

SERVICE MANUAL

REMOTE COMPU-EQUALIZER

SANSUI RG-900R

(Silver & Black Model)



CAUTION

1. Parts identified by the symbol on the schematic diagram and the parts list are critical for safety. Use only replacement parts that have critical characteristics recommended by the manufacturer.
2. Make leakage-current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.

•SPECIFICATIONS

Input sensitivity and impedance (1 kHz)

SOURCE IN, TAPE PLAY, VIDEO S. IN 150 mV/50 kohms
MIC 0.4 mV/10 kohms

Output level (1 kHz)

TAPE REC 150 mV/47 kohms
SOURCE OUT 150 mV/47 kohms
(Maximum output level: 4V/47 kohms at 0.5% total harmonic distortion)

Total harmonic distortion (1 kHz, 2V)

SOURCE IN, TAPE PLAY, VIDEO S. IN 0.05%

Frequency response (150 mV)

SOURCE IN, TAPE PLAY, VIDEO S. IN 20 Hz ~ 20 kHz,
+1 dB, -1 dB

Signal to noise ratio (Short-circuit, A-network)

SOURCE IN, TAPE PLAY, VIDEO S. IN 75 dB

Channel separation (1 kHz)

SOURCE IN, TAPE PLAY, VIDEO S. IN 50 dB

Equalizer frequency

..... 63 Hz, 160 Hz, 400 Hz,

1 kHz, 2.5 kHz, 6.3 kHz,

16 kHz

Level variation range

..... ±10 dB

Reverb time

..... 0~3 sec.

Delay time

..... 20 msec.

Power requirements

..... 120/220/240V

(50/60 Hz)

For U.S.A. and Canada

..... 120 V (60 Hz)

Power consumption

..... 10 watts

Dimensions

..... 430 mm (16-15/16") W

78 mm (3-1/8") H

227 mm (8-15/16") D

Weight

..... 2.8 kg (6.2 lbs) net

3.7 kg (8.2 lbs) packed

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

* Due to local laws and regulations, this unit sold in some areas are not equipped with variable voltage selectors

RG-900R

RG-900R

CAUTION

1. The symbols, UL, CSA, SA, BS, UK, EU, AS, XX <EXPORT> and XX-V <EXPORT(V)> on the parts list and the schematic diagram mean followings respectively.

UL Manufactured for U.S.A market.
(Underwriters Laboratories approved model.)
CSA Manufactured for Canadian market.
SA Manufactured for South African market.
BS, UK Manufactured for United Kingdom market.
EU Manufactured for European market.
AS Manufactured for Australian market.
XX <EXPORT> Standard Version with Inner Voltage Selector.
XX-V <EXPORT(V)> Standard Version with Outer Voltage Selector.
NON MARK Common Parts.

2. Some printed circuit boards are not supplied as the assembled. To separate these in this service manual, the stock No's are not indicated at the ends of the board names. However, the individual parts on the circuit boards are provided by orders.
3. 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 issued on February 1983.

4. Abbreviations in this service manual are as follows.

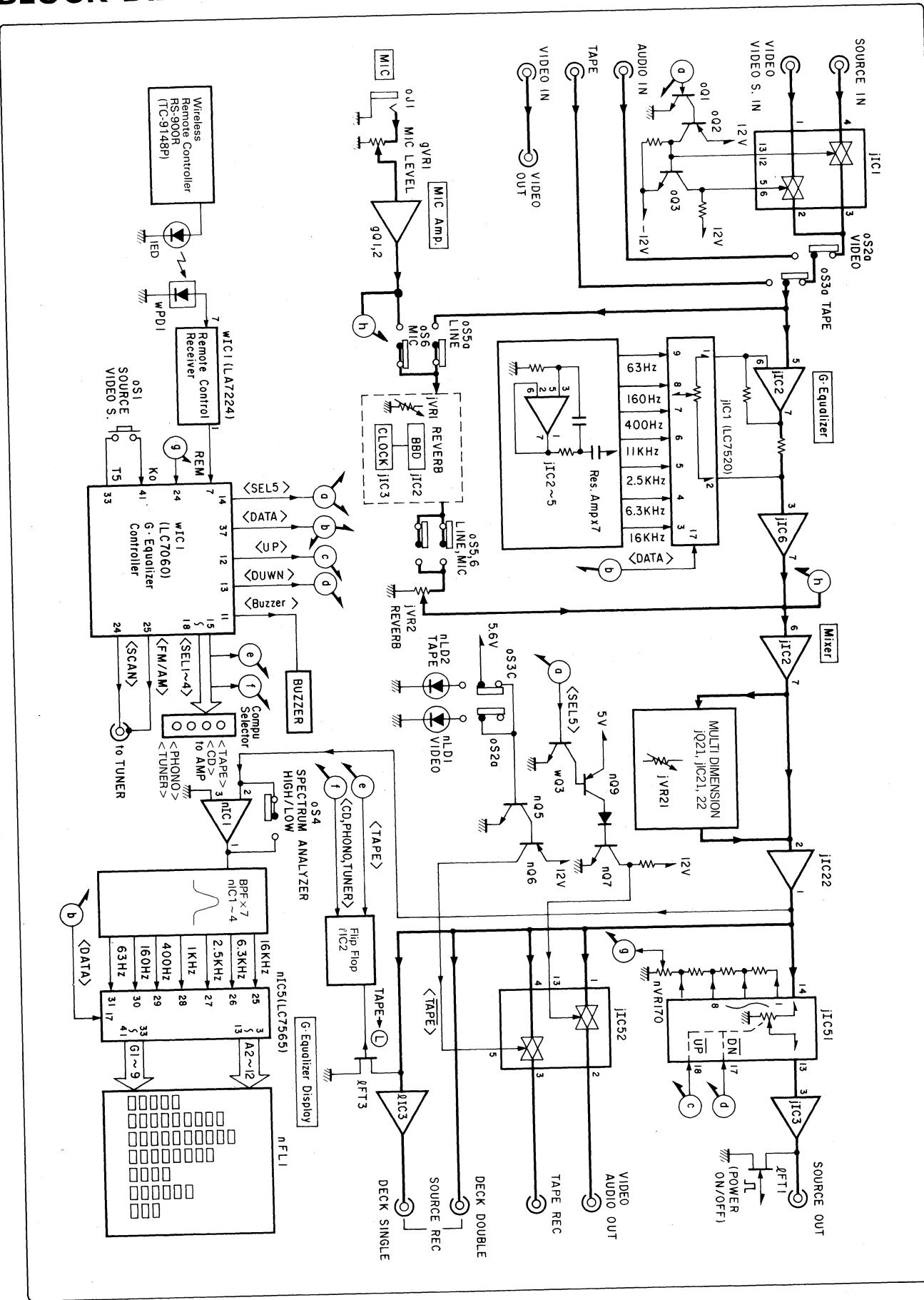
•Abbreviations List

C.R.	: Carbon Resistor	E.B.L.	: Low Leak Bi-Polar
S.R.	: Solid Resistor	E.C.	: Electrolytic Capacitor
Ce.R.	: Cement Resistor	Ta.C.	: Tantalum Capacitor
M.R.	: Metal Film Resistor	F.C.	: Film Capacitor
F.R.	: Fusing Resistor	M.P.	: Metalized Paper Capacitor
N.I.R.	: Non-Inflammable Resistor	P.C.	: Polystyrene Capacitor
A.R.	: Array Resistor	G.C.	: Gimmic Capacitor
C.C.	: Ceramic Capacitor	A.C.	: Array Capacitor
C.T.	: Ceramic Capacitor, Temperature Compensation	V.R.	: Variable Resistor
E.C.	: Electrolytic Capacitor	S.V.R.	: Semi Variable Resistor
E.L.	: Low Leak Electrolytic Capacitor	SW.	: Switch
E.B.	: Bi-Polar Electrolytic Capacitor	Chip R.	: Chip Resistor
		Chip C.	: Chip Capacitor

Sansui

SANSUI ELECTRIC CO., LTD.

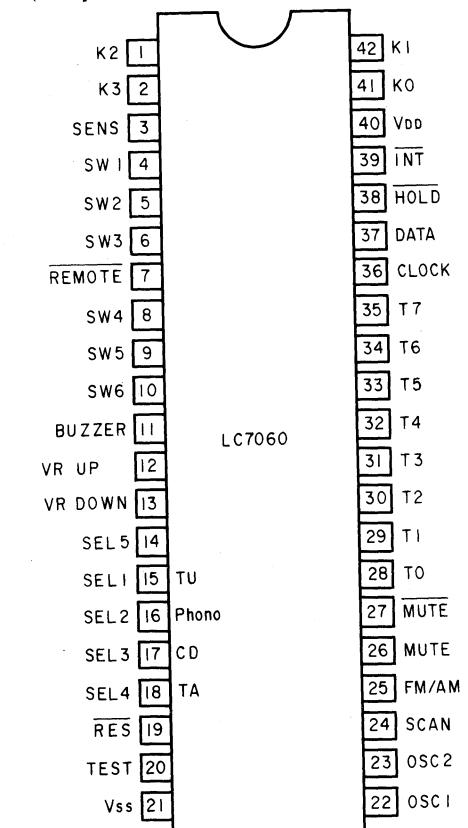
1. BLOCK DIAGRAM



2. DESCRIPTION OF GRAPHIC EQUALIZER CONTROLLER IC, LC7060

1. Pin Arrangement

•LC7060 (Graphic Equalizer Controller IC)



(4) SW1 to SW6 (I)

Functions of these switches are listed below. (For further detail, see Items on each key function)

SW No.	Function	"L"	"H"
SW1	Designation of the number of user's memory units User memory:2 Marker option:3	LC7520	LC7522
SW2	Switching of GEQ electronic variable resistor ICs LC7520 and LC7522.	LC7565	LC7560
SW3	Switching of display ICs LC7565 and LC7560.		
SW4	Switching of G/S key functions If SW5 is at "L", GEQ is displayed for 5 seconds. If SW5 is at "H", the present mode is displayed.		The present mode (auto mode or GEQ display mode) is displayed.
SW5	Switching of memory display flashing on/off and memory number function specification Memory display flashes.	Memory display stays on. Memory:5+3 LC7820 is usable	
SW6	Switching of display IC for using it as SPEANA display only GEQ controller usually	GEQ display mode: GEQ is displayed fixedly.	Setting of SPEANA display when power is on

*Auto-mode: GEQ is displayed when G/S key is depressed.
After 5 sec, SPEANA is displayed automatically.
GEQ display mode: GEQ is displayed fixedly.

(5) BUZZER (O)

This terminal is used for actuating a piezoelectric buzzer. When keys are operated, a signal having a frequency of several-hundred hertz is outputted from this terminal.

(6) VR UP/DOWN (O)

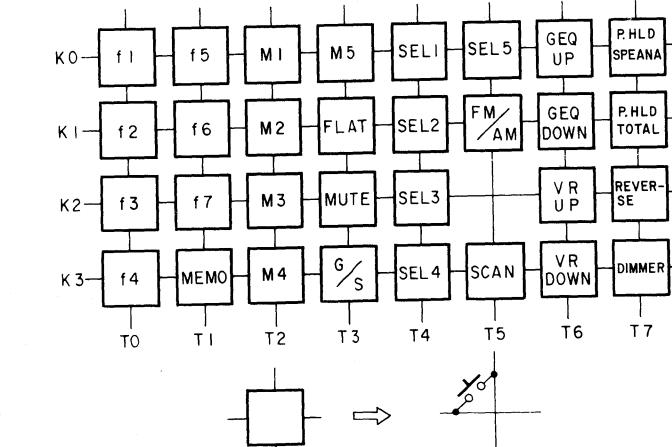
These terminals are used for outputting a signal for activating an electronic variable resistor.
When VR UP/DOWN keys are depressed, and "H" pulse is outputted for 0.1 sec from each port corresponding to the depressed key.

(7) SEL 1 to 5 (O)

These terminals are used for outputting a signal for switching functions.
SEL 1 to 4 When SEL 1 to SEL 4 are depressed, an "H" pulse is outputted for 0.3 sec from each port.
SEL 5 When SEL 5 key is depressed, the terminal output signal is cyclically inverted. When SEL 1 to 4 are being selected, the signal is at "L".

2. Description of Terminals

(1) K₀ to K₃ and T₀ to T₇ configure a key matrix.



(2) SENS (I)

This terminal is used for checking whether back-up function is reset or not when power is turned on. If at "H" when the power is on, this indicates that the back-up function is reset; if at "L", this indicates that initialization is made when power is turned on.

(3) REMOTE (I)

This terminal is used for inputting remote-control signals.

(9) SCAN (O)

This terminal is used for outputting a tuner scanning signal. When SCAN key is depressed, an "H" pulse is outputted for 0.3 sec.

(10) MUTE, MUTE (O)

These terminals are used for outputting a mute signal. When MUTE key is depressed, the signal is at "H".
When not depressed, the signal is at "L". MUTE terminal is logically reverse of MUTE.

(11) DATA, CLOCK (O)

These terminals are used for outputting a signal applied to ECS IC. With respect to data transfer.

***MUTE additional specifications**

Even when MUTE key is not depressed, MUTE is turned on as follows:
 (1) When M1 to M5, FLAT and REVERSE keys are depressed, MUTE is kept on for 0.1 sec.
 (2) When SCAN key is depressed, MUTE is kept on for 0.3 sec.
 (3) When SEL 1 to 5, FM/AM keys are depressed or when power is turned on, MUTE is kept on for 0.5 sec.

Note: When one of SEL 1 to 4 is depressed twice, MUTE is turned on twice.

3. Key Functions**(1) f1 to f7 Frequency Selection Keys**

* When GEQ setting is required to change, a required frequency band can be selected by use of these keys.
 * The selected band begins flashing.
 * Whenever these keys are depressed, GEQ is displayed automatically.
 * If no other keys are depressed for 5 sec after one of these keys is depressed, SPEANA is displayed automatically.

(2) GEQ UP/DOWN GEQ Set Point Up/Down Shifting Keys

* After a frequency band has been selected by use of f1 to f7 keys, the selected band can be shifted up and down by use of these keys (± 2 dB step).
 * If these keys are kept depressed, the band is shifted up and down at a speed of 0.5 sec per step.
 * When there exists no flashing band, the band is not shifted.
 * When the band reaches the upper or lower limit, the band is not shifted.
 * When no other keys are depressed for 5 sec after these keys have been released, SPEANA is displayed automatically.

(3) MEMO MEMORY Key

* When the present GEQ set point is required to store, this key enables memory to store the set point.
 * While memory is being enabled, MEMORY indication flashes (ON for 0.5 sec and OFF for 0.5 sec).
 * When this key is depressed, GEQ is displayed automatically.
 * When no other keys are depressed for 5 sec after this key has been depressed, SPEANA is displayed automatically and MEMORY indication goes off.
 * When another key (except this key) is depressed within 5 sec after this key has been depressed, the memory "enable" is released and MEMORY indication goes off.
 * When SW5 is at "H", MEMORY indication does not flash but stays on.

(4) M1 to M5 Preset Memory Keys

* These keys are used for access to preset memory. When these keys are depressed, an indicator corresponding to depressed preset memory number comes on.
 * When this key is depressed with MEMORY kept on, the set points are written into a designated memory.
Note: If SW1 is at "L", since M3 to M5 are maker's optional memory, it is impossible to write the set points.
 * When this key is depressed with MEMORY kept off, the contents of designated memory can be read out.
 * When this key is depressed, GEQ is displayed automatically.
 * When 5 sec has elapsed after this key was depressed, SPEANA is displayed automatically.

(5) FLAT Flat Key

* This key allows GEQ presetting to be flat (f1 to f7 is 0 dB).
 * When SW3 is at "L", an indicator corresponding to M6 comes on.
 * When this key is depressed, GEQ is displayed automatically.
 * When 5 sec has elapsed after this key was depressed, SPEANA is displayed automatically.

(6) G/S GEQ/SPEANA Display Switching Key

* This key is used for switching displays.
 * When SW4 and SW5 are both at "L", GEQ is displayed for 5 sec. After that, SPEANA is displayed automatically.
 * When SW4 is at "H", the present display can be switched from GEQ to SPEANA or vice versa.

This display mode is held until this key is depressed again.

- (i) When SPEANA is displayed after this key has been depressed (SPEANA mode), GEQ is displayed when another key is depressed. After 5 sec, SPEANA is displayed (normal specification).
- (ii) When GEQ is displayed after this key has been depressed (GEQ mode), GEQ is kept displayed even if another key is depressed and 5 sec has elapsed (no SPEANA display).
- * When SW5 is at "H" and SW4 is at "L", the display can be switched only by the use of this key. The display is never switched automatically.

(7) SEL 1 to 5 Selector Keys

* These keys are used for setting functions.
 * SEL 1 to 4 An "H" pulse is outputted for 0.3 sec from an output port corresponding to a depressed key.
 * SEL 5 The output is inverted cyclically. When SEL 1 to 4 are being selected, the output is at "L".
 * When functions are switched, MUTE ON signal is outputted for 0.5 sec from MUTE and MUTE terminals.
 * When power is turned on, SEL 1 is set to "L".

(8) VR UP/DOWN Variable Resistor Up/Down Keys

* These keys are used for controlling electronic variable resistors.
 * When these keys are depressed, an "H" pulse is outputted from the output port corresponding to a depressed key.
 * When kept depressed, the "H" pulse is outputted at time intervals of 0.5 sec.

(9) MUTE Mute Key

* This key is used for turning MUTE on or off.
 * Whenever this key is depressed, the output signal from MUTE and MUTE terminals is reversed cyclically.
 * When MUTE is turned on, the indicator comes on.

(10) FM/AM Band Switching Key

* This key is used for switching tuner bands.
 * When this key is depressed, an "H" pulse is outputted for 0.3 sec from FM/AM terminal.

(11) SCAN Scanning Key

* This key is used for scanning tuner.
 * When this key is depressed, an "H" pulse is outputted for 0.3 sec from SCAN terminal.

(12) P. HLD SPEANA/TOTAL Peak Hold ON/OFF Keys

* These keys are used for turning peak hold on or off in displaying SPEANA and TOTAL.
 * When SW3 is at "H", these keys are disabled.
 * The peak hold is turned on or off cyclically in SPEANA display and TOTAL display, independently.
 * When power is turned on for initialization, SPEANA is on and TOTAL is off.

(13) REVERSE Reverse Key

* This key is used for reversing GEQ preset points from plus to minus or vice versa. (Reversed up side down with respect to 0 dB)
 * When this key is depressed, GEQ is displayed automatically.
 * When 5 sec has elapsed after this key was depressed, SPEANA is displayed automatically.

(14) DIMMER Dimmer Key

* This key is used for turning DIMMER on or off.
 * When SW3 is at "H", this key is disabled.
 * When power is on, DIMMER is off.

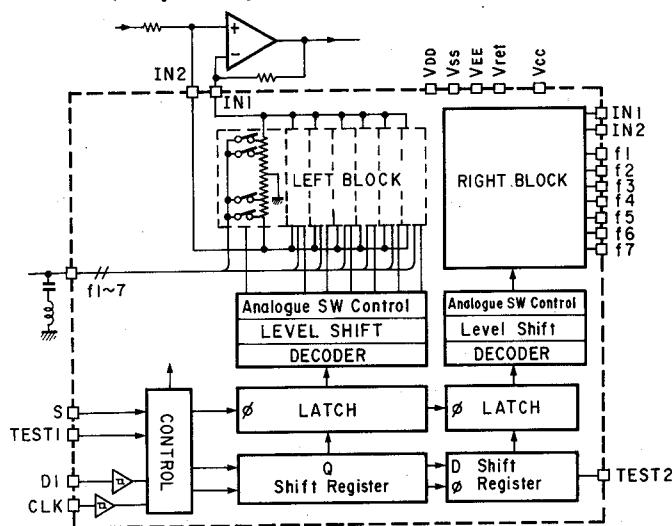
4. Other Specifications**(1) Sensor Tone Specification**

* Whenever each key is depressed, a sound signal (885 Hz) is outputted for 80 msec from BUZZER terminal.
 * When f1 to f7 and FLAT keys are depressed, sound signals having the following frequencies are outputted for 80 msec.

f1: 441 Hz	f5: 662 Hz
f2: 495 Hz	f6: 741 Hz
f3: 556 Hz	f7: 833 Hz
f4: 588 Hz	FLAT: 885 Hz

3. INTERIOR BLOCK DIAGRAM & TERMINAL FUNCTION OF IC

•LC7520 (Graphic Equalizer IC)



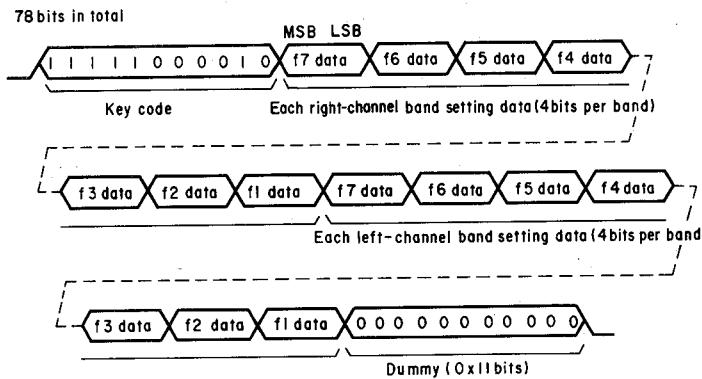
<Functions>

- Seven frequency band circuits are incorporated for each right and left side.
- Frequency is variable at 2 dB per step within a range of ± 10 dB (11 positions per band) by the use of UP/DOWN keys.
- A microcomputer is used for control. Two control lines are provided.

<Description of Terminals>

Pin No.	Terminal Name	Description
10	V _{DD}	Power terminal for audio signal +18V TYP
12	V _{ref}	Power terminal for logic driving V _{DD} -5V TYP
18	V _{SS}	Power terminal for ground 0V
19	V _{EE}	Power terminal for audio signals -18V TYP
13	V _{CC}	Power terminal +5V
17	D _I	*CPU data input terminal *Schmitt inverter type
16	CLK	*CPU CLK input terminal *Schmitt inverter type
1,28 2,27	IN1 IN2	*Audio signal input terminals *IN1 is usually connected to an inversion input of an operational amplifier. *IN2 is usually connected to a non-inversion input of an operational amplifier. *Provided for each right and left.
9~3 26~ 20	f1~f7	*Band pass filter connecting terminals *14 terminals in total (f1 to f7 for each side)
11	S	*Selector terminal (when two chips are used) *In response to "1", key code 7C3 is connected to V _{DD} *In response to "0", key code 7C2 is connected to V _{ref}
14	TEST1	*IC internal-function test terminal
15	TEST2	*Open in usual

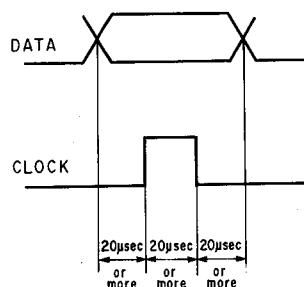
<Data bits>



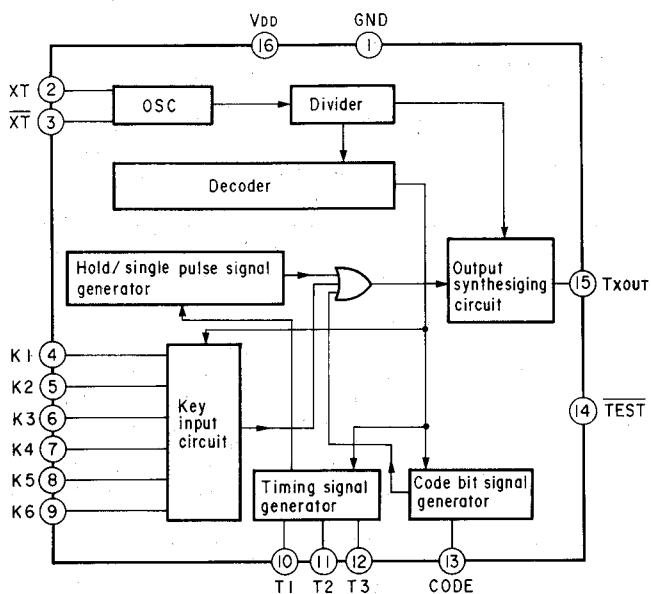
<Band setting data codes>

MSB	LSB	MSB	LSB
+ 10 dB	0 1 0 1	- 2 dB	1 0 0 1
+ 8	0 1 0 0	- 4	1 0 1 0
+ 6	0 0 1 1	- 6	1 0 1 1
+ 4	0 0 1 0	- 8	1 1 0 0
+ 2	0 0 0 1	- 10	1 1 0 1
0	0 1 1 0		

<Output timing chart between clock and data from microcomputer>



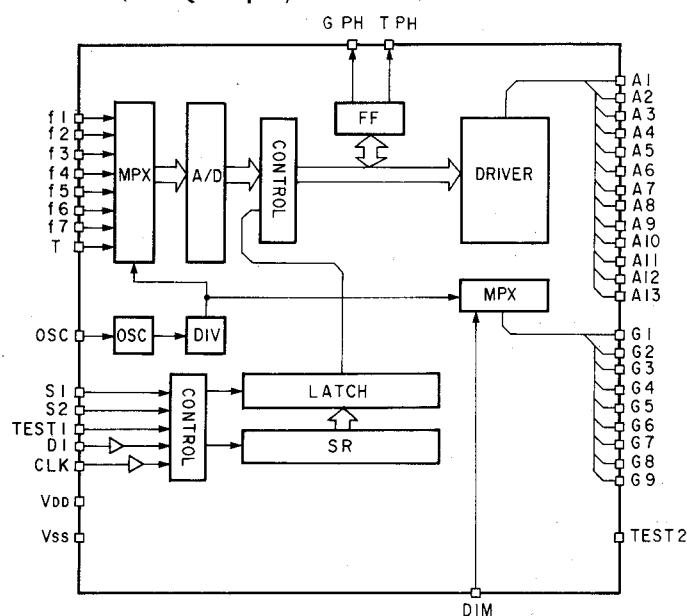
•TC9148P (Infrared Remote-Control Transmitter IC)



<Description of Terminals>

Pin No.	Terminal Name	Description
1,16	GND, V _{DD}	Ground and power supply terminals. Power supply voltage is applied.
2,3	XT, XT̄	Generator terminals. A 455 kHz ceramic oscillator (including a feedback resistor) is connected.
4 ~ 9	K ₁ ~ K ₆	Key input terminal. Signals from key-matrix keys are inputted. 18 keys are connectable by use of T ₁ to T ₃ and K ₁ to K ₆ multiplicably. (A pull-down resistor is included)
10 ~ 12	T ₁ ~ T ₃	Timing signal output terminal. Digit timing signals for key matrix are outputted.
13	CODE	Code bit input terminal. Codes are matched between transmission and reception.
14	TEST	Test terminal. Usually, this terminal is open.
15	T _{XOUT}	Transmitted signal output terminal. Transmitted signal is bits per cycle, being modulated by a 38 kHz carrier wave.

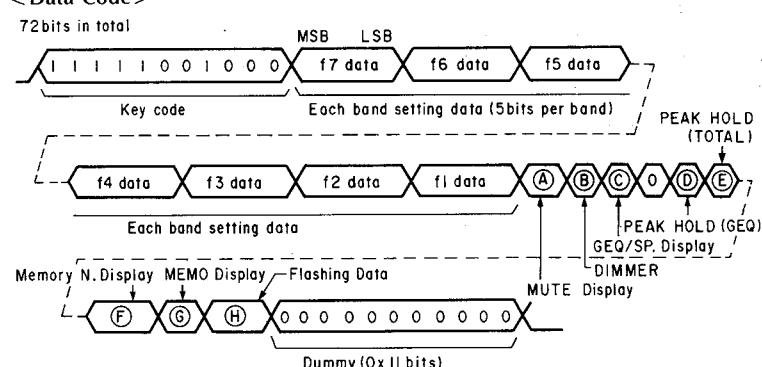
•LC7565 (G-EQ Display Driver IC)



<Description of Terminals>

Pin No.	Terminal Name	Description
42 19	V _{DD} V _{SS}	Power terminal +5V Typ Power terminal GND
17 18	DI CLK	CPU data input terminal CPU CLK input terminal
15 16	S1 S2	Selection Terminal (When plural chips are used. 4 pieces in maximum).
21	G-PH	C, R connecting terminal. The CR determines a peak hold reset time to display graphic equalizer in spectrum analyzer fashion.
22	T-PH	C, R connecting terminal. The CR determines a peak hold reset time in TOTAL display.
32	DIM	Terminal for controlling dimmer by directly driving the IC (when not controller by CPU). Dimmer is on at "1" but off at "0".
31 ~ 25, 24	f1 ~ f7, T	Rectified audio signal voltage input terminal
20	OSC	Open-drain type output buffer Terminal for externally connecting C and R for oscillator
2 ~ 14 41 ~ 33	A1 ~ A13 G1 ~ G9	Open-drain driver. Anode driven type Open-drain driver. Grid driven type

<Data Code>



<Band Setting Data Code>

	MSB	LSB
+ 12 dB	1 1 1 0 0	
+ 10	1 1 0 1 0	
+ 8	1 1 0 0 0	
+ 6	1 0 1 1 0	
+ 4	1 0 1 0 0	
+ 2	1 0 0 1 0	
0	1 0 0 0 0	
- 2 dB	0 1 1 1 0	
- 4	0 1 1 0 0	
- 6	0 1 0 1 0	
- 8	0 1 0 0 0	
- 10	0 0 1 1 0	
- 12	0 0 1 0 0	

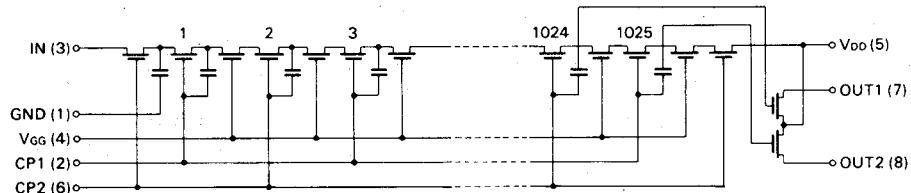
•LC7530 (Electronic Sound Volume IC)

<Description of Terminals>

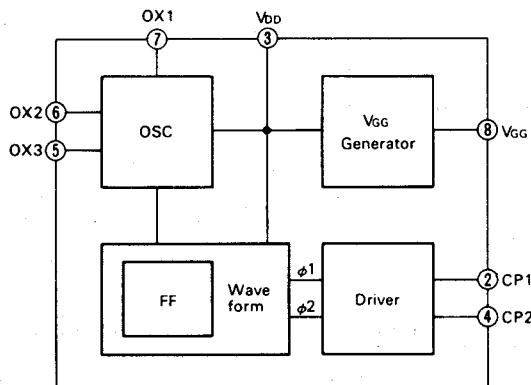
Pin No.	Terminal Name	Description																																																																																																																																																
1~8	IND1 ~ 8	<p>Sound volume position displaying output terminals: When INIT is at "L", only IND5 is at "H".</p> <table border="1"> <thead> <tr> <th>Control terminal of analog switch</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> </tr> </thead> <tbody> <tr><td>1</td><td>H</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>H</td><td>H</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td>H</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td>H</td><td>H</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td>H</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td>H</td><td>H</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td>H</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td>H</td><td>H</td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td>H</td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td>H</td><td>H</td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td><td></td><td>H</td><td></td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td><td></td><td></td><td></td><td>H</td><td></td><td></td></tr> <tr><td>13</td><td></td><td></td><td></td><td></td><td></td><td></td><td>H</td><td></td></tr> <tr><td>14</td><td></td><td></td><td></td><td></td><td></td><td></td><td>H</td><td>H</td></tr> <tr><td>15</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>H</td></tr> </tbody> </table> <p>*Blanks are all floating terminals H: P-channel comes on.</p>	Control terminal of analog switch	1	2	3	4	5	6	7	8	1	H								2	H	H							3	H								4		H	H						5		H							6		H	H						7			H						8			H	H					9				H					10				H	H				11					H				12						H			13							H		14							H	H	15								H
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9,14	SIG1,2	Analog switch input terminal: Signals to be attenuated by the IC are inputted.																																																																																																																																																
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Pin No.	Terminal Name	Description
11	V _M	Bias voltage terminal: When a signal bias voltage is required, this terminal voltage (1/2 V _{DD}) is used.
12	V _{SS}	GND terminal
15	CE	When this terminal voltage is set to GND level, the IC is set to back-up mode and the output is in a floating state. Power consumption is reduced.
16	INIT	Initial terminal: If at "L", step is 9 and terminal IND5 changes to "H".
17	DN	When this terminal voltage is decreased, the step decreases and attenuation constant increases. Further, if kept at "L", attenuation constant increases continuously; however, the instant the terminal voltage is set to "H", the attenuation constant is held at that step.
18	UP	This terminal voltage functions reversely of that at DN terminal. When UP and DN are both at "L", UP terminal has a priority. Further, terminal voltages at UP and DN stop changing in response to MSB or LSB.
19	CR	This terminal is used to determine step speed. Resistors and capacitors are connected (open drain).
20	V _{DD}	Positive power supply terminal

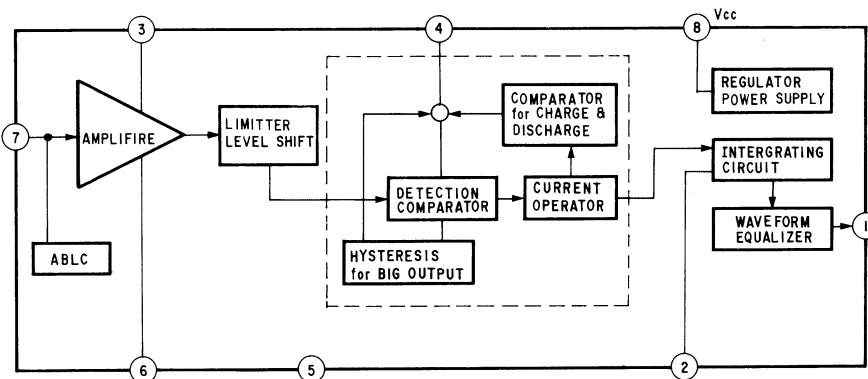
•MN3007 <Bucket Brigade Device (BDB)>



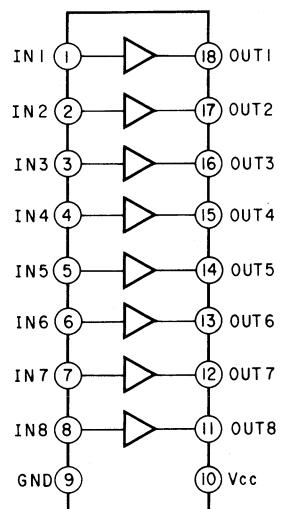
•MN3101 <BBB Clock Driver>



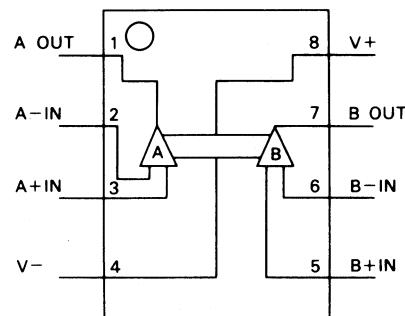
•LA7224 (Remote Control Receiver IC)



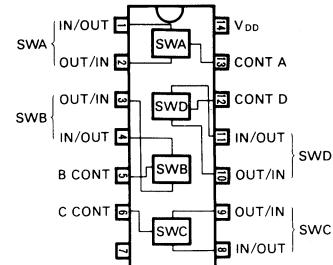
•LB1290 (Driver IC)



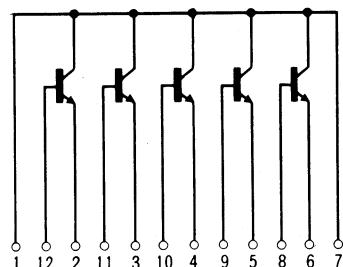
•NJM4558D/NJM4559D/M5218P <OP Amp.>



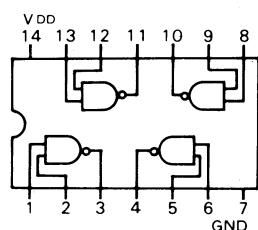
•LC4966/LC4066BH (Quad Bi-lateral SW. IC)



•TA76 (TR Array)



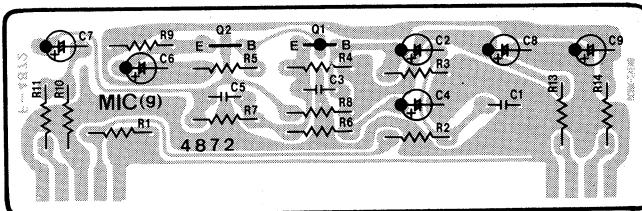
•μPD4011BC/M4011BP/BU4011B (NAND1~4)



4. PARTS LOCATION & PARTS LIST

4-1. F-4872 Mic Amp. Board (Stock No. 00893101)

Component Side

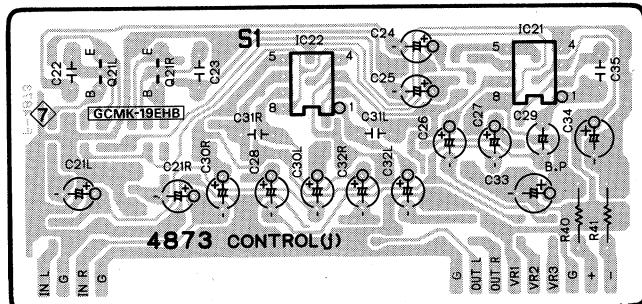


Parts List

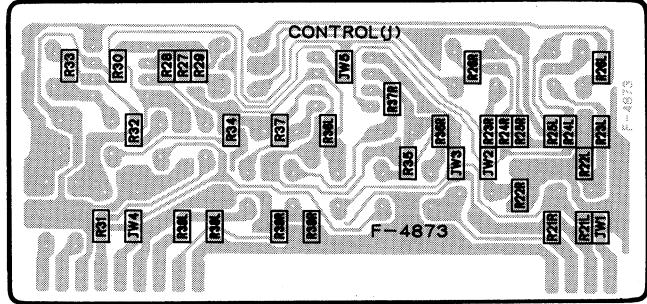
Parts No.	Stock No.	Description
•Transistor		
gQ1	46581601	2SA992
gQ2	46577801	2SC2320L
	or 46581701	2SC1845
△gR13	46229000	100Ω 1/2W N.I.R.
△gR14	46229000	100Ω 1/2W N.I.R.

4-2. F-4873 Multi Demention Board (Stock No. 00893201)

Component Side



Pattern Side <Chip Parts>



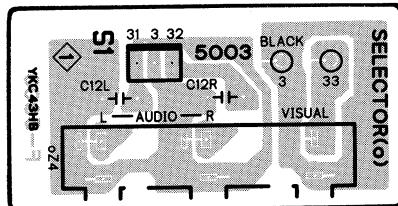
Parts List

Parts No.	Stock No.	Description
jQ21	46367101	2SC2603
or 46367301	2SC2458	
or 46391901	2SC2785	
or 48058801	2SC1740S	
•IC		
jIC21	03607700	NJM4558D
or 46580100	M5218P	
jIC22	03607700	NJM4558D
or 46580100	M5218P	
jW1	46741100	Cross Conductor (Chip)
jW2	46741100	Cross Conductor (Chip)
jW3	46741100	Cross Conductor (Chip)
jW4	46741100	Cross Conductor (Chip)
jW5	46741100	Cross Conductor (Chip)
jR21	46752400	100kΩ 1/8W Chip R.
jR22	46752400	100kΩ 1/8W Chip R.
jR23	46750000	10kΩ 1/8W Chip R.

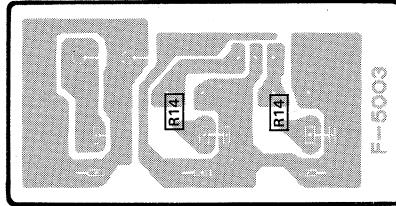
Parts No.	Stock No.	Description
jR24	46748400	2.2kΩ 1/8W Chip R.
jR25	46748400	2.2kΩ 1/8W Chip R.
jR26	46750600	18kΩ 1/8W Chip R.
jR27	46752200	82kΩ 1/8W Chip R.
jR28	46753000	180kΩ 1/8W Chip R.
jR29	46753000	180kΩ 1/8W Chip R.
jR30	46752200	82kΩ 1/8W Chip R.
jR31	46750000	10kΩ 1/8W Chip R.
jR32	46751600	47kΩ 1/8W Chip R.
jR33	46752800	150kΩ 1/8W Chip R.
jR34	46752800	150kΩ 1/8W Chip R.
jR35	46751600	47kΩ 1/8W Chip R.
jR36	46752800	150kΩ 1/8W Chip R.
jR37	46752800	150kΩ 1/8W Chip R.
jR38	46752800	150kΩ 1/8W Chip R.
jR39	46746800	470Ω 1/8W Chip R.
△jR40	00135300	47Ω 1/2W N.I.R.
△jR41	00135300	47Ω 1/2W N.I.R.
jC29	48103500	2.2μF 50V E.B.

4-3. F-5003 VIDEO IN & AUDIO IN Terminal Board

Component Side



Pattern Side <Chip Parts>

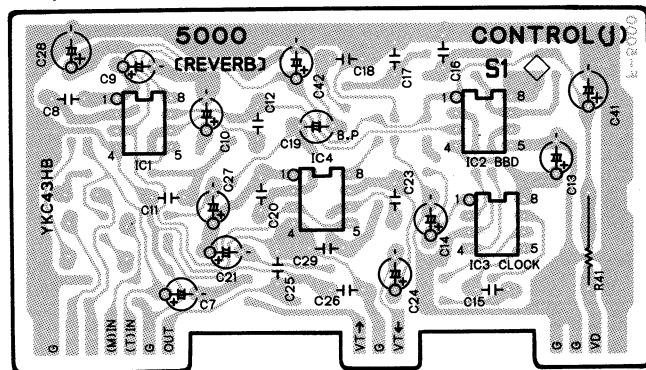


Parts List

Parts No.	Stock No.	Description
jR14	48210900	1.5kΩ 1/8W Chip R.
oZ4	48072500	3P Terminal, VIDEO IN, AUDIO IN

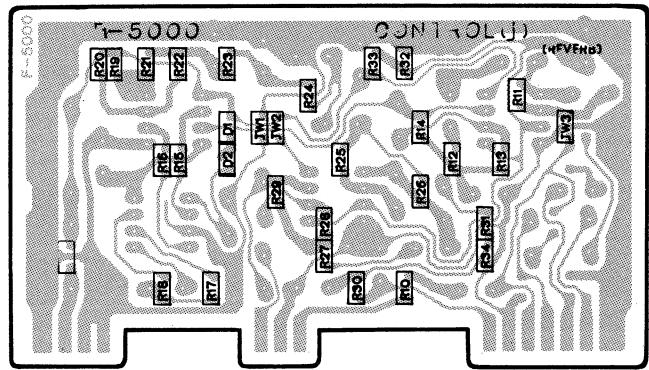
4-4. F-5000 Reverb Amp. Board (Stock No. 00891601)

Component Side

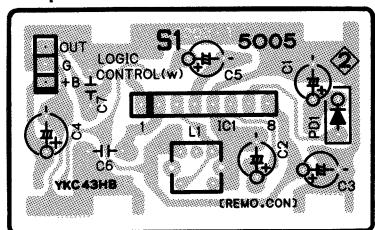
**Parts List**

Parts No.	Stock No.	Description
•IC		
jIC1	03607700	NJM4558D
	or 46580100	M5218P
jIC2	46221500	MN3007
jIC3	46080300	MN3101
jIC4	03607700	NJM4558D
	or 46580100	M5218P
•Diode		
jD1	46852000	RLS-73 (Chip)
jD2	46852000	RLS-73 (Chip)
jJW1	46741100	Cross Conductor (Chip)
jJW2	46741100	Cross Conductor (Chip)
jJW3	46741100	Cross Conductor (Chip)
jR10	46752400	100kΩ 1/8W Chip R.
jR11	46752400	100kΩ 1/8W Chip R.
jR12	46751000	27kΩ 1/8W Chip R.
jR13	46750200	12kΩ 1/8W Chip R.
jR14	46751000	27kΩ 1/8W Chip R.
jR15	46749200	4.7kΩ 1/8W Chip R.
jR16	46749200	4.7kΩ 1/8W Chip R.

Pattern Side <Chip Parts>

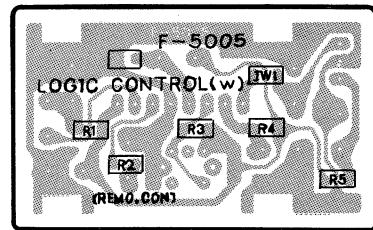
**4-5. F-5005 Remote Control Receiver Board (Stock No. 00892101)**

Component Side

**Parts List**

Parts No.	Stock No.	Description
•IC		
wIC1	48159100	LA7224
wPD1	48194400	Photo Diode PD-48PI-1
wJW1	48204000	Cross Conductor (Chip)
wR1	48210500	1kΩ 1/8W Chip R.
wR2	48206500	22Ω 1/8W Chip R.
wR3	48216100	220kΩ 1/8W Chip R.

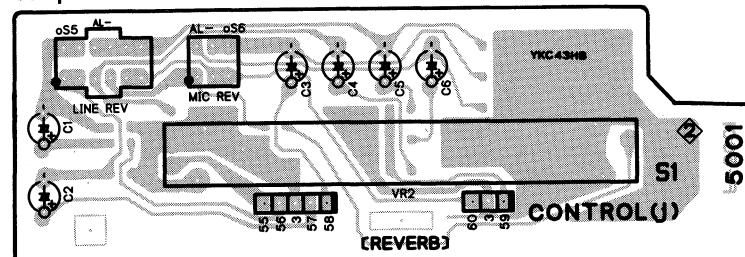
Pattern Side <Chip Parts>



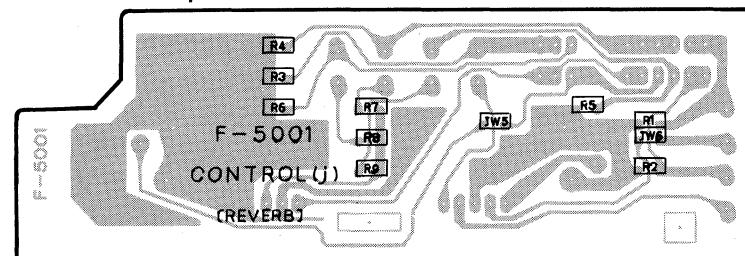
Parts No.	Stock No.	Description
wR4	48212900	10kΩ 1/8W Chip R.
wR5	48211300	2.2kΩ 1/8W Chip R.
wC1	48153300	10μF 16V E.C.
wC2	48153500	22μF 16V E.C.
wC3	48153700	47μF 16V E.C.
wC4	48153700	47μF 16V E.C.
wC5	48153900	4.7μF 25V E.C.
wL1	48179100	Coil (38kHz)

4-6. F-5001 LINE REVERB & MIC REVERB SW. Board

Component Side



Pattern Side <Chip Parts>



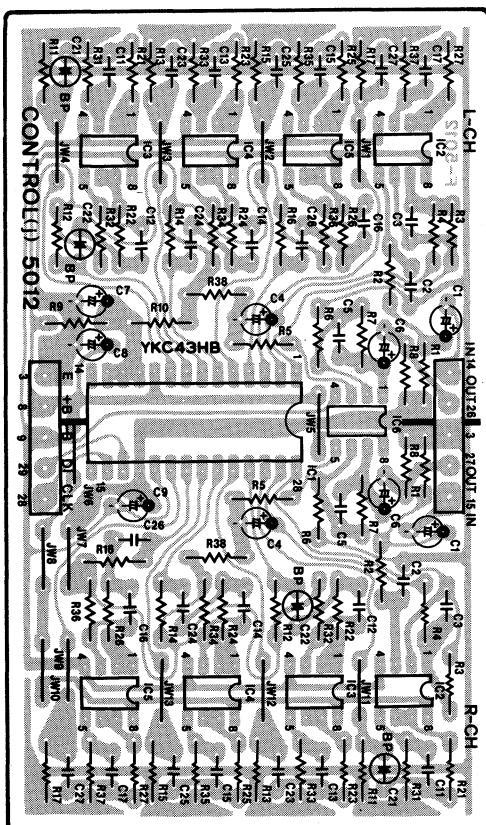
Parts List

Parts No.	Stock No.	Description
jJW5	48204000	Cross Conductor (Chip)
jJW6	48204000	Cross Conductor (Chip)
jR1	48216500	330kΩ 1/8W Chip R.
jR2	48216500	330kΩ 1/8W Chip R.
jR3	48216500	330kΩ 1/8W Chip R.
jR4	48216500	330kΩ 1/8W Chip R.
jR5	48216500	330kΩ 1/8W Chip R.

Parts No.	Stock No.	Description
jR6	48216500	330kΩ 1/8W Chip R.
jR7	48215300	100kΩ 1/8W Chip R.
jR8	48215300	100kΩ 1/8W Chip R.
jR9	48215300	100kΩ 1/8W Chip R.
jVR2	48196800	20kΩ (B) V.R., REVERB
oS5	46556300	Push SW., LINE
oS6	46556400	Push SW., MIC

4-7. F-5012 Graphic Equalizer Board (Stock No. 00892801)

Component Side

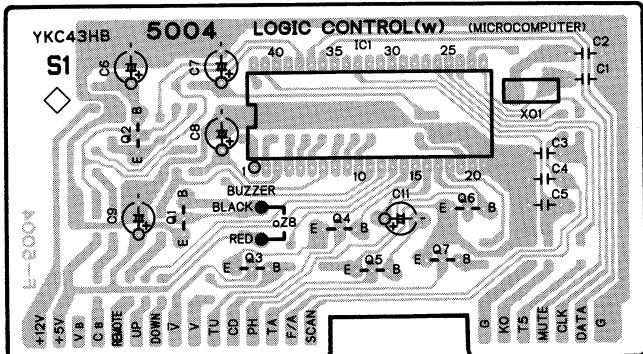


Parts List

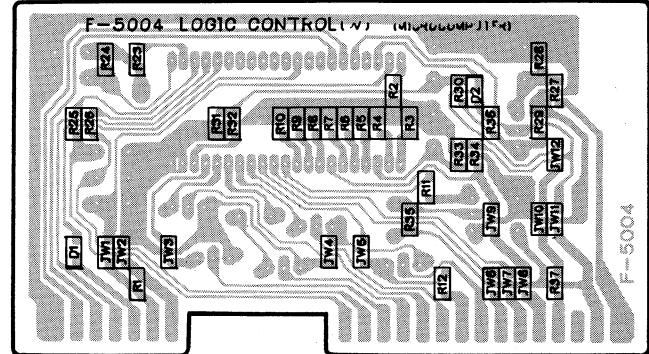
Parts No.	Stock No.	Description
jIC		
jIC1	48159300	LC7520
jIC2	03607700	NJM4558D
	or 07208900	NJM4558D-X
	or 46580100	M5218P
	or 46673800	M5218P
jIC3	03607700	NJM4558D
	or 07208900	NJM4558D-X
	or 46580100	M5218P
	or 46673800	M5218P
jIC4	03607700	NJM4558D
	or 07208900	NJM4558D-X
	or 46580100	M5218P
	or 46673800	M5218P
jIC5	03607700	NJM4558D
	or 07208900	NJM4558D-X
	or 46580100	M5218P
	or 46673800	M5218P
jIC6	03607700	NJM4558D
	or 07208900	NJM4558D-X
	or 46580100	M5218P
	or 46673800	M5218P
jC21	48103200	0.47μF 50V E.B.
jC22	48102900	0.15μF 50V E.B.

4-8. F-5004 Graphic Equalizer Control Board (Stock No. 00892001)

Component Side



Pattern Side <Chip Parts>



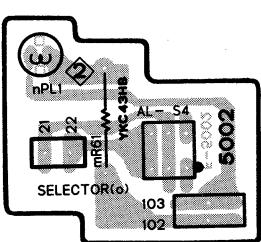
Parts List

Parts No.	Stock No.	Description
oZ8	07244900	Buzzer PKM12-4A2
•Transistor		
wQ1	46367101	2SC2603
	or 46367301	2SC2458
wQ2	46367101	2SC2603
	or 46367301	2SC2458
wQ3	46719900	DTC124
wQ4	46719900	DTC124
wQ5	46719900	DTC124
wQ6	46719900	DTC124
wQ7	46719900	DTC124
•IC		
wIC1	48159200	LC7060
wXO1	46668700	Ceramic Element KBR-400B
•Diode		
wD1	46852000	RLS-73 (Chip)
wD2	46852000	RLS-73 (Chip)
wJW1	46741100	Cross Conductor (Chip)
wJW2	46741100	Cross Conductor (Chip)
wJW3	46741100	Cross Conductor (Chip)
wJW4	46741100	Cross Conductor (Chip)
wJW5	46741100	Cross Conductor (Chip)
wJW6	46741100	Cross Conductor (Chip)
wJW7	46741100	Cross Conductor (Chip)
wJW8	46741100	Cross Conductor (Chip)
wJW9	46741100	Cross Conductor (Chip)

Parts No.	Stock No.	Description
wJW10	46741100	Cross Conductor (Chip)
wJW11	46741100	Cross Conductor (Chip)
wJW12	46741100	Cross Conductor (Chip)
wR1	46752400	100kΩ 1/8W Chip R.
wR2	46752400	100kΩ 1/8W Chip R.
wR3	46752400	100kΩ 1/8W Chip R.
wR4	46752400	100kΩ 1/8W Chip R.
wR5	46752400	100kΩ 1/8W Chip R.
wR6	46752400	100kΩ 1/8W Chip R.
wR7	46752400	100kΩ 1/8W Chip R.
wR8	46752400	100kΩ 1/8W Chip R.
wR9	46752400	100kΩ 1/8W Chip R.
wR10	46752400	100kΩ 1/8W Chip R.
wR11	46750000	10kΩ 1/8W Chip R.
wR12	46750000	10kΩ 1/8W Chip R.
wR23	46749200	4.7kΩ 1/8W Chip R.
wR24	46754800	1MΩ 1/8W Chip R.
wR25	46749200	4.7kΩ 1/8W Chip R.
wR26	46749200	4.7kΩ 1/8W Chip R.
wR27	46750800	22kΩ 1/8W Chip R.
wR28	46750800	22kΩ 1/8W Chip R.
wR29	46750000	10kΩ 1/8W Chip R.
wR30	46753200	220kΩ 1/8W Chip R.
wR32	46750000	10kΩ 1/8W Chip R.
wR33	46750400	15kΩ 1/8W Chip R.
wR34	46752400	100kΩ 1/8W Chip R.
wR35	46747600	1kΩ 1/8W Chip R.
wR36	46750000	10kΩ 1/8W Chip R.
wR37	46747600	1kΩ 1/8W Chip R.

4-9. F-5002 SPECTRUM ANALYZER SW. Board

Component Side

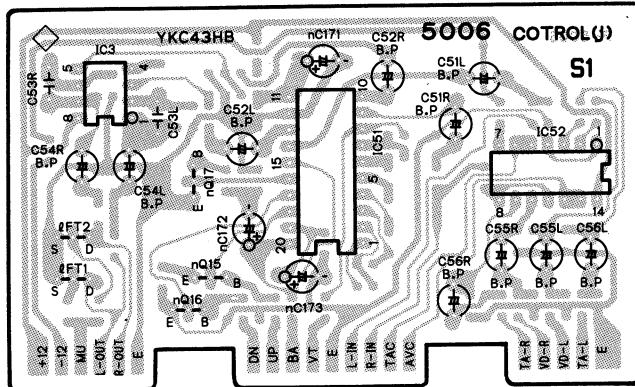


Parts List

Parts No.	Stock No.	Description
ΔmR61	46248700	33Ω 1W N.I.R.
nPL1	48180000	14V 0.1A Pilot Lamp
oS4	48169400	Push SW., SPECTRUM ANALYZER

4-10. F-5006 Electronic Sound Volume Board (Stock No. 00892201)

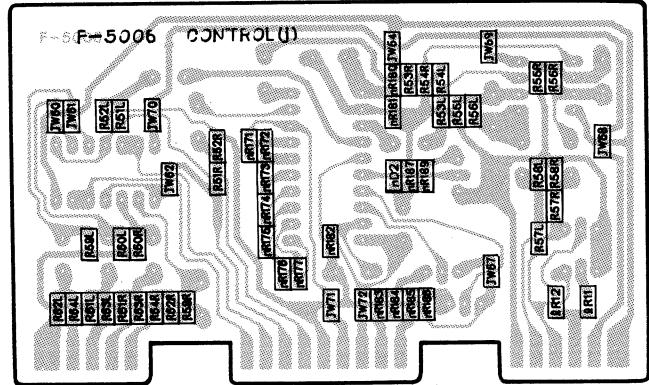
Component Side



Parts List

Parts No.	Stock No.	Description
•IC		
jIC3	03607700	NJM4558D
	or 46580100	M5218P
jIC51	46671600	LC7530
jIC52	46255000	LC4066BH
	or 48056800	LC4966
jJW60	46741100	Cross Conductor (Chip)
jJW61	46741100	Cross Conductor (Chip)
jJW62	46741100	Cross Conductor (Chip)
jJW64	46741100	Cross Conductor (Chip)
jJW67	46741100	Cross Conductor (Chip)
jJW68	46741100	Cross Conductor (Chip)
jJW69	46741100	Cross Conductor (Chip)
jJW70	46741100	Cross Conductor (Chip)
jJW72	46741100	Cross Conductor (Chip)
jR51	46747600	1kΩ 1/8W Chip R.
jR52	46753200	220kΩ 1/8W Chip R.
jR53	46747600	1kΩ 1/8W Chip R.
jR54	46752400	100kΩ 1/8W Chip R.
jR55	46752400	100kΩ 1/8W Chip R.
jR56	46750000	10kΩ 1/8W Chip R.
jR57	46748400	2.2kΩ 1/8W Chip R.
jR58	46753200	220kΩ 1/8W Chip R.
jR59	46753200	220kΩ 1/8W Chip R.
jR60	46753200	220kΩ 1/8W Chip R.
jR61	46753200	220kΩ 1/8W Chip R.
jR62	46753200	220kΩ 1/8W Chip R.
jR63	46744600	56Ω 1/8W Chip R.
jR64	46744600	56Ω 1/8W Chip R.
jC51	48103500	2.2μF 50V E.B.
jC52	48103500	2.2μF 50V E.B.
jC54	48103500	2.2μF 50V E.B.
jC55	48103500	2.2μF 50V E.B.
jC56	48103500	2.2μF 50V E.B.
•FET		
IFT1	46643500	2SK163-K1
	or 46643501	2SK163-K2

Pattern Side <Chip Parts>

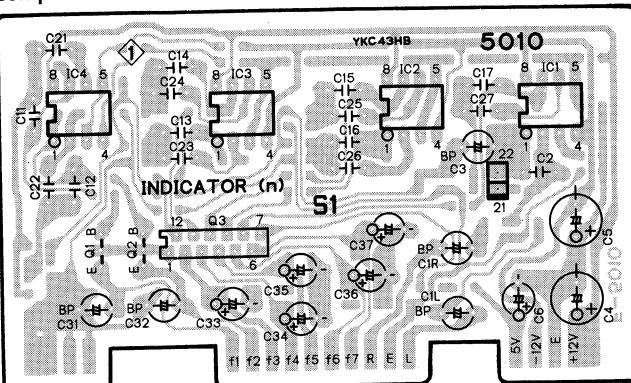


Parts No.	Stock No.	Description
IFT2	or 46643502	2SK163-L1
	or 46643503	2SK163-L2
	or 46643600	2SK117-O
	or 46643601	2SK117-Y
	46643500	2SK163-K1
	or 46643501	2SK163-K2
	or 46643502	2SK163-L1
	or 46643503	2SK163-L2
	or 46643600	2SK117-O
	or 46643601	2SK117-Y
IR11	46750000	10kΩ 1/8W Chip R.
IR12	46750000	10kΩ 1/8W Chip R.
•Transistor		
nQ15	46367101	2SC2603
	or 46367301	2SC2458
nQ16	46367101	2SC2603
	or 46367301	2SC2458
nQ17	46367101	2SC2603
	or 46367301	2SC2458
•Diode		
nD2	46852000	RLS-73 (Chip)
nR170	46749600	6.8kΩ 1/8W Chip R.
nR171	46748700	3kΩ 1/8W Chip R.
nR172	46749000	3.9kΩ 1/8W Chip R.
nR173	46749200	4.7kΩ 1/8W Chip R.
nR174	46749400	5.6kΩ 1/8W Chip R.
nR175	46749700	7.5kΩ 1/8W Chip R.
nR176	46750000	10kΩ 1/8W Chip R.
nR177	46751000	27kΩ 1/8W Chip R.
nR180	46749400	5.6kΩ 1/8W Chip R.
nR181	46749400	5.6kΩ 1/8W Chip R.
nR182	46751800	56kΩ 1/8W Chip R.
nR183	46750000	10kΩ 1/8W Chip R.
nR184	46752400	100kΩ 1/8W Chip R.
nR185	46750000	10kΩ 1/8W Chip R.
nR186	46752400	100kΩ 1/8W Chip R.
nR187	46749200	4.7kΩ 1/8W Chip R.
nR189	46750800	22kΩ 1/8W Chip R.

RG-900R RG-900R

4-14. F-5010 BPF Board (Stock No. 00892601)

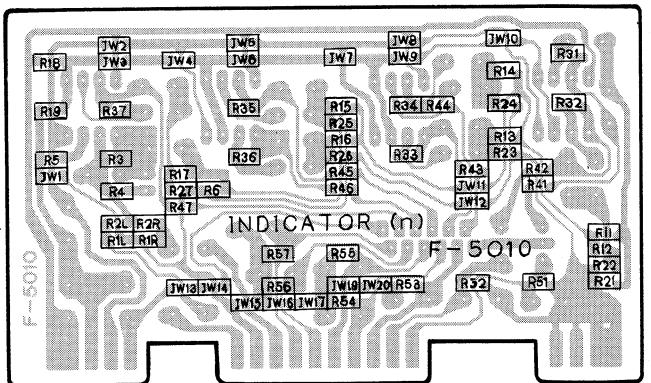
Component Side



Parts List

Parts No.	Stock No.	Description
• Transistor		
nQ1	46367101	2SC2603
	or 46367301	2SC2458
nQ2	46367101	2SC2603
	or 46367301	2SC2458
• IC		
nIC1	03607700	NJM4558D
	or 03613800	NJM4559D-D
nIC2	03607700	M5218P
	or 03613800	NJM4558D
	or 46580100	NJM4559D-D
nIC3	03607700	NJM4558D
	or 03613800	NJM4559D-D
nIC4	03607700	M5218P
	or 46580100	NJM4558D
	or 46580100	M5218P
nQ3	48123400	TA76
• Diode		
nD8	48201900	RLS-73 (Chip)
nJW1	48204000	Cross Conductor (Chip)
nJW2	48204000	Cross Conductor (Chip)
nJW3	48204000	Cross Conductor (Chip)
nJW4	48204000	Cross Conductor (Chip)
nJW5	48204000	Cross Conductor (Chip)
nJW6	48204000	Cross Conductor (Chip)
nJW7	48204000	Cross Conductor (Chip)
nJW8	48204000	Cross Conductor (Chip)
nJW9	48204000	Cross Conductor (Chip)
nJW10	48204000	Cross Conductor (Chip)
nJW11	48204000	Cross Conductor (Chip)
nJW12	48204000	Cross Conductor (Chip)
nJW14	48204000	Cross Conductor (Chip)
nJW15	48204000	Cross Conductor (Chip)
nJW16	48204000	Cross Conductor (Chip)
nJW17	48204000	Cross Conductor (Chip)
nJW19	48204000	Cross Conductor (Chip)
nJW20	48204000	Cross Conductor (Chip)
nR1	48216100	220kΩ 1/8W Chip R.
nR2	48215300	100kΩ 1/8W Chip R.
nR3	48216000	200kΩ 1/8W Chip R.

Pattern Side <Chip Parts>

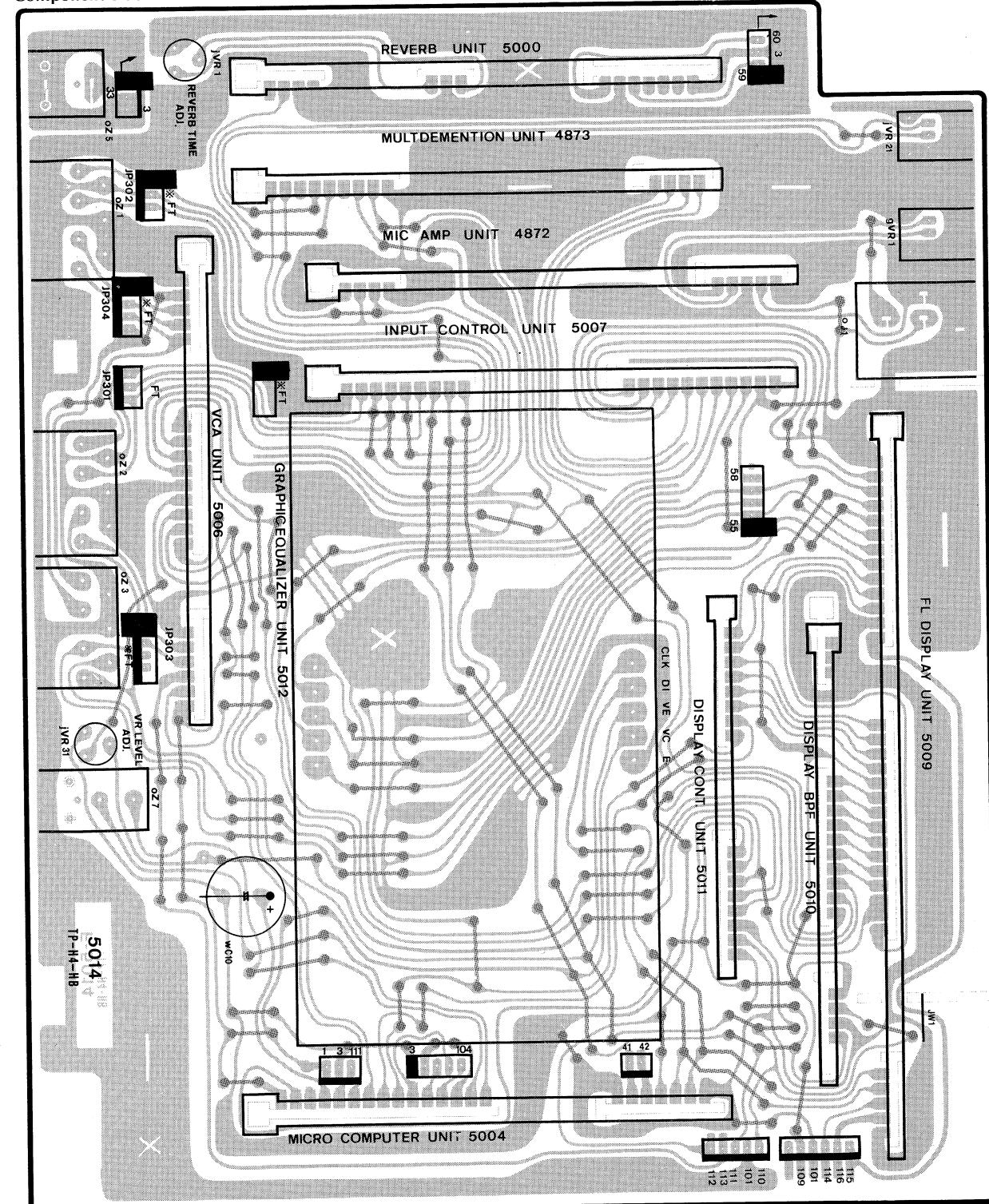


Parts List

Parts No.	Stock No.	Description
nR4	48215200	91kΩ 1/8W Chip R.
nR5	48213700	22kΩ 1/8W Chip R.
nR6	48215300	100kΩ 1/8W Chip R.
nR11	48215600	130kΩ 1/8W Chip R.
nR12	48214500	47kΩ 1/8W Chip R.
nR13	48214500	47kΩ 1/8W Chip R.
nR14	48214500	47kΩ 1/8W Chip R.
nR15	48214500	47kΩ 1/8W Chip R.
nR16	48214500	47kΩ 1/8W Chip R.
nR17	48214500	47kΩ 1/8W Chip R.
nR18	48214300	39kΩ 1/8W Chip R.
nR19	48210500	1kΩ 1/8W Chip R.
nR21	48213900	27kΩ 1/8W Chip R.
nR22	48212900	10kΩ 1/8W Chip R.
nR23	48212900	10kΩ 1/8W Chip R.
nR24	48212900	10kΩ 1/8W Chip R.
nR25	48212900	10kΩ 1/8W Chip R.
nR26	48212900	10kΩ 1/8W Chip R.
nR27	48212900	10kΩ 1/8W Chip R.
nR31	48217500	820kΩ 1/8W Chip R.
nR32	48216400	300kΩ 1/8W Chip R.
nR33	48216400	300kΩ 1/8W Chip R.
nR34	46753500	300kΩ 1/8W Chip R.
nR35	48216400	300kΩ 1/8W Chip R.
nR36	48216400	300kΩ 1/8W Chip R.
nR37	48216400	300kΩ 1/8W Chip R.
nR41	48212900	10kΩ 1/8W Chip R.
nR42	48212900	10kΩ 1/8W Chip R.
nR43	48212900	10kΩ 1/8W Chip R.
nR44	48212900	10kΩ 1/8W Chip R.
nR45	48212900	10kΩ 1/8W Chip R.
nR46	48212900	10kΩ 1/8W Chip R.
nR47	48212900	10kΩ 1/8W Chip R.
nR51	48215300	100kΩ 1/8W Chip R.
nR52	48215300	100kΩ 1/8W Chip R.
nR53	48215300	100kΩ 1/8W Chip R.
nR54	48215300	100kΩ 1/8W Chip R.
nR55	48215300	100kΩ 1/8W Chip R.
nR56	48215300	100kΩ 1/8W Chip R.
nR57	48215300	100kΩ 1/8W Chip R.
nC1	48103400	1μF 50V E.B.
nC3	48103400	1μF 50V E.B.
nC31	48103400	1μF 50V E.B.
nC32	48103400	1μF 50V E.B.

4-15. F-5014 Input/Output Terminal Board

Component Side

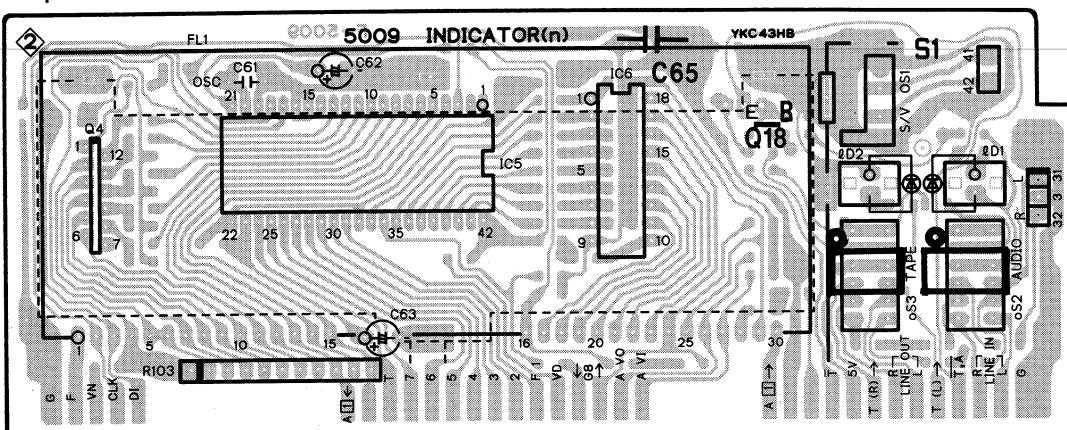


Parts List

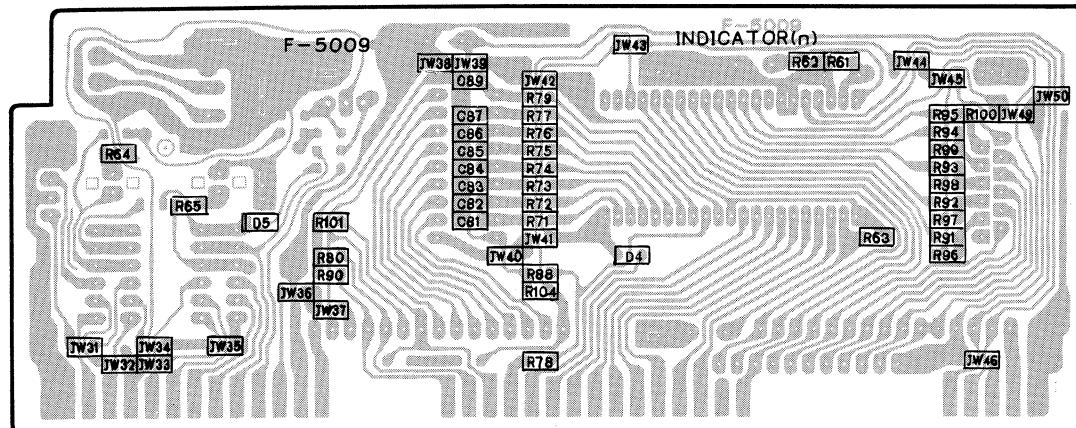
Parts No.	Stock No.	Description
gVR1	48198300	20kΩ (A) V.R., MIC LEVEL
jVR1	48199700	20kΩ (B) S.V.R., Reverb Time Adj.
jVR21	48198400	10kΩ (B) V.R., MULTI DIMENSION
nVR170	48199500	5KΩ (B) S.V.R., Volume Position Adj.
oJ1	07219700	Jack, MIC
oZ7	46547200	Jack, TUNER REMOTE
oZ1	46371500	4P Terminal, VIDEO S. IN/AUDIO OUT
oZ2	46371500	4P Terminal, SOURCE
oZ3	46371500	4P Terminal, TAPE
oZ5	48198000	1P Terminal, VIDEO OUT
wC10	46579700	4700μF 6.3V E.C.

4-16. F-5009 FL Display Board (Stock No. 00892501)

Component Side



Pattern Side <Chip Parts>



Parts List

Parts No.	Stock No.	Description
• Transistor nQ18	46367001 or 46367201	2SA1115 2SA1048
• IC nIC5 nIC6	48159400 48170500	LC7565 LB1290
nQ4	48123400	TA76
• Diode nD4 nD5 nD6 or 03111800	48201800 48201900 03111600 1S2473 1S1588	RLS-73 (Chip) RLS-73 (Chip) 1S2473 1S1588
nD7	48201900	RLS-73 (Chip)
nFL1	48175600	FL. Display Tube CP1058AGLR
• LED nLD1 nLD2	46176900 46176900	TLS-123 TLS-123
nJW31 nJW32 nJW33 nJW34 nJW35 nJW36 nJW37 nJW38 nJW39 nJW40 nJW41 nJW42	48204000 48204000 48204000 48204000 48204000 48204000 48204000 48204000 48204000 48204000 48204000	Cross Conductor (Chip) Cross Conductor (Chip)

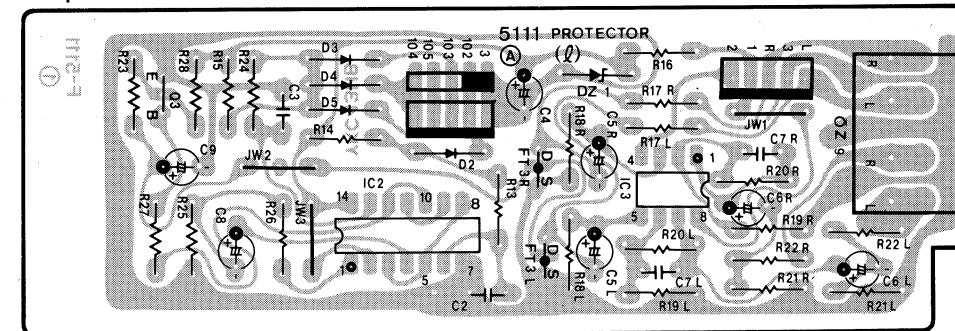
Parts List <F-5009>

Parts No.	Stock No.	Description
nR101	48215300	100kΩ 1/8W Chip R.
nR103	46354200	100kΩX10 1/8W A.R.
nR104	48215300	100kΩ 1/8W Chip R.
nR301	48213700	22kΩ 1/8W Chip R.
nR302	48215300	100kΩ 1/8W Chip R.
nC62	48152100	47μF 6.3V E.C.
nC63	48155200	0.1μF 50V E.C.
nC81	46778900	220pF 50V Chip C.
nC82	46778900	220pF 50V Chip C.

Parts No.	Stock No.	Description
nC83	46778900	220pF 50V Chip C.
nC84	46778900	220pF 50V Chip C.
nC85	46778900	220pF 50V Chip C.
nC86	46778900	220pF 50V Chip C.
nC87	46778900	220pF 50V Chip C.
nC89	46778900	220pF 50V Chip C.
oS1	46396700	Push SW., SOURCE/VIDEO S.
oS2	46556300	Push SW., VIDEO
oS3	46556300	Push SW., TAPE

4-17. F-5111 SOURCE REC Terminal Board (Stock No. 00914601)

Component Side



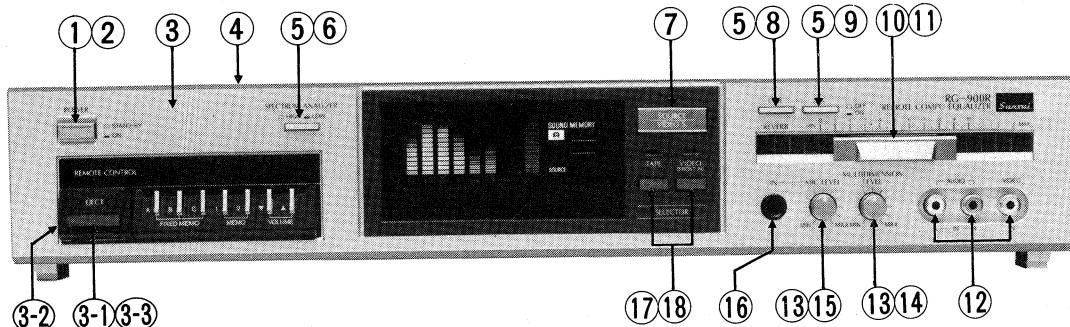
Parts List

Parts No.	Stock No.	Description
• FET IFT3	46421200 or 46421201 or 46421202	2SJ103-Y 2SJ103-GR 2SJ103-BL
• IC IIC2	46427200 or 46631900 or 48063700	μPD4011BC M4011BP BU4011B
IIC3	03607700 or 46580100	NJM4558D M5218P
• Diode ID2	03117600 or 46086000	1S2473T77 1S1588TP-3

Parts No.	Stock No.	Description
ID3	03117600 or 46086000	1S2473T77 1S1588TP-3
ID4	03117600 or 46086000	1S2473T77 1S1588TP-3
ID5	03117600 or 46086000	1S2473T77 1S1588TP-3
• Zener Diode IDZ1	46111100 or 46111200	05Z5.1-X 05Z5.1-Y
oZ9	46371500	4P Terminal, SOURCE REC

5. OTHER PARTS

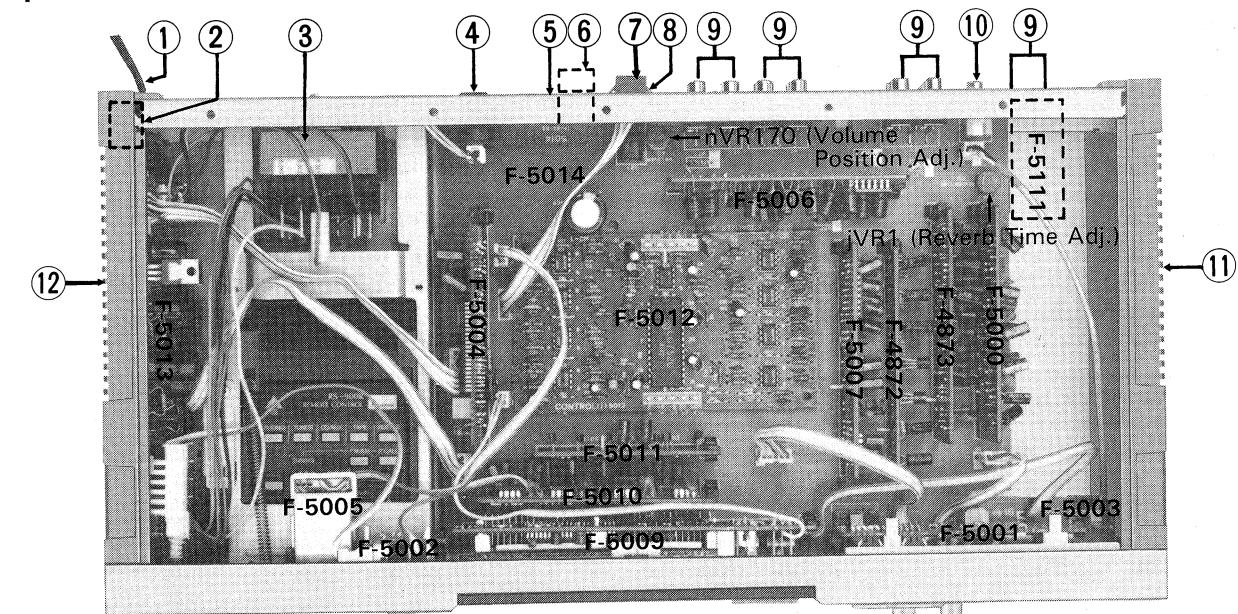
5-1. Front View



Parts List <Front View>

Parts No.	Stock No.	Description
2	48186800	Push SW., POWER (XX, XX-V, EU, BS, AS)
	48186900	Push SW., POWER (UL, CSA)
6	48169400	Push SW., SPECTRUM ANALYZER
7	46396700	Push SW., SOURCE/VIDEO S.
8	46556300	Push SW., LINE
9	46556400	Push SW., MIC
11	48196800	20kΩ (B) VR., REVERB
12	48072500	3P Terminal, VIDEO IN, AUDIO IN
14	48198400	10kΩ (B) V.R., MULTIDIMENSION LEVEL
15	48198300	20kΩ (A) V.R., MIC LEVEL
16	07219700	Jack, MIC
17	46556300	Push SW., VIDEO, TAPE
18	47747200	Push Knob., TAPE, VIDEO
<Silver Model>		
1	47747000	Knob, POWER
3	47860400	Front Panel Ass'y
3-1	47856200	Knob, EJECT
3-2	47856000	Knob Guide, EJECT
3-3	47895700	Spring, EJECT
4	47854700	Bonnet
5	47915200	Push Knob, SPECTRUM ANALYZER, LINE, MIC
10	47857000	Slide Knob Ass'y, REVERB
13	47794600	Knob, MIC LEVEL, MULTIDIMENSION LEVEL
<Black Model>		
1	47747100	Knob, POWER
3	47860500	Front Panel Ass'y
3-1	47856200	Knob, EJECT
3-2	47856000	Knob Guide, EJECT
3-3	47895700	Spring, EJECT
4	47872700	Bonnet
5	47915100	Push Knob, SPECTRUM ANALYZER, LINE, MIC
10	47857100	Slide Knob, Ass'y, REVERB
13	07895410	Knob, MIC LEVEL, MULTIDIMENSION LEVEL

5-2. Top View

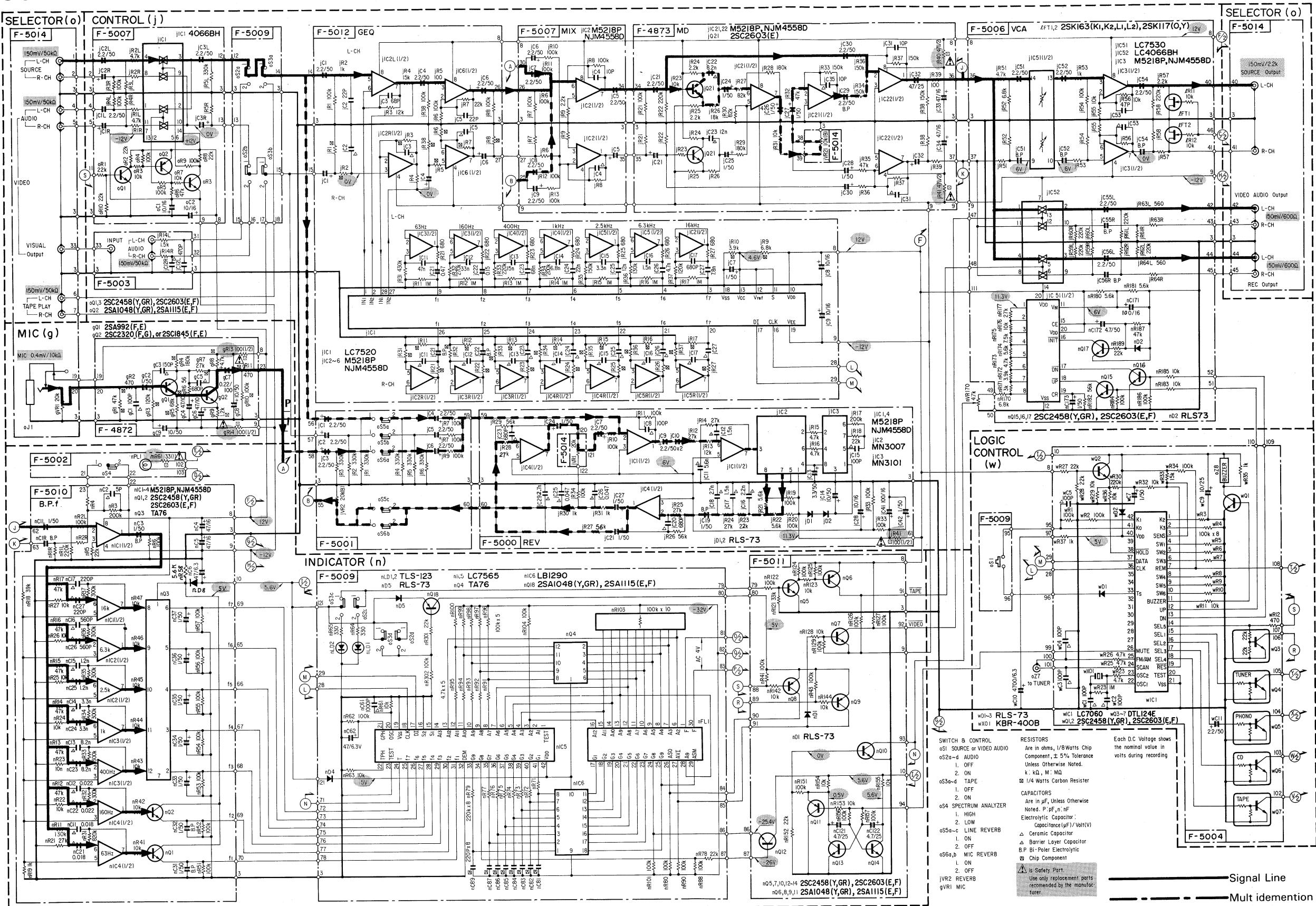


Parts List <Top View>

Parts No.	Stock No.	Description
△ 1	46604400	Power Supply Cord (XX, XX-V, UL)
△ 2	48187700	Power Supply Cord (CSA)
△ 3	38004500	Power Supply Cord (EU)
△ 4	38004300	Power Supply Cord (BS)
△ 5	07204200	Power Supply Cord (AS)
△ 6	47831100	Cord Cover
△ 7	15020701	Power Transformer (XX)
△ 8	15020709	Power Transformer with Voltage Selector Socket (XX-V)
△ 9	15020702	Power Transformer (UL, CSA)
△ 10	15020705	Power Transformer (EU, BS, AS)
△ 11	46364900	AC Outlet (XX, XX-V, UL)
△ 12	48184000	AC Outlet (CSA)
△ 13	46161000	AC Outlet (EU)
△ 14	46364800	AC Outlet (BS)
△ 15	46580600	AC Outlet (AS)
△ 16	07204700	Slide SW., VOLTAGE SELECTOR (EU, BS, AS)
△ 17	48175200	Plug, VOLTAGE SELECTOR (XX-V)
△ 18	16416500	Socket, REMOTE CONTROL
△ 19	46547200	Jack, TUNER REMOTE
△ 20	46371500	4P Terminal, VIDEO S. IN/AUDIO OUT, SOURCE, TAPE, SOURCE REC
△ 21	48198000	1P Terminal, VIDEO OUT
△ 22	47873010	Right Side Panel Ass'y
△ 23	47873110	<Silver Model> Right Side Panel Ass'y
△ 24	47872810	<Black Model> Left Side Panel Ass'y
△ 25	47872910	<Silver Model> Left Side Panel Ass'y
△ 26	47872910	<Black Model>

6. SCHEMATIC DIAGRAM

6-1. Audio Amp. Section



1
2
3
4
5

2SA992 2SC1845 2SA1115
2SC2320L
2SA935 2SC1740S
2SD313AL 2SD1061
2SB825 2SJ103
2SK117 2SK163
NJM78L05A
LB1290

μPD4011BC M4011BP
BU4011B M5218P
LC4066BH MN3007
LC4966 MN3101
LC7060 NJM4558D
LC7520 NJM4558D
TC9148P

Dot or Slit or Line

TA76

LA7224 1S1588
1S2473 10E-2

DBB10-B
05213 05233
0525.1

7. ADJUSTMENTS (See Top View on Page 16)

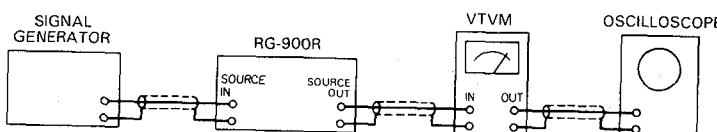
7-1. Adjustment of Reverb Level

- SETTING:** 1) Connect the measurement units as Fig. 7-1.
2) Set the control knob as follows.

SELECTOR..... SOURCE
EQUALIZER..... FLAT
REVERB DEPTH..... Max.

REVERB LINE ON
REVERB MIC OFF
VOL..... Max.

Fig. 7-1



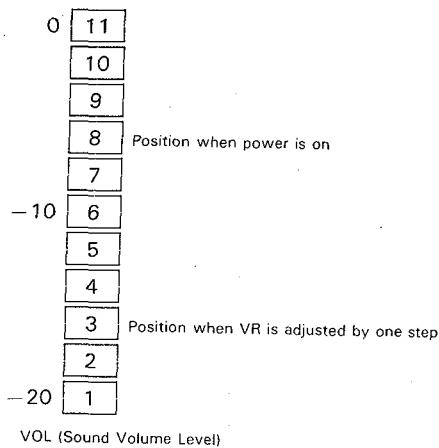
INPUT SIGNAL	MEASURE OUTPUT	STEP	ADJUSTMENT
800 Hz 1.5V SG SOURCE IN	SOURCE OUT VTVM, Scope	1	Turn the semi-variable resistor jVR1 (F-5014) fully clockwise.
		2	Push LINE INPUT switch to be TAPE.
		3	Confirm that the reverberation circuit starts to oscillate, and its wave form comes out from SOURCE OUT.
		4	Turn jVR1 slowly counterclockwise until the oscillation stops.

Note: When the oscillation at STEP3 is not occurred, STEP4 is not necessary.

7-2. Adjustment of Electronic Sound Volume Level Position Indication

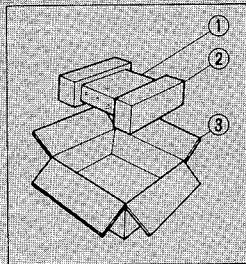
- (1) With power turned on, rotate the variable resistor nVR170 so that VOL indicators from 1 to 8 come simultaneously.
(Preliminary adjustment)
- (2) Continuously depress VOL-DOWN key of REMOTE CONTROL RS-900R to allow all the VOL indicators to go off.
- (3) Depress VOL-UP key once.
- (4) Adjust the variable resistor nVR170 so that the VOL indicators from 1 to 3 come on simultaneously.

•VOL indicators



8. PACKING LIST

Parts No.	Stock No.	Description
1	47859300	Vinyl Cover
2	07965300	Styrofoam Packing
3	47855000	Carton Case <Silver Model> (XX, UL, CSA, EU, BS, AS)
	47855100	Carton Case <Black Model> (XX, UL, CSA, EU, BS, AS)
	47854800	Carton Case <Silver Model> (XX-V)
	47854900	Carton Case <Black Model> (XX-V)



9. ACCESSORY LIST

Stock No.	Description
48197700	Remote Cable
07193400	PJP Cord
or 38103300	PJP Cord
48181700	Mini Pin Plug Cord
46969300	Operating Instruction
	Remote Control Unit RG-900R

Sansui

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SANSUI ELECTRONICS CORPORATION: .

SANSUI ELECTRONICS (U.K.) LTD.: .

SANSUI ELECTRONICS G.M.B.H.: .

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