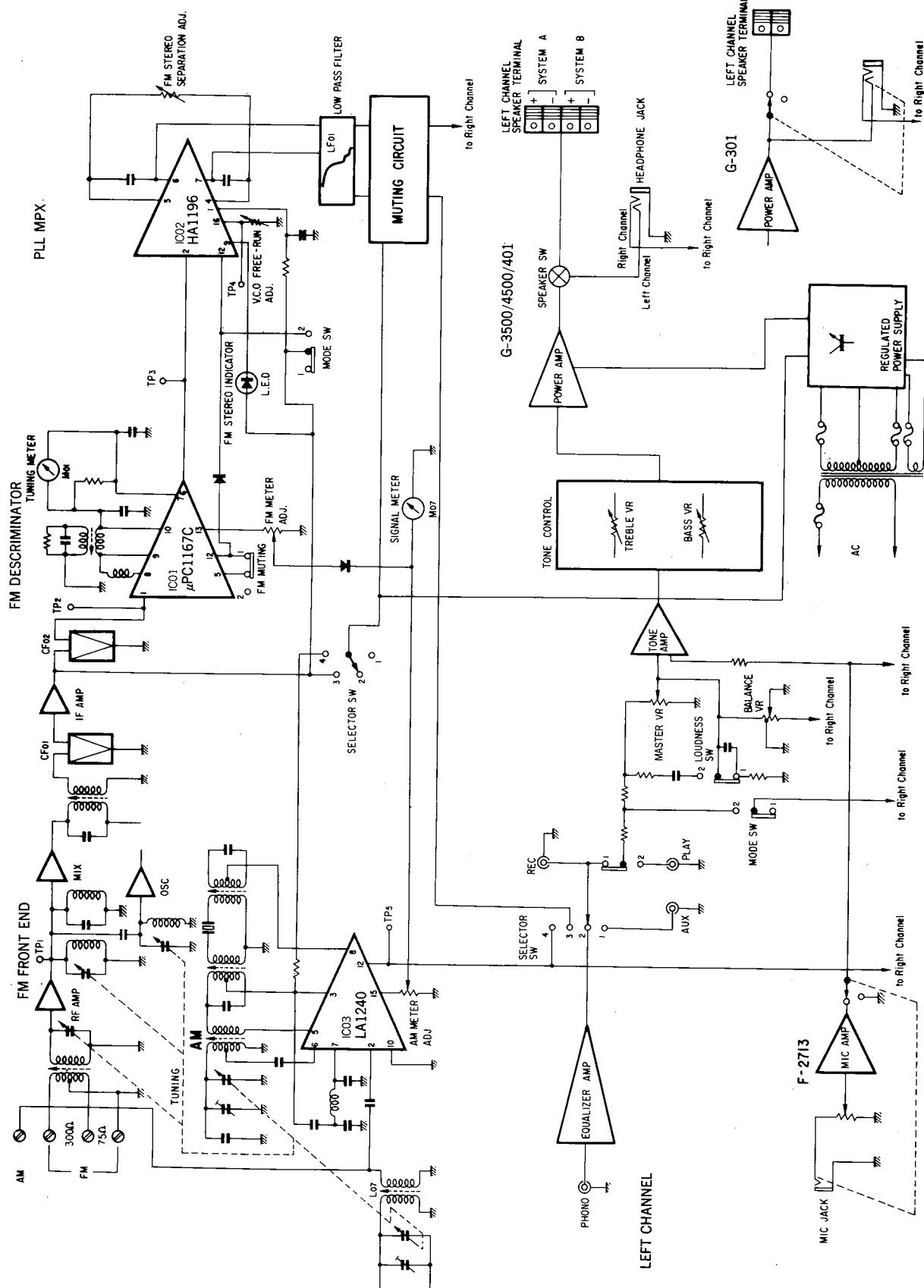


Fig. 3 Voltage variation at (B)

2. BLOCK DIAGRAM



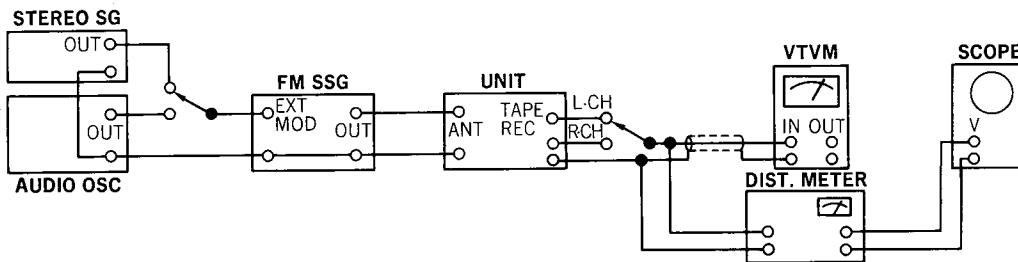
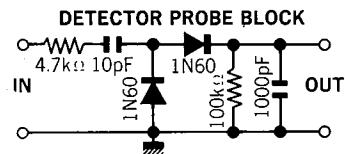
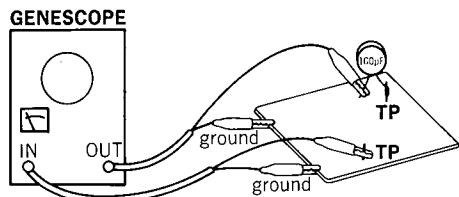
3. ADJUSTMENTS

* Refer to illustration of F-2924 circuit board on next page.

3-1. FM Adjustment

Note: 1. Selector FM AUTO
2. FM Muting Switch OFF

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



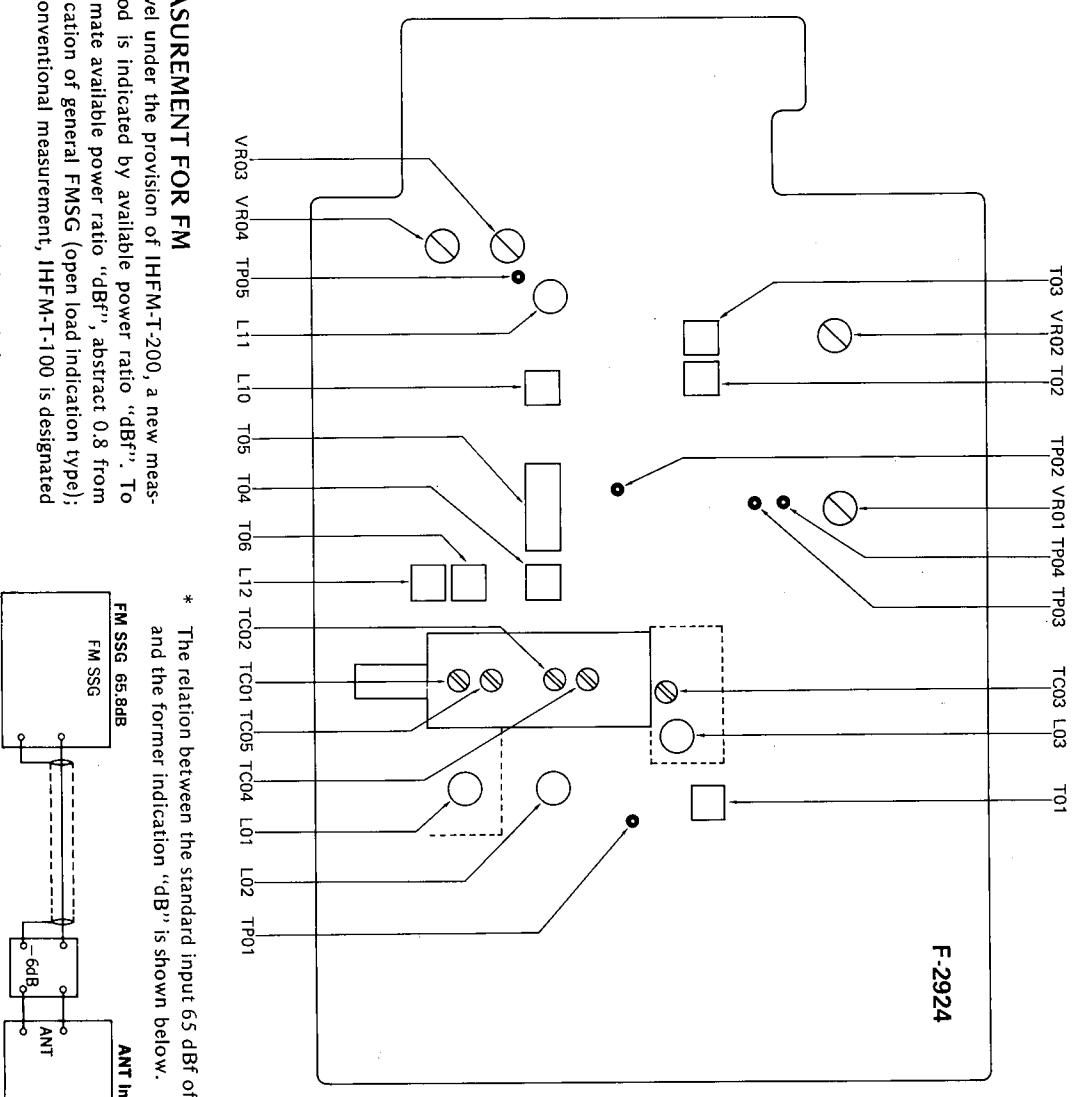
1) FM IF Adjustment & Dial Calibration

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
		FROM	TO				
1.	IF Coil	Output 80 dB Genescope	TP01 F-2924	TP02 F-2924 Use Detector Probe	T01 F-2924	Max. IF waveform	
2.	Discriminator Coil	Same as above	Same as above	TP03 F-2924	T02, T03 F-2924	Steep linearity of S curve Make symmetrical S curve	
	Discriminator Coil In case of using Dist Meter	98 MHz ANT Input 65 dBf (59.8 dB) 1000 Hz (100% MOD) FM SSG	ANT terminal 300Ω	REC terminal Dist Meter	T02, T03 F-2924	Min. T.H.D.	
3.	Tuning Meter	98 MHz ANT Input 65 dBf (59.8 dB) 1000 Hz (100% MOD) FM SSG	Same as above	Tuning Meter	T02 F-2924	Center on Meter	
4.	90 MHz Dial Calibration	90 MHz ANT Input 65 dBf (59.8 dB) 1000 Hz (100% MOD) FM SSG	Same as above	REC terminal VTVM & Scope	L03 F-2924	Max. indication on Signal meter & Center indication on Tuning meter	
	106 MHz Dial Calibration	106 MHz ANT Input 65 dBf (59.8 dB) 1000 Hz (100% MOD) FM SSG	Same as above	Same as above	TC03 F-2924		
5.	90 MHz RF Adj.	90 MHz ANT Input Minimum value with sine wave 1000 Hz (100% MOD) FM SSG	Same as above	Same as above	L01, L02 F-2924	Same as above	
	106 MHz RF Adj.	106 MHz ANT Input Minimum value with sine wave 1000 Hz (100% MOD) FM SSG	Same as above	Same as above	TC01, TC02 F-2924	Same as above	
6.	Signal Meter Volume	98 MHz ANT Input 65 dBf (59.8 dB) 1000 Hz (100% MOD) FM SSG	Same as above	Signal Meter	VR03 F-2924	4.3 on Meter	

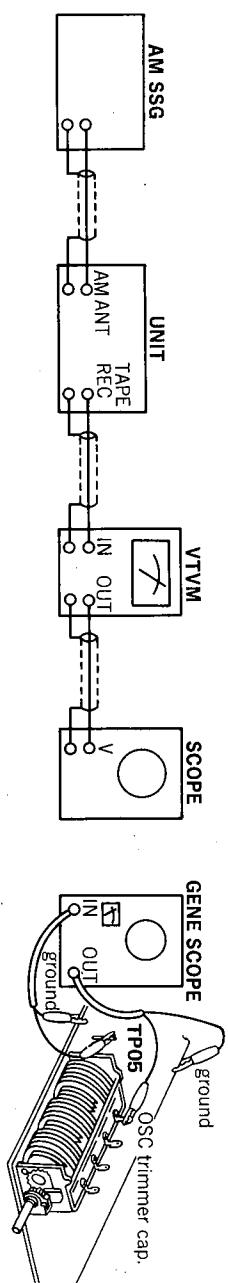
2) FM STEREO Adjustment

Note: 1. Mode STEREO

STEP	SUBJECT	FEED SIGNAL FROM	TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	PLL VCO Adj. In case of using Freq. counter	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) SUB 1 kHz + Pilot (100% MOD) STEREO SG	ANT terminal 300Ω	Stereo indicator F-2924	VR01 F-2924	Light indicator	Adjust the VR01 within center of lighting level.
2.	Separation	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) R (or L) Mode 1 kHz + Pilot (100% MOD) STEREO SG	Same as above	TP04 F-2924 Use Freq. counter	VR01 F-2924	76 kHz ± 150 Hz	Confirm separation L-CH → R-CH. (-34 dB)



STEP	SUBJECT	FEED SIGNAL FROM	TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	IF Coil	Genescope Output Level 70 dB	TC04 F-2924	TP05 F-2924	T05 L10 F-2924	Max. IF waveform	
2.	600 kHz Dial Calibration	600 kHz ANT Input 60 dB 400 Hz (MOD 30%) AM SSG	AM ANT terminal L or R-CH VTVM & Scope	T04 F-2924	TC04 F-2924	Max. indication on signal meter	535 1000 1500 2000
3.	600 kHz RF Adj.	600 kHz ANT Input 50 dB 400 Hz (MOD 30%) AM SSG	Same as above	Same as above	Bar Antenna L07	Same as above	
4.	1400 Hz RF Adj.	1400 kHz ANT Input 50 dB 400 Hz (MOD 30%) AM SSG	Same as above	Same as above	TC05 F-2924	Same as above	
	Signal Meter volume	1000 kHz ANT Input 80 dB 400 Hz (MOD 30%) AM SSG	Same as above	Signal Meter	VR04 F-2924	4.5 on meter	



3-3. Bias Current Adjustment (See the Picture of Top View on page 8)

1. Confirm AC power supply voltage (100 V, 120 V, 220 V or 240 V).

2. Master Volume Minimum

3. Room Temperature 18°C ~ 28°C (65°F ~ 83°F)

4. Before this adjustment, turn bias adjustment volumes of VR04 and VR05 fully counterclockwise, then run this unit for more than three minutes.

Note: For this adjustment, measure the voltage between the lead + (plus) side of R77 (R78) and the lead - (minus) side of R79 (R80) on both channels.

(Measure output voltage on both channel)

Voltmeter \oplus

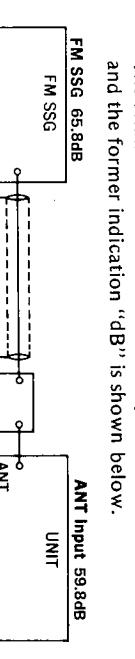
Voltmeter \ominus

(Power stage on F-2711)

* NEW MEASUREMENT FOR FM

Input signal level under the provision of IHFM-T-200, a new measurement method is indicated by available power ratio "dBf". To obtain approximate available power ratio "dBf", abstract 0.8 from attenuator indication of general FMSG (open load indication type); however, the conventional measurement, IHFM-T-100 is designated together too.

The way of modulation on IHFM-T-200 is shown below.



3-2. AM IF Adjustment & Dial Calibration

Note: i. Selector AM

	modulation frequency	modulation mode	modulation factor
FM MONO	1000 Hz		100%
FM STEREO		SUB	Pilot Pilot + SUB 100%

4. PARTS LOCATION & PARTS LIST

4-1. F-2924 AM/FM Tuner & FM MPX Circuit Board(Stock No. 7521861)

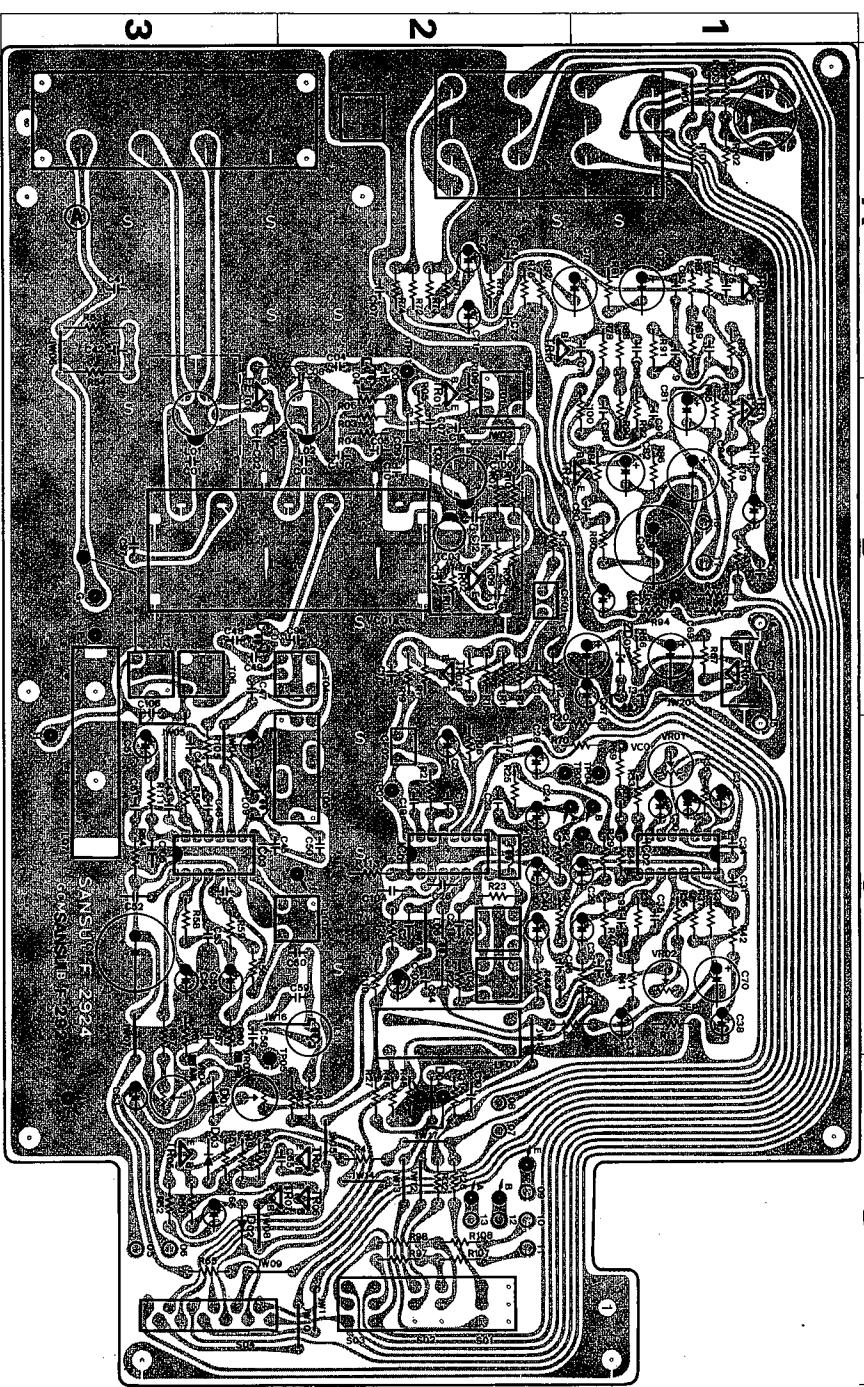
Conductor Side

A

B

C

D



Parts List

Part No.	Stock No.	Description	Position
•Transistors			
TR01,02	0305601.2	2SC1047 B,C L,K	2B L,04
TR03	0306341.2	2SC1674 L,K	2B L,05
TR04	0305651.2	2SC945 O,P 2SA126W F	2D L,06
TR05	0306047.0	2SC1439 B,V	3D L,07
TR06,07	0306681.2	2SC1263A	3D L,08
TR08	0308450.1	2SC9356 C,D 2SA906 G,H	1B,2D L,09
TR09,10	0309000.1	2SC1313 F,G	1B,2A L,10
TR11,12	0306070.1	2SC1047 B,C L,K	1B L,11
•ICs			
IC 01	03601750	μPC1167C	2C T,01
IC 02	0360320	HA1196	1C T,02
IC 03	0360680	LA1240	3C T,03
•FET			
FT 01	0370172	2SK49 (H)	3B T,04
•Diodes			
D 01 ~ 04	0311160	1S2473D	3D,2D LF 01
•Zener Diodes			
ZD 01	0315970	EOA01-13R	1B
•Capacitors			
C 01 ~ 03	0669347	120F 50V C.C. 100F 50V C.C. 3pF 50V C.C.	3B,2B VR02
C 04	0669210	100F 50V C.C. 1.5pF 50V 0.9pF 50V	2A VR03
C 06	0669503	Gimnick Capacitor	2A VR04
C 09	0679012		2B 1035110
C 10	0669395	200F 50V C.C. 10pF 50V C.C.	2B VR05
C 11,13	0669210	10pF 50V C.C. 3.3μF 35WV T.C.	2B S 01
C 32	0573159	3.3μF 35WV T.C.	1C S 02
C 33	0573339	350pF 50V P.C.	1C VR01
C 34	0629005	300pF 50V P.C.	1C VR02
C 49	0629301	100kΩ x 2 Bass Volume	3D VR03
C 89,90	0620161	100pF 50V P.C. 560pF 50V P.C.	2D VR04,05
C 95,96	0620561	100pF 50V C.C. 3pF 50V C.C.	2C F 01
C 97	0669563	15pF 50V C.C.	2B J 01
C 98	0669400	0.068μF 100V 15pF 50V C.C.	2B TC03
L 01	4200720	2201030 Antenna Coil (FM)	3B L,02
L 02	42010340	22010180 RF Coil	2B 2200410,1

Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the Common Parts List for capacitors & resistors which was appended previously to each Sansui Manual.

4-2. F-2711 Pre/Main & Power Supply Circuit Board (Stock No. 7572141/G-3500) (Stock No. 7572081/G-301)

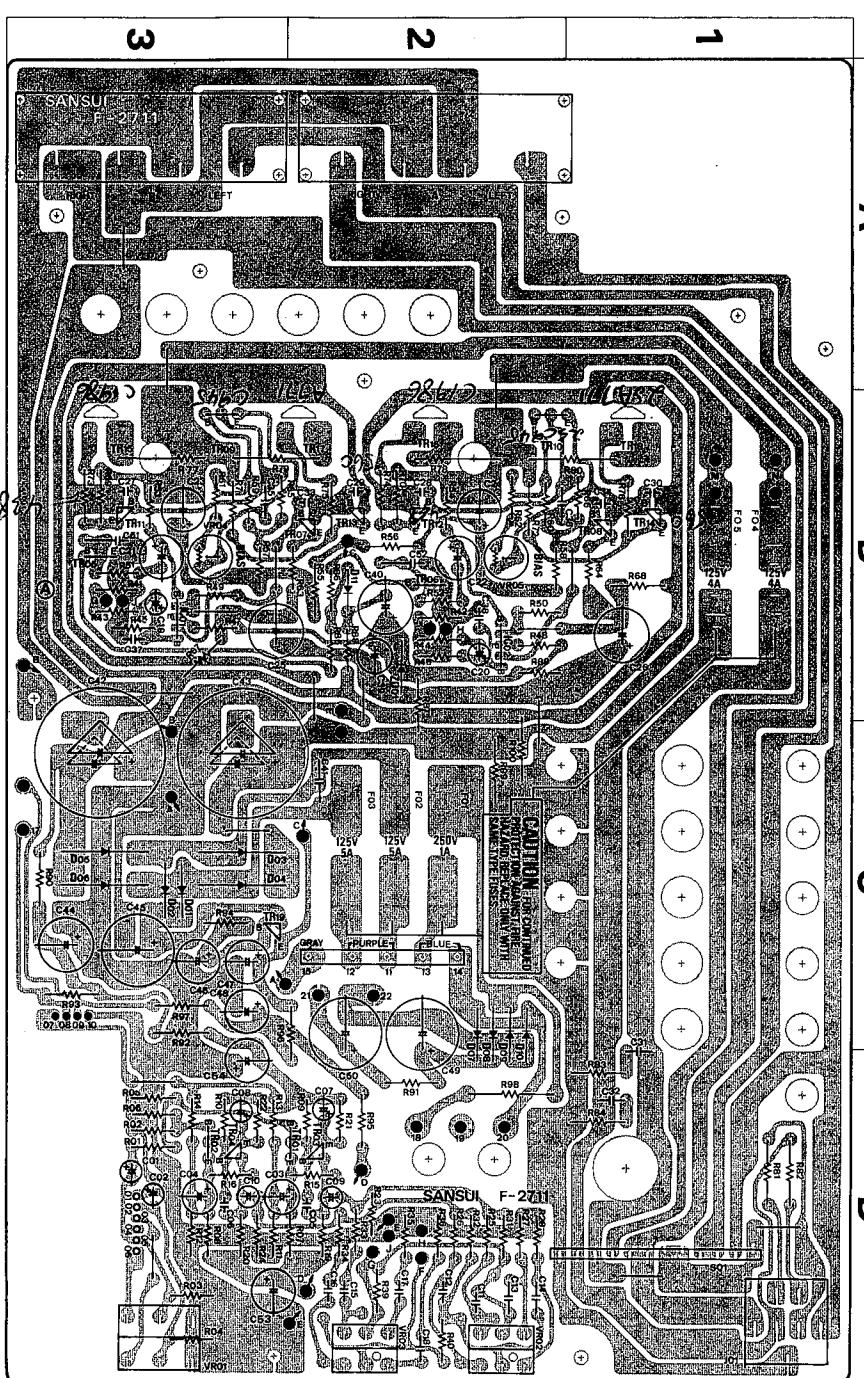
Conductor Side

A

B

C

D



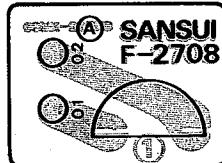
Parts List

Part No.	Stock No.	Description	Position
•Transistors			
TR01,02	0300470,1	2SA1726W F,G 2SC1313 F,G	2D,3D 2D,3D
TR03	04	2SC1439 B,V	2B,1B
TR07,08	0305621,2	2SC945 P,Q	2C R,87
TR08,10	0309561,2	3B,2B	2B R,90
TR11,12	0308521,2	2SD438 E,F	3C R,92
TR13,14	030361,2	2SB580 E,F	3C R,93
TR15,16	0308541,2	2SC1986 O,Y	2D R,95
TR17,18	0308911,2	2SA771 O,Y	3C R,97
TR19	0308921,2	2SD438 E,F	3C R,99,100
•ICs			
IC 01	03601750	4225930 IF Coil (FM)	2B T,01
IC 02	0360320	4225940 IF Coil	2C T,02
IC 03	0360680	4236000 IF Coil	2C T,03
•FET			
FT 01	0370172	4236020 Ceramic Filter (AM)	2B T,04
•Diodes			
D 01,02	0360290,1	4236020 Ceramic Filter (AM)	2C T,05
D 03 ~ 06	0311530	4236020 IF Coil	2C D 07 ~ 10
D 07 ~ 10	0310340	4236020 Ceramic Filter (FM)	2C D 07 ~ 10
•Diodes			
D 01,02	0311160	1S2473D Ceramic Filter (FM)	2B,2C D 11
•Zener Diode			
ZD 01	0315970	EOA01-13R	2B
•Capacitors			
C 41	0655103	10.000pF 500V C.C.	2C
•Transistors			
TR05,06	0300510,1	<G-4500/401> 2SA733 P,Q	3B,2B
•Diodes			
F 02,03	0432290	5A 125V AC Fuse	2C
•Diodes			
D 11	0311160	1S2473D	2B
•Transistors			
C 42,43	0549116	<G-3500/301> 6.800μF 35V E.C.	2B
R 87	0210182	1.8kΩ 1/2W N.I.R.	2B
R 88	0210271	270kΩ 1/2W N.I.R.	3C
R 89	0210271	68kΩ 1/2W N.I.R.	3C
R 90	0210271	330kΩ 1/2W N.I.R.	3C
R 91	0210271	150kΩ 1/2W N.I.R.	2C
R 92	0210271	270kΩ 1/2W N.I.R.	2C
R 93	0210271	68kΩ 1/2W N.I.R.	2C
R 94	0210271	150kΩ 1/2W N.I.R.	3C
R 95	0210271	270kΩ 1/2W N.I.R.	2C
R 96	0210271	68kΩ 1/2W N.I.R.	2C
R 97	0210271	150kΩ 1/2W N.I.R.	3C
R 98	0210271	270kΩ 1/2W N.I.R.	2C
R 99,100	0210271	2.7kΩ 1W N.I.R.	2C
R 101	0210271	220kΩ 1/2W N.R.	2D
F 02,03	0432290	7A 125V Fuse	2C
•Capacitors			
VRO1	1011130,1	250kΩ (B) x 2 Level Volume	3D
VRO2	10115300,1	<G-3500/4500/401> 100kΩ x 2 Bass Volume	2D
VRO3	10115300,1	100kΩ x 2 Treble Volume	2D
VRO4,05	1035050	470Ω Volume,bias current	2D
J 01	2430320	SP Selector Switch	1D
F 01	0432290	1A 250V FUSE Holder (large)	1A
J 01	2430340	Headphone Jack Socket	<G-301>
L 01	4200720	5P DIN Socket	J 01
L 02	42010340	4P Antenna Terminal	2B
L 02	42010340	Ground Terminal	2B
L 02	42010340	8P Input Terminal	2B

* The circuit boards, F-2708, F-2709, F-2710, F-2712, F-2713 and F-2716 are not supplied as the assembled, the individual parts on the circuit boards, however, are provided for orders.

4-3. F-2708 Circuit Board for Signal Meter

Conductor Side

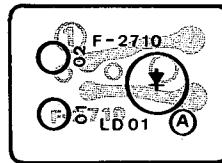


Parts List

Parts No.	Stock No.	Description
M01	4301230, 1	Signal Meter

4-5. F-2710 Circuit Board for Stereo Indicator

Conductor Side

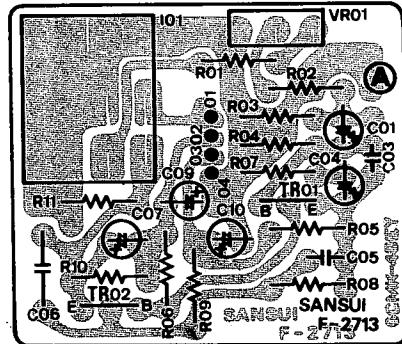


Parts List

Parts No.	Stock No.	Description
LD01	0319060	Light Emitted Diode

4-7. F-2713 Microphone Amp Circuit Board

Conductor Side

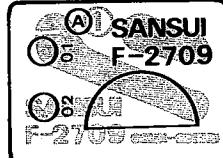


Parts List

Parts No.	Stock No.	Description
•Transistors		
TR01	0300470, 1	2SA726W F, G
TR02	0306070, 1	2SC1313 F, G
VR01	1005340, 1	20kΩ (A) Mixing Volume
J_01	2430330	Mic. Jack Socket

4-4. F-2709 Circuit Board for Tuning Meter

Conductor Side

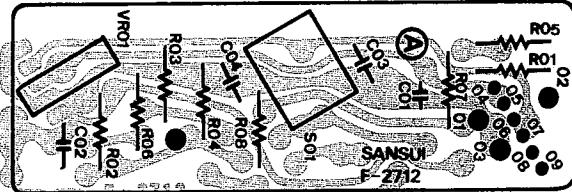


Parts List

Parts No.	Stock No.	Description
M02	4301240, 1	Tuning Meter

4-6. F-2712 Loudness Circuit Board

Conductor Side

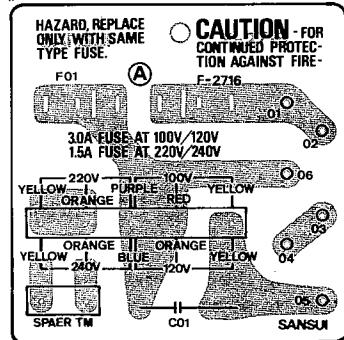


Parts List

Parts No.	Stock No.	Description
VR01	1005350, 1	250kΩ (B) x 2 Balance Volume
S_01	1131490, 1	Push Switch, loudness

4-7. F-2713 Microphone Amp Circuit Board

Conductor Side



Parts List

Parts No.	Stock No.	Description
C_01	0659802	0.0047μF 150V C.C.
F_01	0432230	1.5A 250V } G-3500/301
	0432260	3A 250V
	0432250	2.5A 250V } G-4500/401
	0432290	5A 125V
F_881	0435110	1.25A 250V EU, BS G-301
	0435130	2A 250V EU, BS G-401
	2310220	Fuse Holder (Large)

Abbreviations

C.R.	: Carbon Resistor	E.C.	: Electrolytic Capacitor
S.R.	: Solid Resistor	B.P.E.C.	: Bi-Polar Electrolytic Capacitor
Ce.R.	: Cement Resistor	C.C.	: Ceramic Capacitor
M.R.	: Metal Film Resistor	Mi.C.	: Mica Capacitor
F.R.	: Fusing Resistor	O.C.	: Oil Capacitor
N.I.R.	: Non-Inflammable Resistor	P.C.	: Polystyrene Capacitor
M.C.	: Mylar Capacitor	T.C.	: Tantalum Capacitor

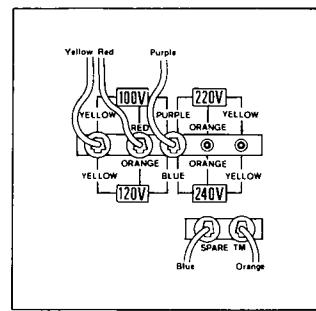
NOTE:

◆ Changing Power Supply Voltage: (This is applicable for universal type).

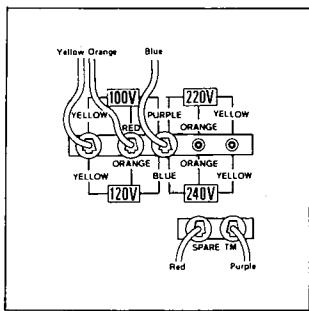
Your unit is adjusted to operate at the correct power supply voltage of your area prior to shipment from our factory. If you move to an outside country after purchasing it or send it as a gift to a friend living in an area where the voltage is different, it may be necessary to operate at the correct power supply voltage.

* When necessary, remove the bonnet from the unit and reconnect leads from power supply circuit board as described below in accordance with the required voltage (100 V, 120 V, 220 V or 240 V).

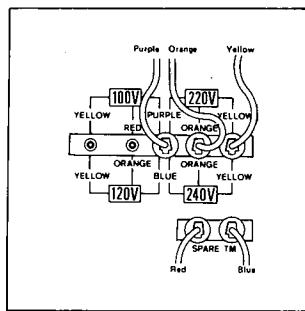
1) For 100V



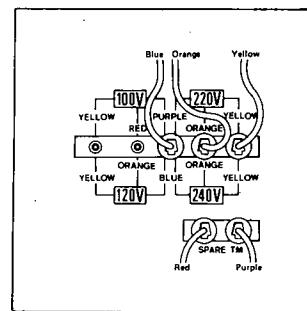
2) For 120V



3) For 220V



4) For 240V



5. PARTS REPLACEMENT

5-1. Square Knobs of Loudness, FM Muting, Mode & Tape Monitor

1. Take off a wood bonnet, front & inside panels.
2. Then, pull out knobs to which are not glued as Fig. 1.

5-2. Tuning & Signal Meter

1. Complete 1. & 2. above.
2. Take off the meter as Fig. 2, then put it back into same place until snapped.

Fig. 1

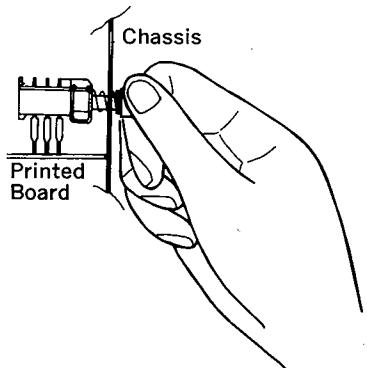
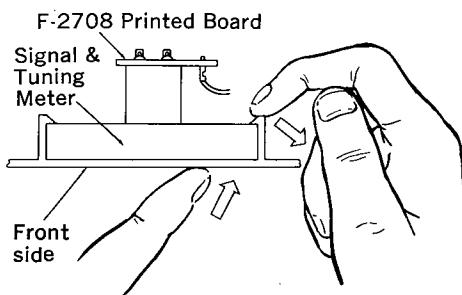


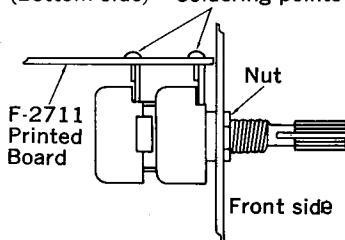
Fig. 2



5-3. Master Volume

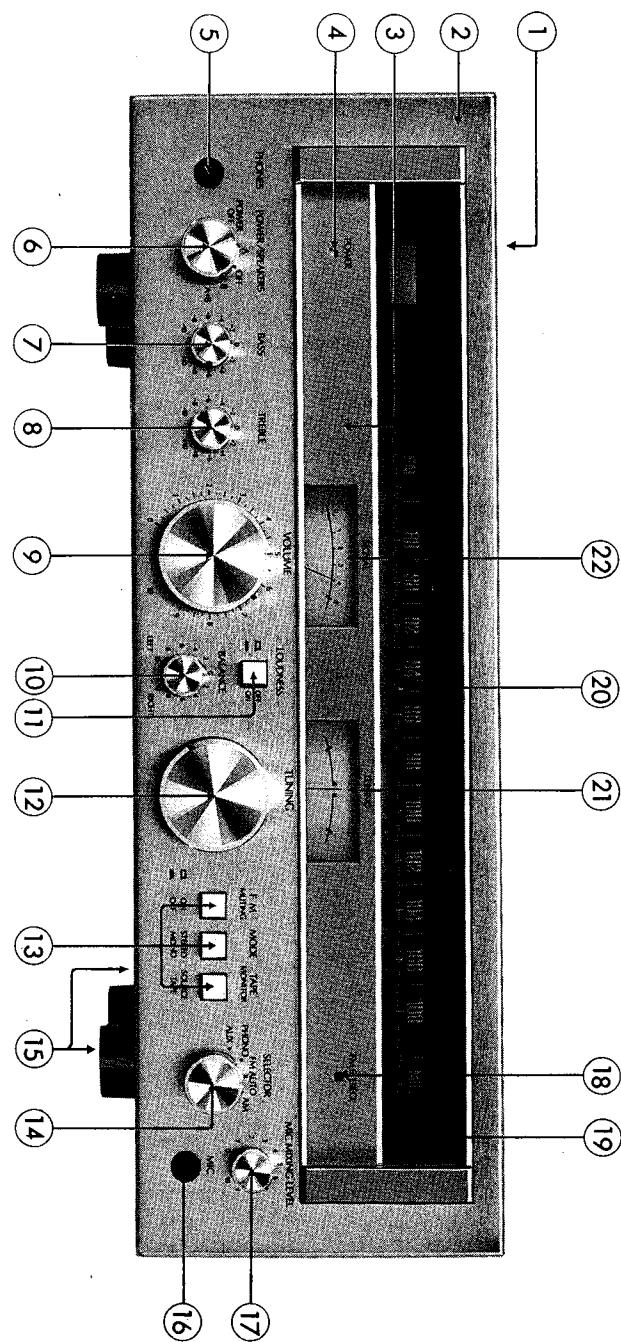
1. Take off the two panels and one nut for master volume.
2. Then, unsolder six points installing the master volume on pattern side of F-2711 printed board.

Fig. 3 Level Volume
(Bottom side) Soldering points



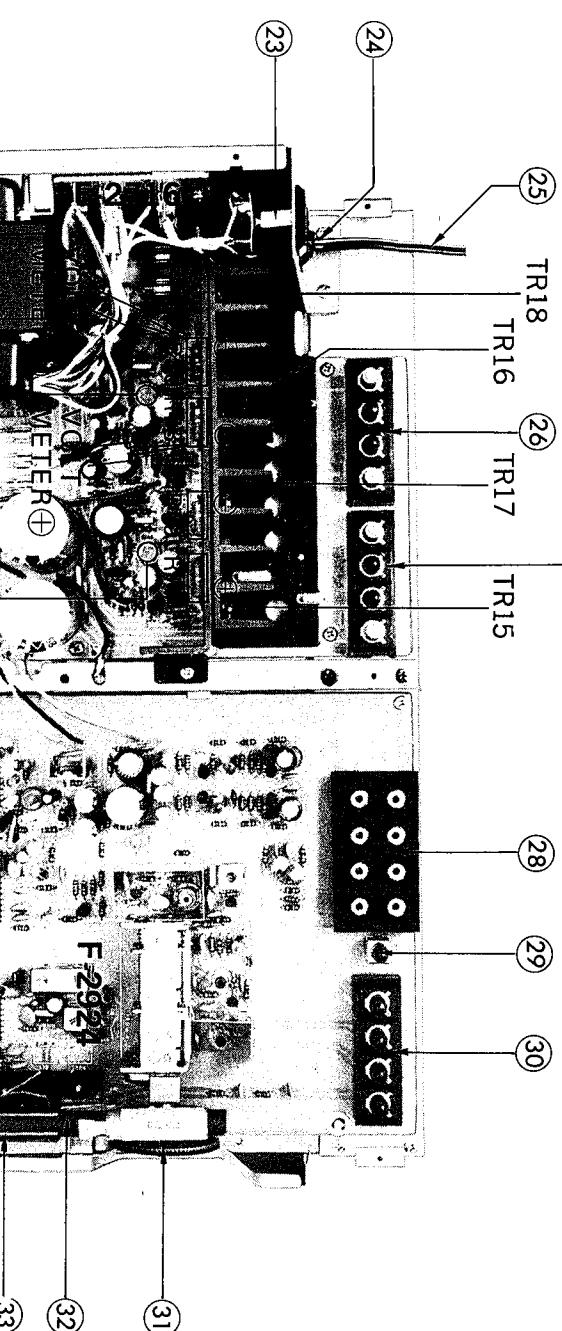
6. OTHER PARTS

6-1. Front View



6-2. Top View

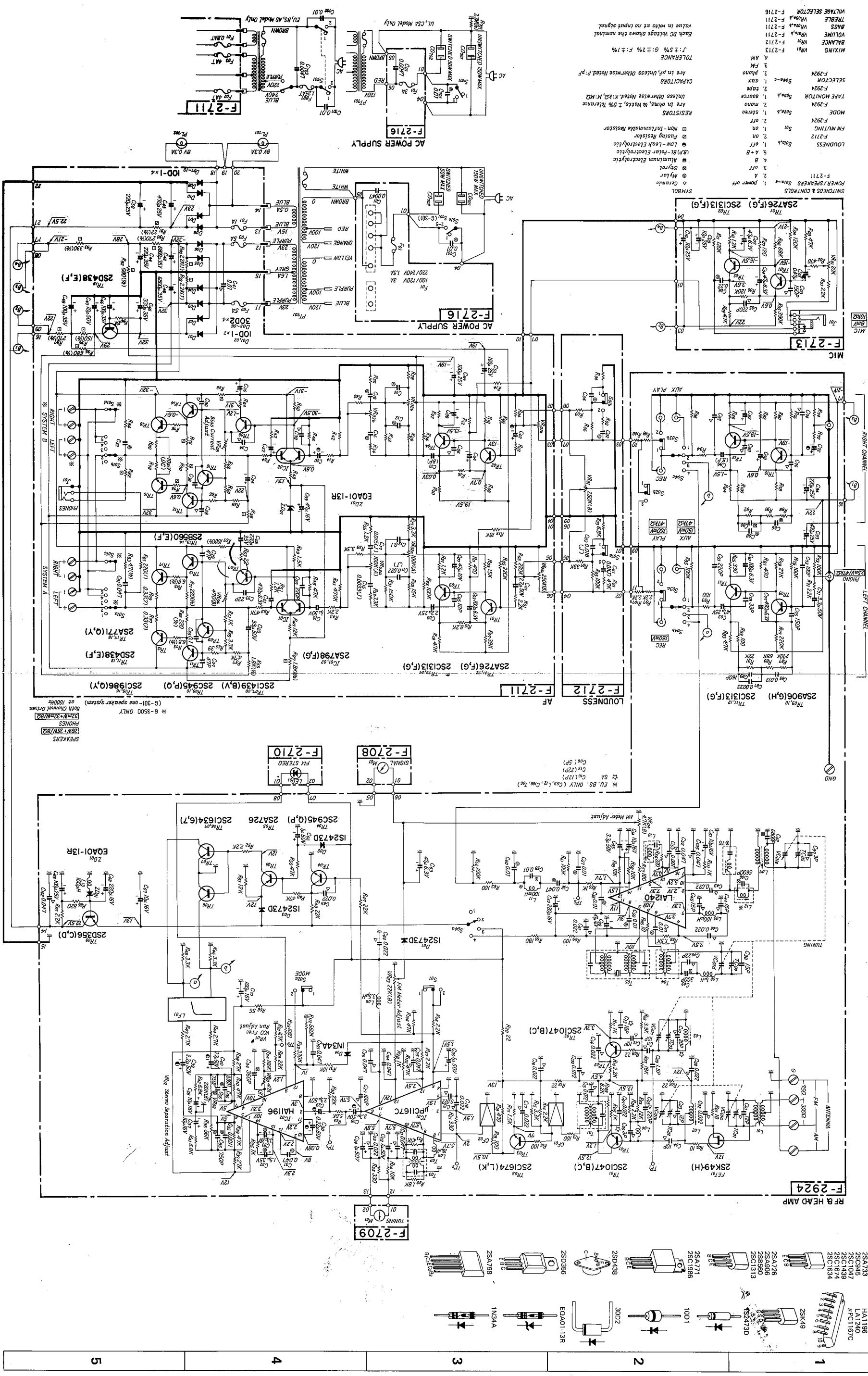
G-3500/4500/401 Only



Parts No.	Stock No.	Description
1	{ 5727150 5226690	Wood Bonnet W.B. Type Bushing
2	{ 7007631 7008001	Front Panel ASS'Y (G-3500/4500) Front Panel ASS'Y (G-301)
3	7008011	Front Panel ASS'Y (G-401)
4	5305690	Inside Panel
5	5426410	Power Illuminator Bar
6	2430320	Headphone Jack Socket (G-3500/4500/401)
5	{ 2430340 5319142	Headphone Jack Socket (G-301) Power & Speakers Switch Knob
6	1190530	Power Rotary Switch (G-301)
5	{ 5236470 1101850	Power & Speaker Rotary Switch (G-3500/4500/401)
6	5236470	M9 x 7, spacer nut
7	{ 5319133 1015320, 1	BASS Volume Knob 100kΩ x 2, Bass Volume
8	{ 5319133 1015300, 1	Treble Volume Knob 100kΩ x 2, Treble Volume
9	{ 5318981 1011130, 1	Volume Knob 250kΩ (B) x 2, Volume
10	{ 5319133 1005350, 1	Balance Volume Knob 250kΩ (B) x 2, Volume
11	{ 5326690 1131490, 1	Loudness Switch Loudness Switch
12	5318972	Tuning Knob
13	{ 5326690 1131060, 1	Knob, tape monitor switch Tape Monitor Switch
14	{ 5319142 1101840	Selector Switch Knob Selector Switch
15	5517250	Mg x 7, spacer nut
16	2430370	Bottom Plate
17	{ 5319133 1005340, 1	Microphone Jack Socket 20kΩ (A) Mic Mixing Volume L.E.D., FM Stereo Indicator
18	{ 0319060 5229180	L.E.D. Holder Plastic Rivet

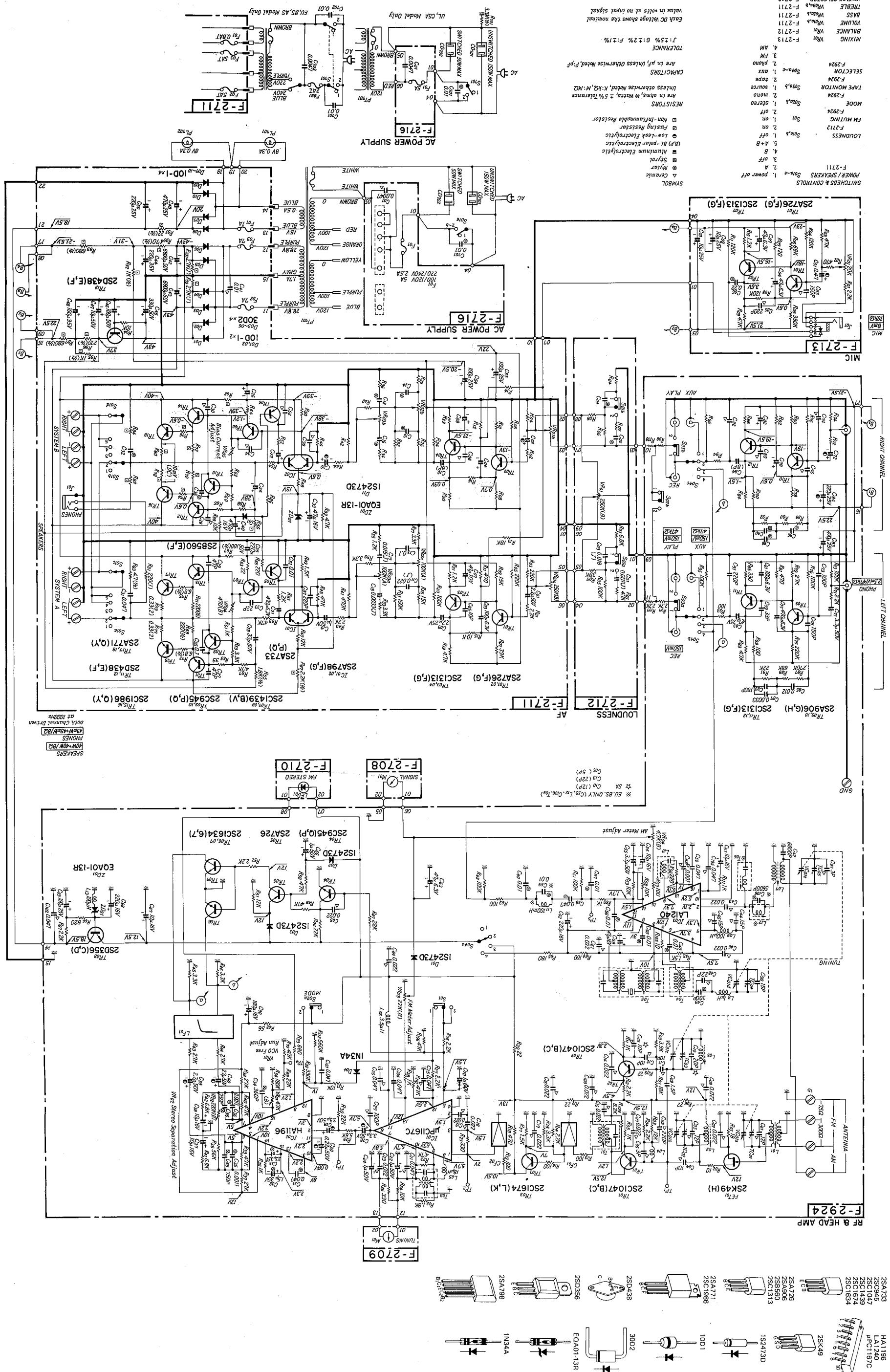
7. SCHEMATIC DIAGRAM

7.1. G3500/301



* Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

Die Veränderungen, die dem technischen Fortschreiten dienen, bleiben vorbehalt.



8. THREADING OF DIAL CORD

- * If a dial cord is cut off or slips, replace it by following procedures.
- * As this unit uses 0.5 mm ϕ cord, please replace it with the same type certainly.
- * The length of dial cord is approximately 160 cm (65.3 inch).



Fig. 2

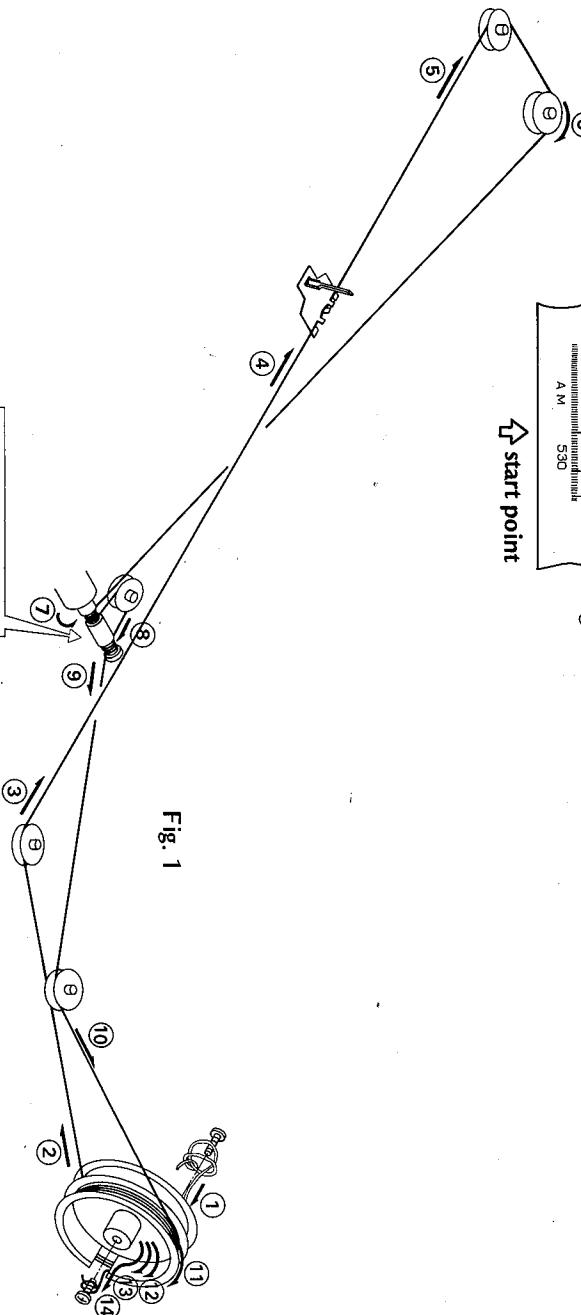


Fig. 1

8-1. Threading of Dial Cord

Thread the dial cord in numerical order from 1 to 14 as Fig. 1.
* Close the variable capacitor completely (Maximum Capacitance).

- 1) Close the variable capacitor completely.
- 2) Set the dial pointer to start point on dial scale as Fig. 2.
- * Confirm that the dial pointer runs smoothly on the dial scale by turning the turning shaft.

8-2. Attachment of Dial Pointer

- 1) Close the variable capacitor completely.
- 2) Set the dial pointer to start point on dial scale as Fig. 2.
- * Confirm that the dial pointer runs smoothly on the dial scale by turning the turning shaft.

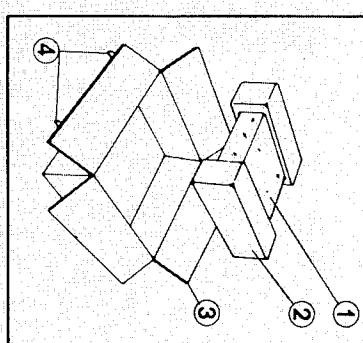
9. PACKING LIST

Parts No.	Stock No.	Description
1	916143	Vinyl Cover
2	9028090	Syrofoam Packing
3	9001500	Carton Case (G-3500)
9001410	9001490	Carton Case (G-301)
9001400	9001400	Carton Case (G-4500)
4	5996080	Carton Case (G-401)
		Curt Stopper

10. ACCESSORY PARTS LIST

Stock No.	Description
9204330	Operating Instructions (G-3500/4500)
9204280	Operating Instructions (G-301)
9237860	Schematic Diagram (G-3500/301)
9237950	Schematic Diagram (G-4500/401)
3820100	FM Antenna

MEMO



Sansui

SANSUI ELECTRONICS CORPORATION : 55-11 Queens Blvd., Woodside, N.Y. 11377 U.S.A.

333 West Alondra Blvd, Gardena, California 90247 U.S.A.

3036 Keeaumoku St., Honolulu, Hawaii 96819 U.S.A.

SANSUI AUDIO EUROPE N.V. : North Trade Bldg. (9th floor) Noorderlaan 133-Bus 1/2030 Antwerp, Belgium

SANSUI AUDIO S.A. : Arabella center, 6 Frankfurt, Lyoner Strasse 44-48, West Germany

SANSUI ELECTRIC COMPANY LTD. : 14-1, Izumi 2-chome, Sugimachi-ku, Tokyo 108 Japan PHONE: (03) 323-1111/TELE: 232-2076