

SERVICE MANUAL

PURE POWER DC STEREO RECEIVER

SANSUI G-9700/971
G-8700DB/871DB



SANSUI ELECTRIC CO., LTD.

G-9700/971
G-8700DB/871DB

SPECIFICATIONS

● G-9700/971

AUDIO SECTION

Power output

Min. RMS, both channels driven, from 20 to 20,000 Hz with
no more than 0.02 % total harmonic distortion,
200 watts per channel into 8 ohms

Load impedance

8 ohms

Total harmonic distortion

less than 0.02 % at or below rated
min. RMS power output

Intermodulation distortion (10 Hz, 17 kHz, 4:1 SMTPE
method) less than 0.02 % at rated power
output

Rise time

1.4 μ sec

Slew rate

80 V/sec

Frequency response (at 1 watt)

Overall (from TAPE/AUX)

5 to 20,000 Hz

+0.5 dB, -2.0 dB

Power amplifier

DC to 200 kHz,

+0 dB, -0.5 dB

RIAA curve deviation (PHONO, 20 Hz to 20 kHz)

+0.2 dB, -0.2 dB

Damping factor (20 Hz to 20 kHz, both channels driven)

60 min. 8 ohms

Input sensitivity and impedance (at 1 kHz)

PHONO 1, 2 2.5 mV/1 k Ω min.

(Max. input capability: 280 mV at 1 kHz, less than
0.1 % total harmonic distortion)

MIC 6 mV/75 k Ω min.

TAPE 1, 2 PLAY, TAPE/AUX

150 mV/17 k Ω min.

Output level (at 1 kHz)

TAPE 1, 2 REC. 150 mV

Hum and noise (short-circuit, A-network)

PHONO 1, 2 75 dB

TAPE 1, 2 PLAY, TAPE/AUX

95 dB

Channel separation (at 1 kHz)

PHONO 1, 2 60 dB

TAPE 1, 2 PLAY, TAPE/AUX

70 dB

Controls

BASS $\pm$ 10 dB at 50 Hz

MIDRANGE $\pm$ 5 dB at 1.5 kHz

TREBLE $\pm$ 10 dB at 10 kHz

SUBSONIC FILTER

$\pm$ 3 dB at 16 Hz (6 dB/oct)

HIGH FILTER $\pm$ 3 dB at 3 kHz (6 dB/oct)

LOUDNESS (VOLUME control) $\pm$ 30 dB position

$\pm$ 8 dB at 10 Hz

6 dB at 10 kHz

AUDIO MUTING

$\pm$ 20 dB

FM SECTION

Tuning range

88 to 108 MHz

Usable sensitivity

Mono IHF 9.8 dBf (1.7 μ V)

Stereo IHF 17 dBf

50 dB quieting sensitivity

Mono 12.5 dBf

Stereo 35 dBf

Signal to noise ratio (at 65 dBf)

Mono 82 dB

Stereo 76 dB

Distortion (at 65 dBf)

Mono less than 0.05 % at 100 Hz

less than 0.05 % at 1,000 Hz

less than 0.08 % at 6,000 Hz

Stereo less than 0.1 % at 100 Hz

less than 0.07 % at 1,000 Hz

less than 0.08 % at 6,000 Hz

Alternate channel selectivity (at 400 kHz)

WIDE 60 dB

NARROW 90 dB

Capture ratio 1.0 dB

Image response ratio 90 dB

Spurious response ratio

95 dB

IF response ratio

95 dB

Stereo separation 40 dB at 100 Hz

45 dB at 1,000 Hz

55 dB at 10,000 Hz

30 dB from 20 to 15,000 Hz

Frequency response

30 to 15,000 Hz

+0.5 dB, -1.5 dB

Antenna input impedance

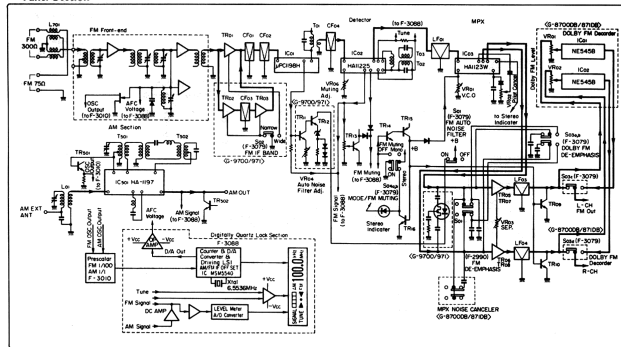
300 ohms balanced

75 ohms unbalanced

to be continued

- * Design and specifications subject to changes without notice for improvements.
- * In order to simplify the explanation illustrations may sometimes differ from the originals.
- * Dolby is a trademark of Dolby Laboratories, Inc.

- **Tuner Section**



2. ADJUSTMENTS

2-1. Driver Circuit Board Adjustments (See Top View on Page 13 & 14)

Note: 1. Master Volume Minimum
2. Room Temperature . . . 18°C ~ 28°C (65°F ~ 83°F)
3. For Adjustment, run the unit for more than 5 minutes after the power is switched on.

STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	DC OV Adj. L-CH	Speaker terminal (L-CH)	VR01 (L-CH) F-3074	DC OV ±5 mV	Before turning ON power switch, set VR to center position.
2.	DC OV Adj. R-CH	Speaker terminal (R-CH)	VR01 (R-CH) F-3074	DC OV ±5 mV	Before turning ON power switch, set VR to center position.
3.	BLAS Current Adj. L-CH	Between emitter terminals of TR02 and TR03 on F-3114 (As shown in Figs. 4-1 & 4-3 on page 13 & 14)	VR03 (L-CH) F-3074	DC ±5 mV	Before turning ON power switch, turn VR03 fully counterclockwise. This will current adjustment converts current value into voltage by Ohms law.
4.	BLAS Current Adj. R-CH	Between emitter terminals of TR02 and TR03 on F-3115 (As shown in Figs. 4-1 & 4-3 on page 13 & 14)	VR03 (R-CH) F-3074	DC ±5 mV	Before turning ON power switch, turn VR03 fully counterclockwise. This will current adjustment converts current value into voltage by Ohms law.

2-2. Power Meter Adjustment (See Top View on Page 13 & 14)

Note: 1. For adjustment, run the unit for more than 4 minutes.

2. Input AUX
3. Input Signal Sine Wave (1 kHz)

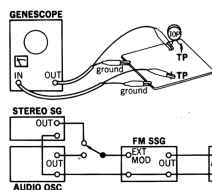
4. Speaker load 8Ω
5. Meter Range X1
6. Master Volume Maximum

STEP	MEASURE OUTPUT	OUTPUT LEVEL	ADJUST	ADJUST FOR
1.	Speaker Terminal L-CH AC Volt Meter	14.1V (25W)	VR01 F-3082	Make every 10 lamps lighting
2.	Speaker Terminal R-CH AC Volt meter	Same as above	VR02 F-3082	

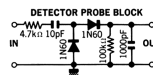
<G-8700DB/871DB Only>				
STEP	MEASURE OUTPUT	OUTPUT LEVEL	ADJUST	ADJUST FOR
1.	Speaker Terminal L-CH AC Volt Meter	12.6V (20W)	VR01 F-3082	Make every 10 lamps lighting
2.	Speaker Terminal R-CH AC Volt Meter	Same as above	VR02 F-3082	

2-3. FM Adjustment (See Top View on Page 13 & 14)

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



3. Connection ... Connect the output of genescope to TP through 100 pF ceramic capacitor.
4. Confirm the voltage, DC 12.5 ~ 13.5V at TP44 on F-2990. If not, set the voltage at TP44 to DC 13V by VR601 on F-3071.



(1) FM IF, RF Adjustment and Dial Calibration

* Before making adjustments of steps 2 ~ 5, run the unit for more than 2 minutes and make the dial pointer go round on the dial scale at once by tuning knob.

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
		FROM	TO				
1.	IF Coil	Output 50 ~ 60 dB Genescope	TC03 (Front-end)	Lead wire of R32 (Point B.) Use Detector Probe	T01 (Front-end) T01 (F-2990)	Max. IF waveform	
2.	Discriminator Coil In case of using Genescope	Output 80 dB Genescope	TC03 (Front-end)	TP52 (F-2990)	T02, T03 (F-2990)	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 OUT L or R-CH Dist Meter VTVM & Scope	T02, T03 (F-2990) T01 (Front-end) T01 (F-2990)	Min. THD	
3.	Tune Indicator Adj.	Receive the nearest FM station		Between Terminal 15 & 17 of F-3088 DC Volt Meter	T02 (F-2990)	DC 0V ± 5 mV	 →15 (F-3088) →17 (F-3088)
4.	AFC Voltage Adj.			25 Terminal of F-3088 DC Volt Meter	VR03 (F-3088)	DC 7V ± 0.2V	Note: Steps 4 & 5 should be performed after grounding the collector of TR15 on F-3088
5.	98 MHz Dial Calibration	No Input		Dial Pointer	Tuning knob	98 MHz	
		Same as above		Indication of Display unit	TC04 (Front-end)	98 MHz	
6.	98 MHz RF Adj.	98 MHz ANT Input Minimum value with sine wave 1000 Hz (100% MOD) FM SSG	ANT terminal 300Ω	REC OUT L or R-CH VTVM & Scope	TC01, TC02 TC03 (Front-end)	Max. Output	
7.	Signal Indicator Adj.	98 MHz ANT Input 65 dBf (59.8 dB) 1000 Hz (100% MOD) FM SSG	Same as above	Signal indicator lamp	VR04 (F-3088)	Make every 8 lamps lighting	
		No ANT Input		Same as above	VR04 (F-3088)	Make only one lamp lighting	

Note: Confirm the Dial Calibration on the frequencies of 90 MHz & 106 MHz in step 5.

(2) FM STEREO Adjustment

Note: 1. Selector FM AUTO 2. FM MODE Switch AUTO

STEP	SUBJECT	FEED SIGNAL FROM	TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	PLL VCO Adj.	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	ANT terminal 300Ω	Stereo indicator	VR01 (F-2990)	Light indicator	Adjust the VR within center of lighting level.
	PLL VCO Adj. In case of using Freq. Counter	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG (No MOD)	Same as above	TP53 (F-2990) Use Freq. counter	VR01 (F-2990)	76 kHz ±150 Hz	
2.	PILOT cancel Adj.	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD)	Same as above	REC OUT L or R-CH VTVM & Scope	VR02 (F-2990)	Min. Output	Confirm Both Channel
	PILOT cancel Adj. In case of Dist. meter	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) L-CH or R-CH MODE 1 kHz + Pilot (100% MOD)	Same as above	Same as above	VR02 (F-2990)	Min. Distortion	
3.	Separation	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) R Mode 1 kHz + Pilot (100% MOD) STEREO SG	Same as above	REC OUT L-CH VTVM & Scope	VR03 (F-2990)	OUT -45 dB	Confirm separation L-CH → R-CH (-45 dB) Auto Noise Filter or MPX Noise Canceler Switch ... OFF
4.	Muting level	98 MHz ANT Input 0 dBf (-5.2 dB) FM SSG Pilot 19 kHz (9% MOD) SUB 1 kHz + Pilot (100% MOD) STEREO SG	Same as above	REC OUT L or R-CH VTVM & Scope	VR06 (F-2990)	Muting level 0 dBf (-5.2 dB)	Turn VR05 fully clockwise, FM MUTING Switch ... ON
		98 MHz ANT Input 15 dBf (9.8 dB) FM SSG Pilot 19 kHz (9% MOD) SUB 1 kHz + Pilot (100% MOD) STEREO SG	Same as above	Same as above	VR05 (F-2990)	Muting level 15 dBf (9.8 dB)	FM MUTING Switch ... ON
5.	Auto Noise Filter Adj. (G-9700/ 971 only)	98 MHz ANT Input 45 dBf (39.8 dB) 10 kHz (100% MOD) FM SSG	Same as above	REC OUT L or R-CH VTVM & Scope		Read the indica- tion on VTVM	Auto Noise Filter Switch ... OFF
		Same as above	Same as above	Same as above	VR04 (F-2990)	-3 dB from the indication above	Auto Noise Filter Switch ... ON
6.	DOLBY FM Volume (G-8700DB/ 871DB only)	98 MHz ANT Input 65 dBf (59.8 dB) 100 Hz (100% MOD) FM SSG	Same as above	REC OUT L-CH VTVM	VR01 (F-2688)	Output level 560 mV	DOLBY FM DE- CODER Switch ... ON Use VTVM (100kΩ/V)
				REC OUT R-CH VTVM	VR02 (F-2688)		

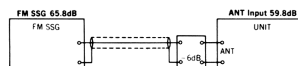
• NEW MEASUREMENT FOR FM.

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 former measurement, IHFM-T-100 is designated together too.

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

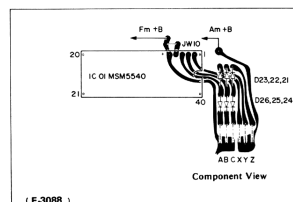
	modulation frequency	modulation mode	modulation factor
FM MONO	1000 Hz		100%
FM STEREO	1000 Hz	SUB	Pilot 9% Pilot + SUB 100%

• The relation between the standard input 65 dBf of IHFM-T-200 and the former indication "dB" is shown below.



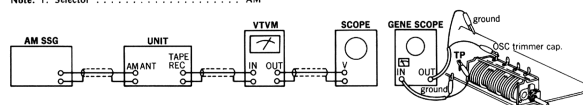
- Selection of Intermediate Frequencies (FM) (Refer to parts location F-3088 on page 9)
- The digital locking point differs with the frequency rank of the ceramic filter used in the F-2990. When the central frequency (shown by a color) of the ceramic filter is changed, the following connection must be made by using jumper wires:
- Unify the color marks of the FM ceramic filters (CF01 ~ CF05) on the F-2990 with the same color.
 - Select the joints A, B, and C of F-3088 according to color marks as shown in the following table:

Colouring	Intermediate Frequency	Connecting Position of Jumper wire on F-3088			Connecting Position of Dote on F-3088			Bode Total Qty
		A	B	C	D06	D25	D24	
Black	10.64MHz			●			●	1
Brown	10.66MHz	●			1		●	1
Blue	10.68MHz	●	●		2		●	2
Red	10.70MHz	●			1	●		1
Orange	10.72MHz	●		●	2	●	●	2
Gray	10.74MHz	●	●		2	●	●	2
White	10.76MHz	●	●	●	3	●	●	3



2-4. AM IF Adjustment and Dial Calibration (See Top View on Page 13 & 14)

Note: 1. Selector AM

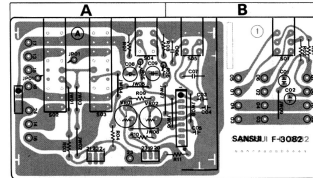


STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
		FROM	TO				
1.	IF Coil	Genescope Output 70 dB	TC06 (Front-end)	TP11 F-2990	T502, T504 (F-2990)	Max. Output	
2.	600 kHz Dial Calibration	No Input		Dial Pointer	Tuning knob	600 kHz	
		Same as above		Indication of digital display unit	T501 (F-2990)	600 kHz	
	1400 kHz Dial Calibration	Same as above		Dial Pointer	Tuning knob	1400 kHz	
		Same as above		Indication of digital display unit	TC06 (Front-end)	1400 kHz	
3.	600 kHz RF Adj.	600 kHz ANT Input 50 dB 400 Hz (MOD 30%) AM SSG	ANT terminal	REC OUT L or R-CH VTVM & Scope	Bar Antenna L01 (F-3048)	Max. Output	
	1400 kHz RF Adj.	1400 kHz ANT Input 50 dB 400 Hz (MOD 30%) AM SSG	Same as above	Same as above	TC05 (Front-end)	Same as above	
4.	Signal Indicator Adj.	1000 kHz ANT Input 80 dB 400 Hz (MOD 30%) AM SSG	Same as above	Signal indicator lamp	VR02 (F-3088)	Make every 8 lamps lighting	
		No Input	Same as above	Same as above	VR02 (F-2088)	Make only one lamp lighting	

3. PARTS LOCATION & PARTS LIST

3-1. F-3082 Power Indicator Circuit Board (Stock No. 7598411 = G-9700/971) (Stock No. 7598591 = G-8700DB/871DB)

Conductor Side



• 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 Sansul Manual.

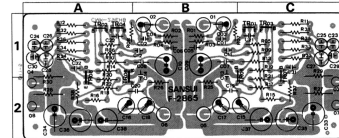
Parts List

Parts No.	Stock No.	Description	Position
*IC			
IC 01	0301000	TA7318P	
C 01, 02	0620221	220pF 50V P.C.	B
R 03, 04	0210273	27kΩ 1/2W N.I.R.	A
VR01, 02	1036100	3.3kΩ (B) Volume, Power Indicator Level Adj.	A
S 01 ~ 05	1132190	Push Switch: A: B, Tone, Speaker A, B, Power Meter, Meter Pump	A, B

Note: Parts marked X, Y or without marks indicate as follow:
1. Parts marked X in parts list for G-9700/971 Only
2. Parts marked Y in parts list for G-8700DB/871DB Only
3. Parts without marks in parts list . . . for both G-9700/971 and G-8700DB/871DB

3-2. F-2865 Equalizer Circuit Board (Stock No. 7551601 = G-9700/971) (Stock No. 7551611 = G-8700DB/871DB)

Conductor Side



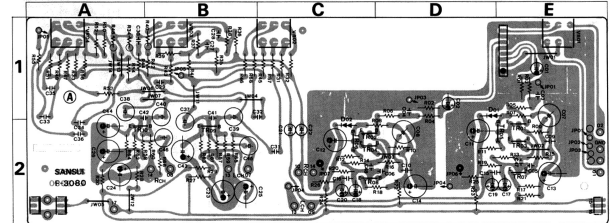
Parts No.	Stock No.	Description	Position
C 23, 24	0625122	1200pF 50WV P.C.	1C, 1A
C 25, 26	0620361	360pF 50V P.C.	X 1C, 1A
C 27, 28	0620362	500pF 50V P.C.	1C, 1A
C 29, 30	0620101	100pF 50V P.C.	Y 1C, 1A
	0622121	120pF 125V P.C.	Y 1C, 1A
R 11, 12	0230101	100Ω 1/4W M.R.	1C, 1A
R 13, 14	0110062	7kΩ 1/4W M.R.	1C, 1A
R 23, 24	0230102	5.6kΩ 1/2W N.I.R.	1C, 1A
R 25, 26	0210270	27Ω 1/2W N.I.R.	X 2C, 2A
R 27	0210101	100Ω 1/2W N.I.R.	Y
R 28, 30	0210270	27Ω 1/2W N.I.R.	Y
R 29	0210101	100Ω 1/2W N.I.R.	Y 1C1, 2A
R 31, 32	0230473	47kΩ 1/4W M.R.	Y 1C, 1A
R 33, 34	0230223	22kΩ 1/4W M.R.	Y 1C, 1A
R 35, 36	0230473	47kΩ 1/4W M.R.	Y 1C, 1A
R 37, 38	0230664	560kΩ 1/4W M.R.	X 1C, 1A
R 39, 40	0230274	270kΩ 1/4W M.R.	Y 1C, 1A

Parts List

Parts No.	Stock No.	Description	Position
*Transistor			
TR01, 02	0300000, 1	2SA3005 G, H	1C, 1A
TR03, 04	0300000, 1	2SA3005 G, H	X 1C, 1A
TR05, 06	0300650, 1	2SC1775 E, F	X 1, 2B 1, 2A
TR07, 08	0300650, 1	2SC1775 E, F	X 1, 2C, 1, 2A
C 05, 06	0620101	100pF 50V P.C.	X 1B

3-3. F-3080 Tone Control Circuit Board (Stock No. 7563011 = G-9700/971) (Stock No. 7563041 = G-8700DB/871DB)

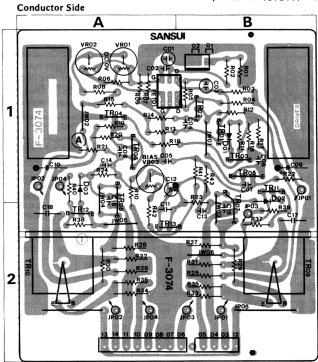
Conductor Side



Parts List

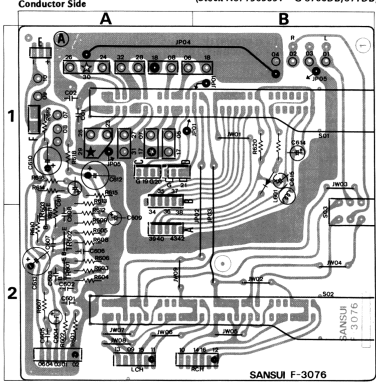
Parts No.	Stock No.	Description	Position
*Transistor			
TR01, 02	0300070, 1	2SC1313 F, G	2C, 2C
TR03, 04	0300740, 1	2SC1845 F, E	2C, 2C
TR05, 06	0300740, 1	2SC1845 F, E	2D, E, 2C
TR07, 08	0301000, 1	2SA4807 F, E	1C, 2C, 2C
TR09, 10	0300070, 1	2SC1313 F, G	2B, 2A
*Varistor			
D 01, 02	0540120	VO1212	10, 2C
	0340150	MV12	
R 19, 20	0210362	3.6kΩ 1/2W N.I.R.	10, 2C
VR01	1015340, 1	250kΩ (M) x 2	1E
VR02	1015200, 1	Basic Volume 100kΩ (B) x 2	1C
VR03	1015200, 1	Treble Volume 100kΩ (B) x 2	1B
VR04	1015200, 1	Midrange Volume 100kΩ (B) x 2	1A
		Basic Volume	

3-4. F-3074 Driver Amp. Circuit Board (Stock No. 7572421 = G-9700/971)
(Stock No. 7572441 = G-8700DB/871DB)



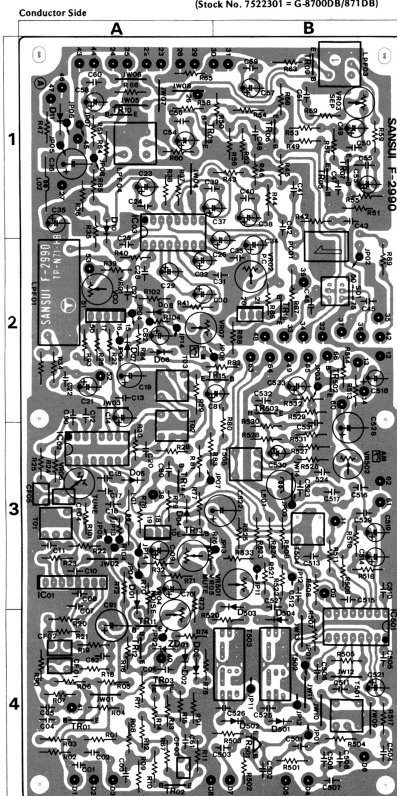
Parts No.	Stock No.	Description	Position
*Transistor			
TR01	0306550.1	2SC1775 E, F	1B
TR02	0306550.1	2SC1775 E, F	1B
TR03	0306550.1	2SA872 D, E	1B
TR04	0306550.1	2SA872 D, E	1A
TR05	0301030.1	2SA836 B, V	1B
TR06	0306550.1	2SC2071 B, V	1A
TR07	0306550.1	2SC2071 B, V	1, 2B
TR08	0301030.1	2SA836 B, V	1, 2A
TR09	0306550.1	2SC2788B L8, O, Y	2B
TR10	0301030.1	2SA836B L8, O, Y	2A
TR13	0306401.2	2SC1904 B, V	2A
*FET			
FE101	0310251.2	2SK97 2, 3	1A
*Diode			
D 01	0311180	15Z473D	1B
	0311180	15158B	1B
C 01	0620101	100µF 50V P.C.	1A
C 03	0620101	100µF 50V P.C.	1B
C 17	0652223	22000µF 500V C.C.	2B
C 18	0652223	22000µF 500V C.C.	2A
R 03	0230332	3.3kΩ 1/8W M.F.	1B
R 04	0230332	3.3kΩ 1/8W M.F.	1B
R 08	0210382	3.3kΩ 1/2W N.I.R.	1A
R 17	0191151	150Ω 1/8W F.R.	1B
R 20	0191151	150Ω 1/8W F.R.	1A
R 23	0210361	300Ω 1/2W N.I.R.	1, 2B
R 24	0210361	300Ω 1/2W N.I.R.	1A
R 25	0210470	47Ω 1/2W N.I.R.	2B
R 27	0210470	47Ω 1/2W N.I.R.	2A
R 27	0210581	560Ω 1/2W N.I.R.	2B
R 28	0210581	560Ω 1/2W N.I.R.	2A
R 29	0210479	4.7Ω 1/2W N.I.R.	2B
R 30	0210479	4.7Ω 1/2W N.I.R.	2A
R 31	0210259	7.5Ω 1/2W N.I.R.	2B
R 32	0210259	7.5Ω 1/2W N.I.R.	2A
R 33	0210480	56Ω 1W N.I.R.	2B
R 34	0210480	56Ω 1W N.I.R.	2A
R 35	0210479	4.7Ω 1/2W N.I.R.	2B
R 36	0210479	4.7Ω 1/2W N.I.R.	2A
VR01	1033570	100Ω (B) Volume, (2C-2V Adj.)	1A
VR03	1033600	1kΩ (B) Volume, (Blue current Adj.)	1A

3-5. F-3076 Mic Amp Circuit Board (Stock No. 7563001 = G-9700/971)
(Stock No. 7563031 = G-8700DB/871DB)



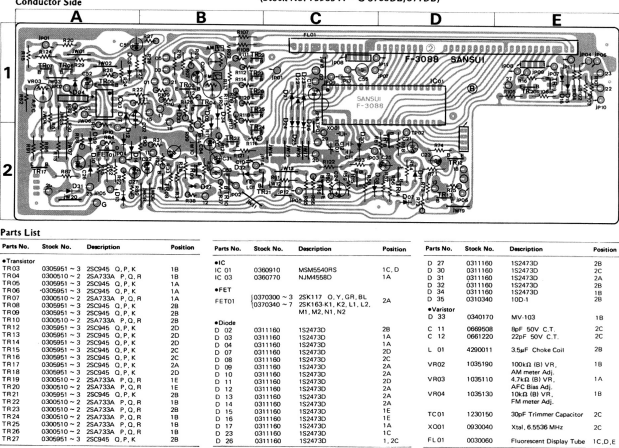
Parts No.	Stock No.	Description	Position
*Transistor			
TR001	0306550.1	2SC1775 E, F	2A
TR002	0301030.1	2SA836 F, E	2A
TR003	0306550.1	2SC1775 E, F	2A
C 008	0620581	680µF 50V P.C.	2A
L 001	4900000	2.2mH Inductor	1B
S 01	1190750	Selector Switch	1A, B
S 02	1190740	Tape Monitor Switch	2A, B
S 03	1131590	Source Monitor Switch	1, 2B

3-6. F-2990 Tuner Circuit Board (Stock No. 7522291 = G-9700/971)
(Stock No. 7522301 = G-870008/87108)

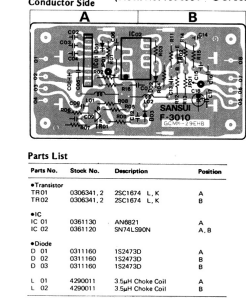


Parts No.	Stock No.	Description	Position
*Transistor			
TR01	0006340-2	2SC1674 M.L.K.	4A
TR02	0006340-2	2SC1674 M.L.K.	4A
TR03	0006340-2	2SC1674 M.L.K.	4A
TR06, 08	0006340-1	2SC1674 F.G.	1B
TR07, 08	0006340-2	2SC1674 F.G.H	1B 1A
TR09, 10	0006340-2	2SC345 Q.P.K.	1B 1A
TR11	0006340-2	2SC345 Q.P.K.	4A
TR12	0006340-2	2SC345 Q.P.K.	4A
TR13	0006340-2	2SC345 Q.P.K.	3A
TR14	0006340-2	2SC345 Q.P.K.	3A
TR15	0006340-2	2SC345 Q.P.K.	2B
TR16	0006340-2	2SC345 Q.P.K.	2B
TR001	0006340-2	2SC1674 M.L.K.	4B
TR902	0006340-2	2SC345 Q.P.K.	2B
*IC			
IC 01	0361240	μPC118BH	3A
IC 02	0300330	HA11225	3A
IC 03	0300360	HA11225W	1A
IC 001	0300360	HA1197	4B
*Diode			
D 01	0311180	1S24730	X
D 04	0311180	1S24730	3A
D 05	0311180	1S24730	3A
D 06	0311180	1S24730	2A
D 07	0311180	1S24730	2A
D 10	0311180	1S24730	1A
D 11	0311180	1S24730	1A
*Variable			
D 02	0340120	VD1212	X
D 03	0340120	MV 12	X
D 03	0340120	VD1212	X
D 03	0340120	MV 12	X
*Resistor			
Z001	0316360	RD6 2E B	4A
PC 01	0620080	PR13 C35-911	X
C 26	0573328	0.33μF 35V Ta.C.	2B
C 27	0620102	1000pF 50V P.C.	2A
C 28	0620222	2200pF 50V P.C.	2A
C 29	0573418	0.47μF 35V Ta.C.	2A
C 30	0573328	0.33μF 35V Ta.C.	2A
C 32	0573328	0.33μF 35V Ta.C.	2A
C 34	0573328	0.33μF 35V Ta.C.	2A
C 35	0611150	150pF 50V C.T.	4A
C 508	0625391	390pF 50V P.C.	4B
C 524	0620271	270pF 50V P.C.	2B
R 29	0231222	2.2kΩ 1/8W M.R.	2A
R 87	0211221	220Ω 1W N.I.R.	2B
L 01	4900100	3.3μH Peaking Coil	3A
L 02	4900100	3.3μH Peaking Coil	1A
L 501	4900220	Inductor, 10μH	3B
T 01	4236030	IF Coil, 10.7 MHz	3A
T 02	4236030	FM Detector Coil	3A
T 03	4236040	FM Detector Coil	2A
T 501	4230110	IFC Coil	4B
T 502	4230080	AM IF Coil, 455 kHz	4B
T 504	4230020	AM IF Coil, 455 kHz	3B
LF 01	0810860	Low Pass Filter	2A
LF 03, 04	0810830	Low Pass Filter	1B 1A
VR01	1034240	3.3kΩ 10V Volume	3A
VR02	1036190	VCS Free Run Freq. Adj.	2B
VR03	1036080	10kΩ 10V Volume	1B
VR04	1036110	2.2kΩ 10V Volume	4A
VR05	1036130	10kΩ 10V Volume	3A
VR06	1036150	2.2kΩ 10V Volume	3A
S 01	1110270	DE EMPHASIS Switch	2B
CF			
	0690050	Ceramic Filter Assy	X
	0690030	CF01, CF02, CF04, CF05	X
		Ceramic Filter Assy	X
		CF01 - CF04	X

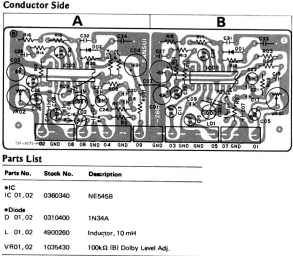
3-7. F-3088 Digitally Display Circuit Board (Stock No. 7598351 = G-9700/971)
(Stock No. 7598541 = G-8700DB/871DB)



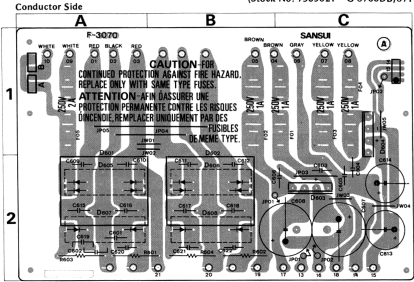
3-8. F-3010 Pre Scaler Circuit Board (Stock No. 7598361 = G-9700/971)
(Stock No. 7598551 = G-8700DB/871DB)



3-9. F-2688 Dolby NR Circuit Board (Stock No. 7660171 = G-8700DB/871DB)



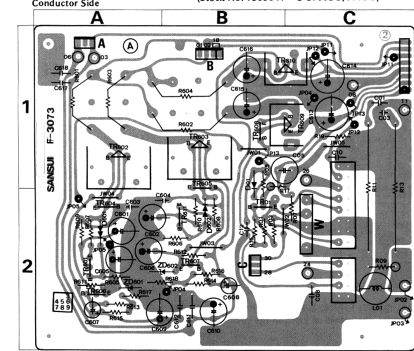
3-10. F-3070 Power Supply Circuit Board (Stock No. 7503591 = G-9700/971)
(Stock No. 7503621 = G-87000B/8710B)



Parts List

Part No.	Stock No.	Description	Position
*Diode			
D 801	0311610	SS-7	2A
D 802	0311660	SS-78	3B
D 803	0311700	RB-152	2C
D 804	0311700	RB-152	1C
C			
C 601	0655223	22000uf 500V C.C.	2A
C 602	0655223	22000uf 500V C.C.	2A
C 603	0655103	10000uf 500V C.C.	2C
C 604	0655103	10000uf 500V C.C.	2C
C 605	0655103	10000uf 500V C.C.	2C
C 606	0655103	10000uf 500V C.C.	2C
C 607	0549207	1000uf 63V E.C.	2C
C 608	0549207	1000uf 63V E.C.	2C
C 609	0655103	10000uf 500V C.C.	2A
C 610	0655103	10000uf 500V C.C.	2A
C 611	0655103	10000uf 500V C.C.	2B
C 612	0655103	10000uf 500V C.C.	2B
R			
R 801	0212822	8.2kΩ 2W N.I.R.	1A
R 802	0212822	8.2kΩ 2W N.I.R.	2B
F			
F 01	0432220	1A 250V AC Fuse	1B, C
F 02	0432220	1A 250V AC Fuse	1B
F 03	0432220	1A 250V AC Fuse	1C
F 04	0432220	1A 250V AC Fuse	1C
F 05	0432220	1 SA 250V AC Fuse	1A

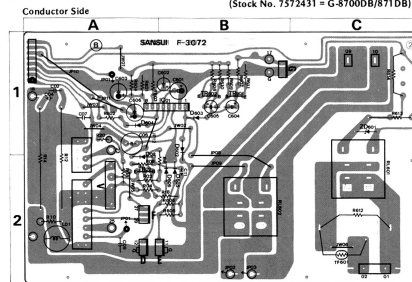
3-11. F-3073 Pre Power Supply (Stock No. 7503611 = G-9700/971)
(Stock No. 7503641 = G-87000B/8710B)



Parts List

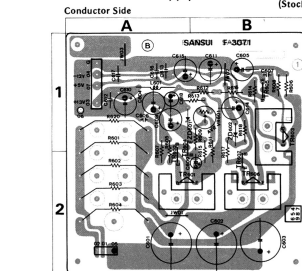
Part No.	Stock No.	Description	Position
*Resistor			
R101	0301030	25A830 S.V.	2B
R102	0304191	25A720 F.G.	2A
R103	0306111	25C097 D.E.	1A
R104	0306111	25C097 D.E.	1B
R105	0306111	25C153 F.G.	2A
R106	0304191	25A720 F.G.	1, 2B
R107	0306111	25C153 F.G.	2A
R108	0306111	25C153 F.G.	2B
R109	0306111	25C153 F.G.	2B
R110	0306111	25C153 F.G.	2B
R111	0306111	25C153 F.G.	2B
*Diode			
D 01	0311160	1524730	1, 2B
D 02	0311160	1524730	1, 2B
*Varistor			
D 001	0340150	V07122	2A
D 002	0340150	V07122	2B
*Zener Diode			
ZD001	0316610	RD245 B	2A
ZD002	0316610	RD245 B	2A, B
R			
R 09	0212209	2.2kΩ 2W N.I.R.	2C
R 11	0205100	10kΩ 5W N.I.R.	1, 2C
R 13	0205100	10kΩ 5W N.I.R.	1, 2C
R 801	0212553	15kΩ 2W N.I.R.	1A
R 802	0212553	15kΩ 2W N.I.R.	1A
R 803	0212553	15kΩ 2W N.I.R.	1A
R 804	0212553	15kΩ 2W N.I.R.	1A
L			
L 01	4390310	1uH Filter Coil	2C

3-12. F-3072 Protector Circuit Board (Stock No. 7572411 = G-9700/971)
(Stock No. 7572431 = G-8700DB/871DB)



Parts No.	Stock No.	Description	Position
*Transistor			
TR601	0301030-1	2SA639 B.V.	2A
TR601	0306950-2	2SC345 R.G.P	1B
TR602	0306950-2	2SC345 R.G.P	1B
*IC			
IC 01	0300900	HA12002	1A, B
*Diode			
D 02	0311180	15C4730	2A
D 602	0310340	10C1	1, 2B
D 603	0311180	15C4730	1B
D 604	0310340	10C1	1A
D 605	0311180	15C4730	2B
D 606	0311180	15C4730	2B
*Zener Diode			
ZD601	0317170	RD-24F (B)	1C
R 10	0202229	2.2K 2W N.I.R.	2A
R 12	0205100	10K 5W N.I.R.	1, 2A
R 14	0205100	10K 5W N.I.R.	1, 2A
R 603	0211152	1.5K 1W N.I.R.	1A
R 607	0210272	2.7K 1/2W N.I.R.	1B
R 612	0208366	3.6K 1W Ca.R.	2C
R 613	0212182	1.8K 1/2W N.I.R.	1C
R 614	0212182	1.8K 1/2W N.I.R.	1C
R 615	0212182	1.8K 1/2W N.I.R.	1C
R 616	0212182	1.8K 1/2W N.I.R.	1C
L 02	4200370	Light Filter Coil	
RL601	1150360	Relay, AC	1, 2C
RL602	1150440	Relay, AC	
RL602	1150410	Relay, Speaker	2B

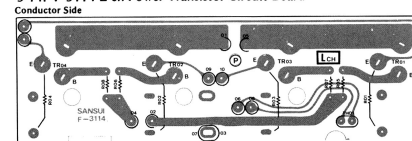
3-13. F-3071 RF Power Supply Circuit Board (Stock No. 7503601 = G-9700/971)
(Stock No. 7503631 = G-8700DB/871DB)



Parts No.	Stock No.	Description	Position
*Transistor			
TR601	0306361-2	2SC134L D.E	2A
TR602	0306950-2	2SC345 R.G.P	2A
TR603	0303441-2	2SB527 D.E	1B
TR604	0306950-2	2SC345 R.G.P	1A
TR605	0306110-2	2SA735A P.O.R	1B
TR606	0306611-2	2SC207 D.E	2B
TR607	0306950-2	2SC345 R.G.P	2B
*Zener Diode			
ZD601	0211630	RD5.2E B	1A, 1B
R 601	0212330	33K 2W N.I.R.	1A
R 602	0212370	27K 2W N.I.R.	1A
R 604	0212370	27K 2W N.I.R.	2A
R 605	0212370	27K 2W N.I.R.	2A
R 620	0212330	33K 2W N.I.R.	1A
R 621	0212370	27K 2W N.I.R.	1A
L 601	4200011	3.5uH	
V601	1030570	1kV (B) Volume AVR	1B

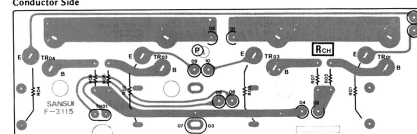
- Note: The circuit boards, F-3114, F-3115, F-3047, F-3048, F-3077, F-3079, F-3081, F-3083, F-3084, F-3085, F-3086, F-3075 & F-3087 are not supplied as the assembled, the individual parts on the circuit board, however, are provided for orders.

3-14. F-3114 L-ch Power Transistor Circuit Board



Parts No.	Stock No.	Description
*Transistor		
TR01	0306900-1	2SC2607 G.Y
TR02	0306930-1	2SC561 R.G
TR03	0303460-1	2SB681 R.G
TR04	0306900-1	2SC2607 G.Y
TR04	0306930-1	2SC561 R.G
TR04	0301300-1	2SA1116 G.Y
TR04	0303460-1	2SB681 R.G
*Thermistor		
Th01	G20130	PTH487A
R 01 - 04	0150130	0.33K 5W Ca.R.
R 05 - 08	0210479	4.7K 1/2W N.I.R.

Conductor Side



Parts List

Parts No.	Stock No.	Description	
• Transistor			
TR01	0306990.1	2SC2607 O.Y.	X
	0308630.1	2SD551 R.O.	X
TR02	0301300.1	2SA1116 O.Y.	X
	0303460.1	2SB681 R.O.	X
TR03	0306990.1	2SC2607 O.Y.	X
	0308630.1	2SD551 R.O.	X
TR04	0301300.1	2SA1116 O.Y.	X
	0303460.1	2SB681 R.O.	X
• Thermistor			
TH01	0302130	PTH4681	
R 01 - 04	0159130	0.320 5W Co R.	
R 05 - 08	0210130	4.70 1/2W N.R.	

Parts List

Parts No.	Stock No.	Description
	7510761	FM Front end .. X
	7510821	FM Front end .. Y

Parts List

Parts No.	Stock No.	Description
C 01	0621682	6800pF 50V P.C.
L 01	4201001	Box Antenna

Parts List

Parts No.	Stock No.	Description
VR601	1090270, 1	20&2 (A) Volume, Mixing
1. 601	2430400	Mic Jack

Parts List

Parts No.	Stock No.	Description
S 02	1132180	Push Switch Ass'y Y FM Mode, DOLBY FM, Audio Muting
S 05	1132200	MPX Noise Canceler Push Switch Ass'y X FM Auto Noise Filter, FM IF Band, DOLBY FM De-emphasis, FM Mode Audio Muting

Parts List

Parts No.	Stock No.	Description
VR01	1011160, 1	150k Ω (B) $\times$ 2 Volume

Parts List

Parts No.	Stock No.	Description
R 01,02	0183221	220Ω 3W Cr.R.
J 01	2430400	Head Phone Jack

Parts List

Parts List		
Parts No.	Stock No.	Description
C 01-02	0620511	510pF 50V P.C.
S 01-03	1131540	Push Switch Ass'y, Loudness, High Filter, Subsonic Filter

Parts List

Parts No.	Stock No.	Description
LD01	0319060	SG2-12C (RED)
LD02	0319060	SG2-12C (RED)
LD03	0319060	SG2-12C (RED)
LD04	0319060	SG2-12C (RED)
LD05	0319060	SG2-12C (RED)

Parts List

Parts No.	Stock No.	Description
LD01	0319060	SG2-12C (RED) FM Stereo
LD02	0310060	SG2-12C (GREEN) Cassette Locking

Parts List

Parts No.	Stock No.	Description
LD01	0319050	SG2-13C, Safety Operate (GREEN)
LD02	0319060	SG2-12C, Speaker A (RED)
LD03	0319060	SG2-12C, Speaker B (RED)

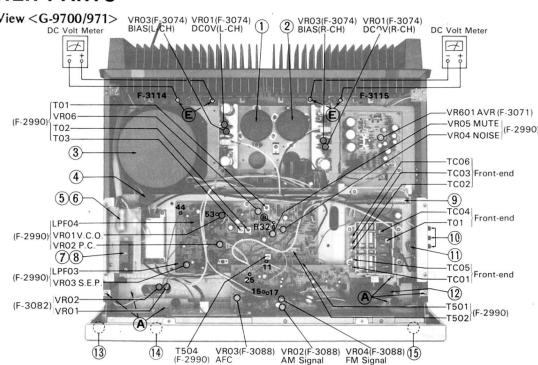
Parts List

Parts No.	Stock No.	Description
2200600		2P Input Terminal, Phono 1
2200620		4P Input Terminal, Phono 2, AUX
2200660		6P Input Terminal, Tape 1, Tape 2

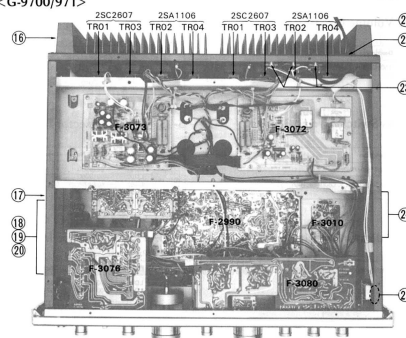
● Abbreviations			
C.R.	Carbon Resistor	E.L.	Low Leak Electrolytic Capacitor
S.R.	Solid Resistor	E.B.	Bi-Polar Electrolytic Capacitor
C.R.	Cement Resistor	E.B.L.	Low Leak Bi-Polar Electrolytic Capacitor
M.F.R.	Metal Film Resistor	Ta.C.	Tantalum Capacitor
F.R.	Fusing Resistor	F.C.	Film Capacitor
N.I.R.	Non-Inflammable Resistor	M.P.	Metallized Paper Capacitor
C.C.	Ceramic Capacitor	P.C.	Polystyrene Capacitor
C.T.	Ceramic Capacitor, Temperature Compensation	G.C.	Gummy Capacitor
E.C.	Electrolytic Capacitor		

4-1. Top View <G-9700/971>

4-1. Top View <G-9700/971>



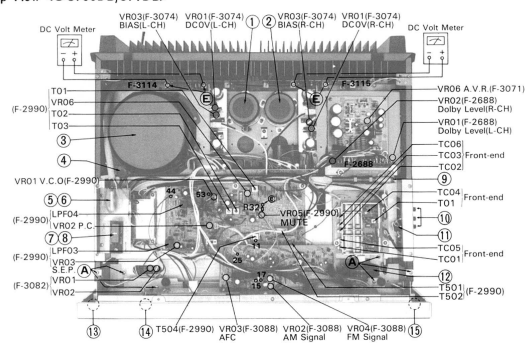
4-2. Bottom View <G-9700/971>



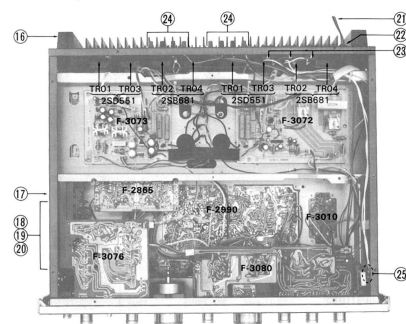
Parts List (Top & Bottom View) <G-9700/971>

No.	Part No.	Stock No.	Description	No.	Part No.	Stock No.	Description	No.	Part No.	Stock No.	Description
C	T 705	0681014	0.047µF 50V C	7	241001		Voltage Selector, plug	16	521610		Back Stand
C	T 703	0591983	12000µF 100V C	7	241030		250V 100µF Terminal	16	522010		250V 100µF Terminal
C	T 704	0591983	1000µF 100V C	9	420101		Bar Arameta	16	522100		2P 250V Terminal, photo
C	T 701	0681014	0.047µF 50V C	10	221030		Armeta Terminal	16	522600		4P 400V Terminal, photo
C	T 702	0001300	1000µF 100V C	L	701	0420023.4	Power Transformer	16	522700		4P 400V Terminal, 100µF
C	T 702	0656802	800µF 150V C	12	614014		Pulley	16	522800		Power Cord
C	F 701	0423200	Power Fuse 1A 150V	PL	701	0420010	Pilot Lamp	23	501000		AC Outlet
C	F 701	0434100	Power Fuse 12A 150V	PL	703	0400060	Pilot Lamp	23	526010		AC Outlet
C		2171020	Power Fuse Holder	PL	702	0420010	Pilot Lamp	24	5658010	C 701	5658010

4-3. Top View <G-8700DB/871DB>



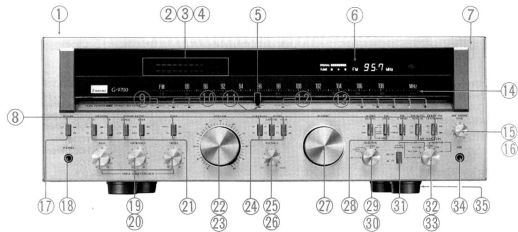
4.4. Bottom View <G-8700DB/871DB>



Parts List (Top & Bottom View) <G-8700DB/871DB>

Part List (Top of Bill of Materials)				Part List (Bottom of Bill of Materials)			
No.	Para	No.	Description	No.	Para	No.	Description
1	703	519853	1200V 4000' 150V C.C.	8	241030	8	Voltage Detector, Socket
2	704	068104	1200V 4000' 150V C.C.	9	C21011	18	2200000
2	704	068104	1200V 4000' 150V C.C.	10	221010	18	2200000
2	706	068104	1200V 4000' 150V C.C.	11	L 301	2200000	2200000
2	706	068104	1200V 4000' 150V C.C.	12	061041	18	2200000
2	707	068602	1200V 4000' 150V C.C.	13	PL 701	21	360400
2	707	068602	1200V 4000' 150V C.C.	14	060600	21	360400
2	707	068602	1200V 4000' 150V C.C.	15	PL 702	21	360400
2	707	068602	1200V 4000' 150V C.C.	16	211010	21	360400
2	707	068602	1200V 4000' 150V C.C.	17	221010	21	360400
2	707	068602	1200V 4000' 150V C.C.	18	222010	21	360400
2	707	068602	1200V 4000' 150V C.C.	19	223010	21	360400
2	707	068602	1200V 4000' 150V C.C.	20	224010	21	360400
2	707	068602	1200V 4000' 150V C.C.	21	225010	21	360400
2	707	068602	1200V 4000' 150V C.C.	22	226010	21	360400
2	707	068602	1200V 4000' 150V C.C.	23	227010	21	360400
2	707	068602	1200V 4000' 150V C.C.	24	228010	21	360400
2	707	068602	1200V 4000' 150V C.C.	25	229010	21	360400
2	707	068602	1200V 4000' 150V C.C.	26	230010	21	360400
2	707	068602	1200V 4000' 150V C.C.	27	231010	21	360400
2	707	068602	1200V 4000' 150V C.C.	28	232010	21	360400
2	707	068602	1200V 4000' 150V C.C.	29	233010	21	360400
2	707	068602	1200V 4000' 150V C.C.	30	234010	21	360400
2	707	068602	1200V 4000' 150V C.C.	31	235010	21	360400
2	707	068602	1200V 4000' 150V C.C.	32	236010	21	360400
2	707	068602	1200V 4000' 150V C.C.	33	237010	21	360400
2	707	068602	1200V 4000' 150V C.C.	34	238010	21	360400
2	707	068602	1200V 4000' 150V C.C.	35	239010	21	360400
2	707	068602	1200V 4000' 150V C.C.	36	240010	21	360400
2	707	068602	1200V 4000' 150V C.C.	37	241010	21	360400
2	707	068602	1200V 4000' 150V C.C.	38	242010	21	360400
2	707	068602	1200V 4000' 150V C.C.	39	243010	21	360400
2	707	068602	1200V 4000' 150V C.C.	40	244010	21	360400
2	707	068602	1200V 4000' 150V C.C.	41	245010	21	360400
2	707	068602	1200V 4000' 150V C.C.	42	246010	21	360400
2	707	068602	1200V 4000' 150V C.C.	43	247010	21	360400
2	707	068602	1200V 4000' 150V C.C.	44	248010	21	360400
2	707	068602	1200V 4000' 150V C.C.	45	249010	21	360400
2	707	068602	1200V 4000' 150V C.C.	46	250010	21	360400
2	707	068602	1200V 4000' 150V C.C.	47	251010	21	360400
2	707	068602	1200V 4000' 150V C.C.	48	252010	21	360400
2	707	068602	1200V 4000' 150V C.C.	49	253010	21	360400
2	707	068602	1200V 4000' 150V C.C.	50	254010	21	360400
2	707	068602	1200V 4000' 150V C.C.	51	255010	21	360400
2	707	068602	1200V 4000' 150V C.C.	52	256010	21	360400
2	707	068602	1200V 4000' 150V C.C.	53	257010	21	360400
2	707	068602	1200V 4000' 150V C.C.	54	258010	21	360400
2	707	068602	1200V 4000' 150V C.C.	55	259010	21	360400
2	707	068602	1200V 4000' 150V C.C.	56	260010	21	360400
2	707	068602	1200V 4000' 150V C.C.	57	261010	21	360400
2	707	068602	1200V 4000' 150V C.C.	58	262010	21	360400
2	707	068602	1200V 4000' 150V C.C.	59	263010	21	360400
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2	707	068602	1200V 4000' 150V C.C.	62	266010	21	360400
2	707	068602	1200V 4000' 150V C.C.	63	267010	21	360400
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2	707	068602	1200V 4000' 150V C.C.	65	269010	21	360400
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2	707	068602	1200V 4000' 150V C.C.	67	271010	21	360400
2	707	068602	1200V 4000' 150V C.C.	68	272010	21	360400
2	707	068602	1200V 4000' 150V C.C.	69	273010	21	360400
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2	707	068602	1200V 4000' 150V C.C.	89	293010	21	360400
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2	707	068602	1200V 4000' 150V C.C.	106	310010	21	360400
2	707	068602	1200V 4000' 150V C.C.	107	311010	21	360400
2	707	068602	1200V 4000' 150V C.C.	108	312010	21	360400
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2	707	068602	1200V 4000' 150V C.C.	110	314010	21	360400
2	707	068602	1200V 4000' 150V C.C.	111	315010	21	360400
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2	707	068602	1200V 4000' 150V C.C.	113	317010	21	360400
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2	707	068602	1200V 4000' 150V C.C.	117	321010	21	360400
2	707	068602	1200V 4000' 150V C.C.	118	322010	21	360400
2	707	068602	1200V 4000' 150V C.C.	119	323010	21	360400
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2	707	068602	1200V 4000' 150V C.C.	130	334010	21	360400
2	707	068602	1200V 4000' 150V C.C.	131	335010	21	360400
2	707	068602	1200V 4000' 150V C.C.	132	336010	21	360400
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2	707	068602	1200V 4000' 150V C.C.	135	339010	21	360400
2	707	068602	1200V 4000' 150V C.C.	136	340010	21	360400
2	707	068602	1200V 4000' 150V C.C.	137	341010	21	360400
2	707	068602	1200V 4000' 150V C.C.	138	342010	21	360400
2	707	068602	1200V 4000' 150V C.C.	139	343010	21	360400
2	707	068602	1200V 4000' 150V C.C.	140	344010	21	360400
2	707	068602	1200V 4000' 150V C.C.	141	345010	21	360400
2	707	068602	1200V 4000' 150V C.C.	142	346010	21	360400
2	707	068602	1200V 4000' 150V C.C.	143	347010	21	360400
2	707	068602	1200V 4000' 150V C.C.	144	348010	21	360400
2	707	068602	1200V 4000' 150V C.C.	145	349010	21	360400
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2	707	0686					

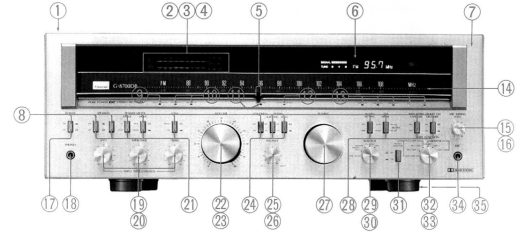
4-5. Front View <G-9700/971>



Parts List (Front View) <G-9700/971>

Part No.	Stock No.	Description	Part No.	Stock No.	Description	Part No.	Stock No.	Description
1	572700	Wood Bumper	11	0319060	Indicator, FM stereo (red)	24	1131540	Push Switch Assy, Loudness
2	5446400	Snatched Plate	12	0319050	Indicator, Quartz Locked (Green)			High Filter, Subsonic Filter
3	5426300	LED Guide Plate	13	0319060	Indicator, selector (red)	25	5319460	Knob, Balance
4	0319420	LED Assy	14	5408780	Dial Glass <G-9700>	26	1015340, 1	Balance Volume, 250kΩ (BNI) x 2
5	7116101	Dial Pointer	15	5408780	Dial Glass <G-971>	27	5319430	Knob, Tuning
6	0030060	Display Unit	16	5319450	Knob, Mic Mixing	28	1132280	Push Switch Assy, FM auto noise filter, IF band, Dolby FM mode FM muting, audio muting
7	7008480	Front Panel Assy <G-9700>	17	1002070, 1	Mic, Mixing Volume			
	7008670	Front Panel Assy <G-971>	18	5319450	Power Switch	29	5319470	Knob, selector
	5446430	Masking Plate	19	2430400	Head Phone Jack	30	1190750	Selector Switch
	5396731	Knob, Guide <G-9700>	20	5319470	Knob, Bass, Midrange, Treble	31	1131550	Source Monitor Switch
	5396771	Knob, Guide <G-971>	21	1132190	Push Switch Assy, tone, speakers	32	5319470	Knob, tone monitor
8	5446490	Front Glass	22	5319440	Knob, Master	33	1190740	Tape Monitor Switch
9	5405940	Dial Frame	23	1011160, 1	Master Volume, 150kΩ (BI) x 2	34	2630400	Mic Jack
10	5319491	Push Switch Knob				35	5517090	Lag
11	0319050	Indicator, safety operator (green)						
12	0319060	Indicator, speaker A, B, (red)						

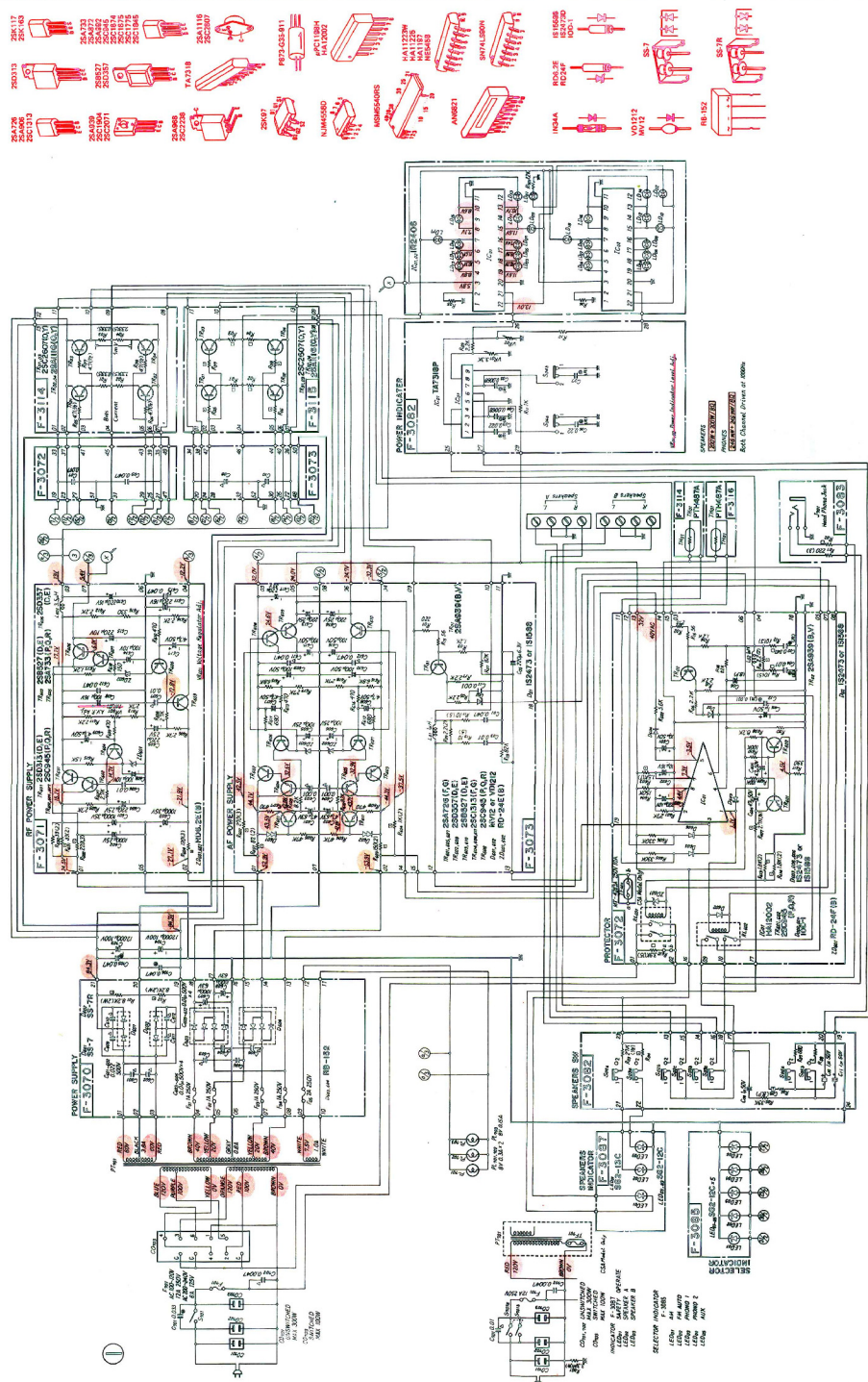
4-6. Front View <G-8700DB/871DB>



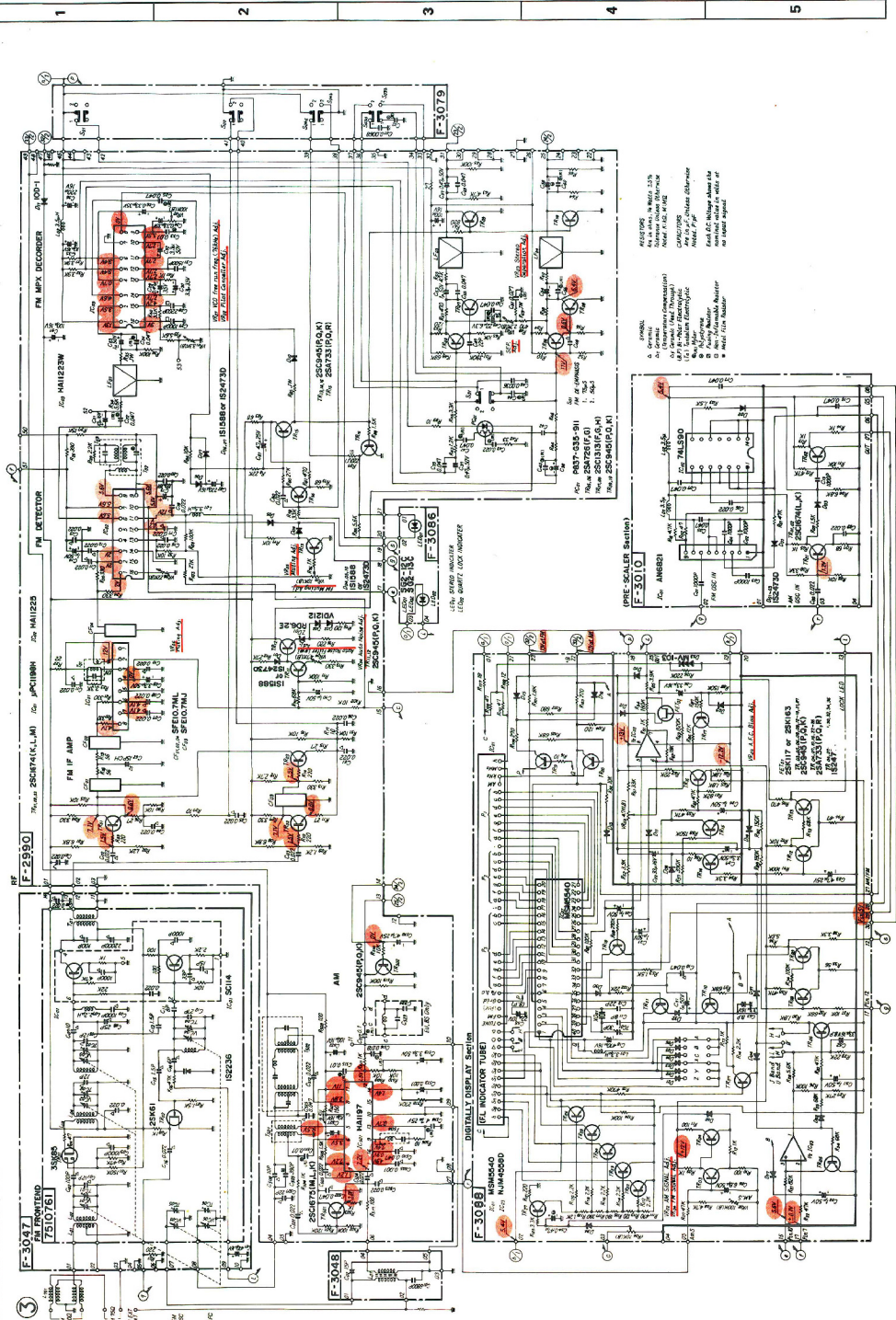
Parts List (Front View) <G-8700DB/871DB>

Part No.	Stock No.	Description	Part No.	Stock No.	Description	Part No.	Stock No.	Description	Position
1	572710	Wood Bumper	11	0319060	Indicator, FM Stereo (Red)	23	1011160, 1	Master Volume 150kΩ (BI) x 2	
2	5446400	Snatched Plate	12	0319050	Indicator, Quartz Locked (Green)	24	1131540	Push Switch Assy, Loudness	
3	5426300	LED Guide Plate	13	0319060	Indicator, selector (Red)			High Filter, Subsonic Filter	
4	0319420	LED Assy	14	5408780	Dial Glass <G-8700DB>	25	5319460	Knob, Balance	
5	7116101	Dial Pointer	15	5408780	Dial Glass <G-871DB>	26	1015340, 1	Balance Volume 250kΩ (BNI) x 2	
6	0030060	Fluorescent Display Unit	16	5319450	Knob, Mic Mixing	27	5319430	Knob, Tuning	
7	7008480	Front Panel Assy <G-8700DB>	17	1002070, 1	Mic, Mixing Volume 20kΩ (AI)	28	1132180	Push Switch Assy, Audio Muting, FM Mode, MPX Noise Canceller	
	7008670	Front Panel Assy <G-871DB>	18	5319450	Power Switch			DOLBY FM	
	5446430	Masking Plate	19	2430400	Headphone Jack	29	5319470	Knob, Selector	
	5396731	Knob, Guide <G-8700DB>	20	5319470	Knob, Bass, Midrange, Treble	30	1190750	Selector Switch	
	5396771	Knob, Guide <G-871DB>	21	1132190	Push Switch Assy, tone, speakers	31	1131550	Source Monitor Switch	
8	5446490	Front Glass	22	5319440	Knob, Master	32	5319470	Knob, Tape Function	
9	5405940	Dial Frame				33	1190740	Tape Function on Switch	
10	5319491	Push Knob				34	2630400	Mic Jack	
11	0319050	Indicator, Safety Operator (Green)				35	5517090	Lag	
12	0319060	Indicator, Speaker A, B, (Red)							

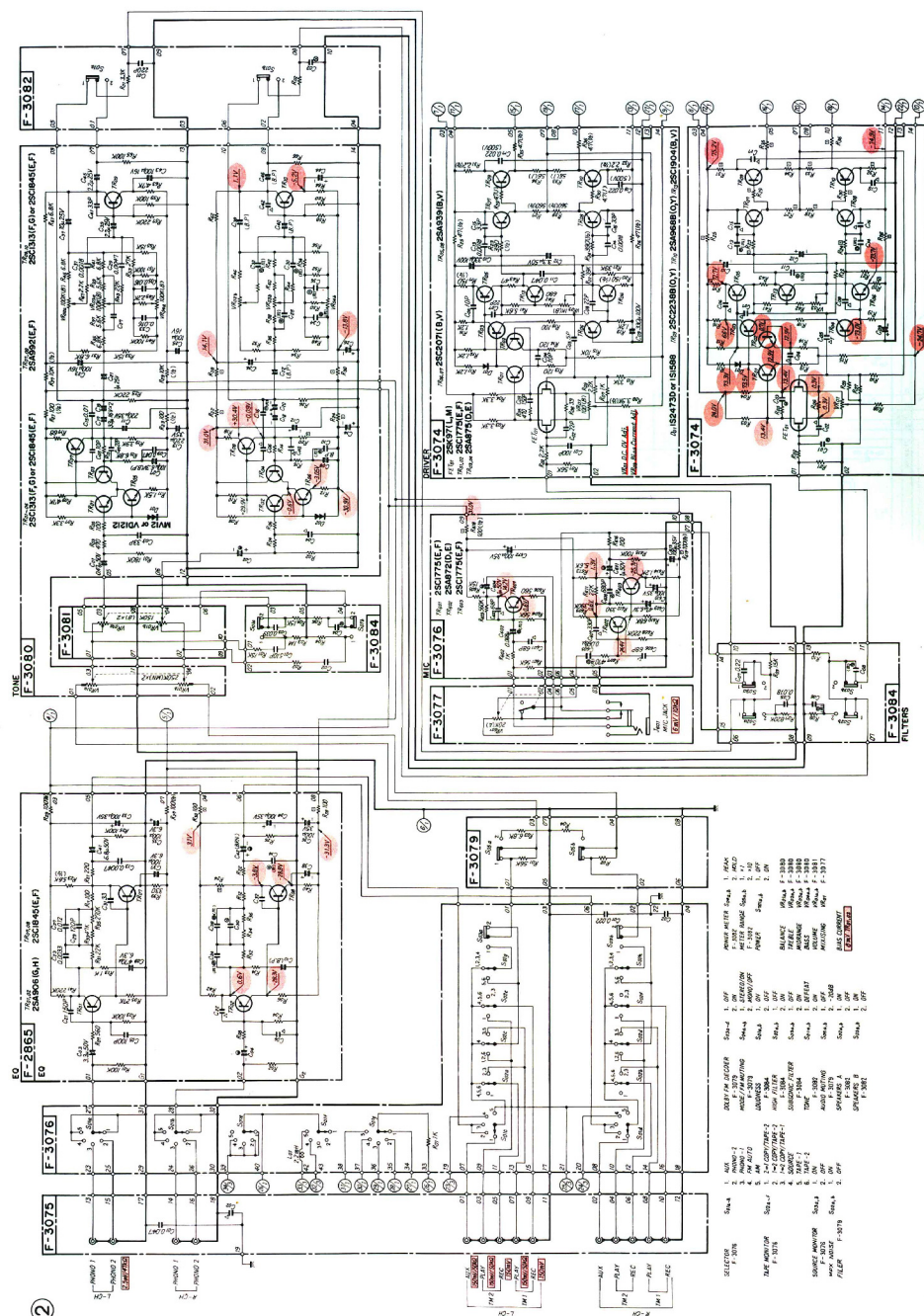
5. SCHEMATIC DIAGRAM



5-3. Tuner Section <G-9700/971>

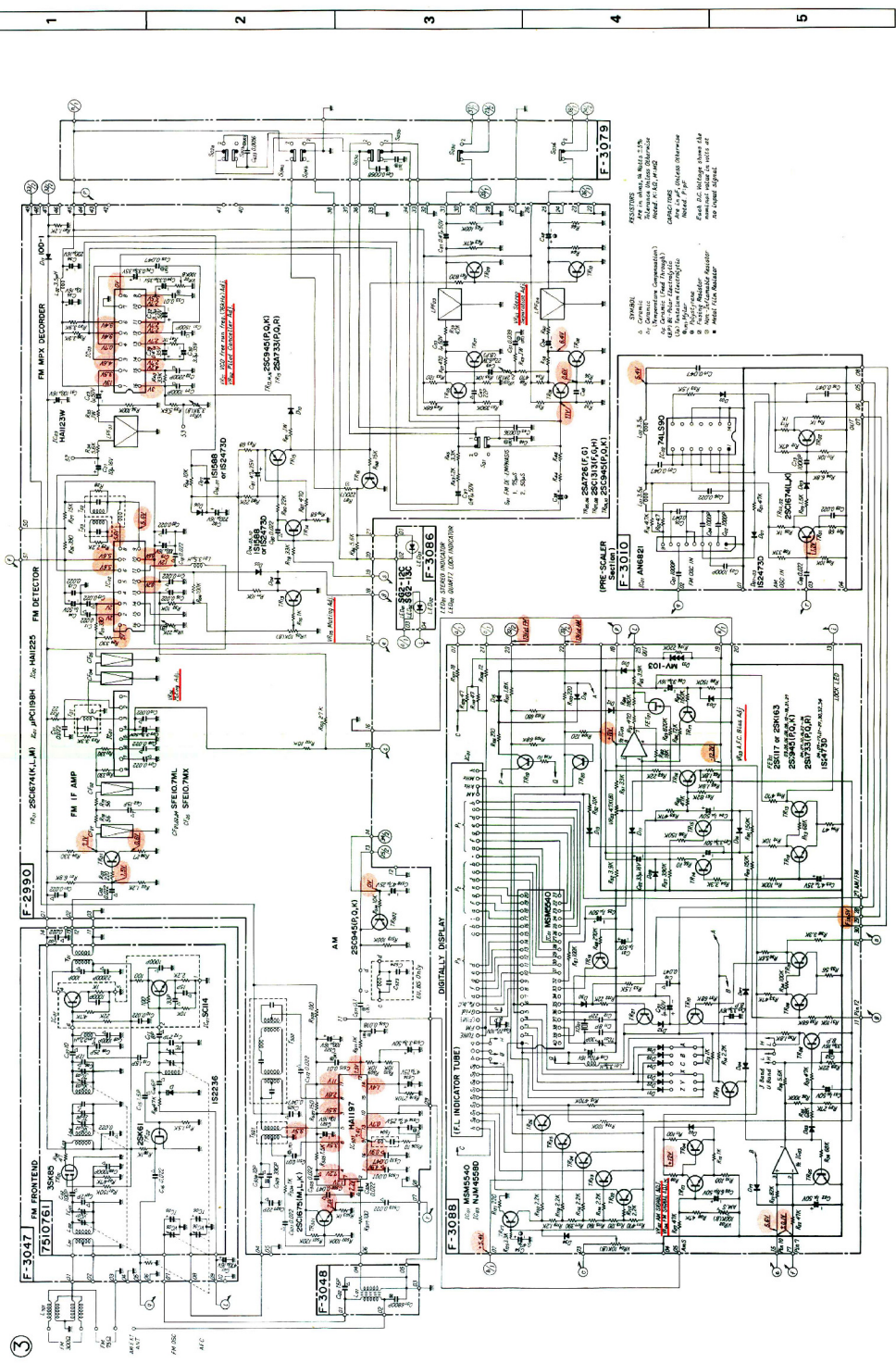


5.5.5. Audio Section <G-8700DB/871DB>



G-9700/971
 G-8700DB/871DB
 G-8700DB/871DB
 G-8700DB/871DB

5-6. Tune Section <G-8700DB/871DB>



6. THREADING OF DIAL CORD

- If a dial cord is cut off or slips, replace it by following procedures. As this unit uses 0.5 mmφ cord, please replace it with the same type certainly.
- The length of dial cord is approximately 200 cm (78.7 inch).

1. Threading of Dial Cord

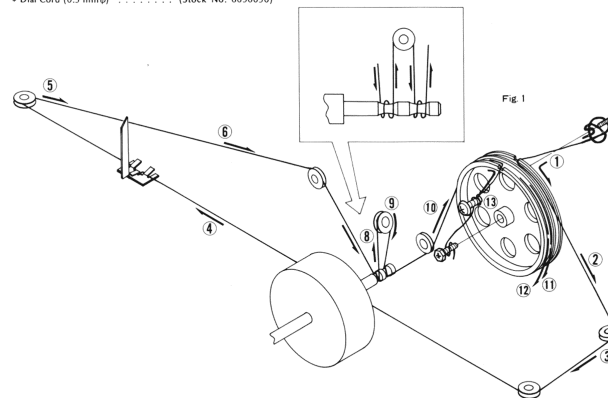
Thread the dial cord in numerical order from ① to ⑬ as Fig. 1.

- Open the variable capacitor completely.

- Dial Cord (0.5 mmφ) (Stock No. 6036050)

2. Attachment of Dial Pointer

1. After installing the dial string, turn on the power switch. If the digital display is in the "FM Reception" state, turn the tuning knob until the digital display indicates 98.0 MHz. Then, fix the pointer to the dial string, after setting the pointer to the 98.0 MHz value of the scale.
2. After attaching Dial pointer, confirm Dial pointer moves from 88 MHz to 108 MHz to turn the tuning knob.



7. MAIN PARTS REPLACEMENT

7-1. Master Volume Replacement

- 1) Pluck out, the volume knob.
- 2) Loosen the nut fastening the volume to chassis.
- 3) Take off the volume from F-3081, Circuit Board to remove solder.

7-2. Power Transistor Replacement

- 1) Take off the radiation fin to loosen 8 fixing screws on the rear panel.
- 2) Loosen 2 screws fixing a power transistor to heat sink.

7-3. Front Panel Replacement

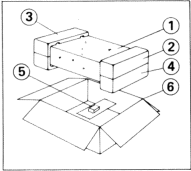
- 1) Remove bonnet and bottom plate.
- 2) Loosen 2 flat countersunk head screws fixing the front panel.
- 3) Loosen 3 nuts fixing the front panel after pluck out every knob except push knobs.

7-4. Replacement of LED Indication Circuit Board for Selector, Speaker, Stereo and Quartz Lock

- 1) Remove the front panel following to procedures above.
- 2) Lift up the tuning mechanism slightly to remove 6 screws A (Shown in Page 13 & 14, Top View)
- 3) Remove 2 T-rivets fixing LED Indication Circuit Board.

8. PACKING LIST

Parts No.	Stock No.	Description
1	9118741	Vinyl Cover
2	9028120	Styrofoam Packing, upper (R)
3	9028130	Styrofoam Packing, upper (L)
4	9028110	Styrofoam Packing, lower
5	9028160	Styrofoam Packing
	9056030	Carton Case <G-8700>
	9056040	Carton Case <G-871>
6	9056050	Carton Case <G-8700DB>
	9056060	Carton Case <G-871DB>



9. ACCESSORY PARTS LIST

Stock No.	Description
9205000	Operating Instructions <G-8700>
9205290	Operating Instructions <G-871>
9205010	Operating Instructions <G-8700DB>
9205300	Operating Instructions <G-871DB>
9238270	Schematic Diagram <G-8700>
9238280	Schematic Diagram <G-871>
9238290	Schematic Diagram <G-8700DB>
9238300	Schematic Diagram <G-871DB>