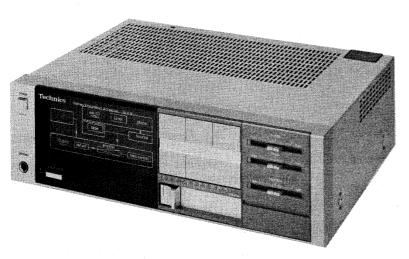
Service Man

Stereo Integrated Amplifier

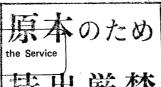


[EX],[EK],[EW],[EF],[EB] [EH],[Ei],[XA],[XL],[EGA]

> SU-6(K)[EX],[EW],[EK] [EH],[XA],[EGA]



- The colors of this model include silver and black.
- The black type model is provided with (K) in Manual.



- * [EX] is available in Scandinavia.
- * [EK] is available in United Kingdom.
- * [EW] is available in Switzerland.
- [EF] is available in France.
- * [EB] is available in Belgium.
- * [EH] is available in Holland.
- * [Ei] is available in Italy.
- * [XA] is avialable in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- * [XL] is available in Australia.
- * [EGA] is available in F.R. Germany.

Specifications (Specifications are subject to change without notice for further improvement.)

(DIN 45 500)

■ AMPLIFIER SECTION

40 Hz~20 kHz continuous power output $2 \times 35W (8\Omega)$ both channels driven 1 kHz continuous power output $2 \times 40W (8\Omega)$ both channels driven **Total harmonic distortion** $0.05\% (8\Omega)$ rated power at 40 Hz~20 kHz 0.8% (8Ω) rated power at 1 kHz 0.03% (8Ω) half power at 20 Hz $^{\sim}$ 20 kHz 0.005% (8Ω) half power at 1 kHz Intermodulation distortion rated power at 60 Hz: 7 kHz=4:1, SMPTE, 8Ω 0.03% Power bandwidth 10 Hz~25 kHz (8Ω) both channels driven, -3 dB 0.8 mV Residual hum and noise 40 (8Ω) **Damping factor**

Input sensitivity and impedance $2.5 \text{ mV}/47 \text{k}\Omega$ **PHONO** 150 mV/27k Ω TUNER, AUX/CD/VIDEO 150 mV/27k Ω **TAPE** 150 mV

PHONO maximum input voltage (1 kHz, RMS)

rated power (8Ω)

73 dB (IHF, A: 72 dB) **PHONO** TUNER, AUX/CD/VIDEO, TAPE 89 dB (IHF, A: 98 dB) Frequency response

PHONO

RIAA standard curve ±0.8 dB (30 Hz~15 kHz)

TUNER, AUX/CD/VIDEO, TAPE 10 Hz~80 kHz (-3 dB)

Tone controls

50 Hz, +10 dB~ −10 dB **BASS** 20 kHz, +10 dB~ -10 dB TREBLE

Output voltage and impedance

150 mV **REC OUT**

Channel balance, AUX/CD/VIDEO 250 Hz~6,300 Hz +1 dB Channel separation, AUX/CD/VIDEO 1 kHz 55 dB 420 mV/330Ω

Headphones output level and impedance 8Ω~16Ω Load impedance

GENERAL

Power consumption

200W

Power supply

For United Kingdom and Australia AC 50Hz/60 Hz, 240V AC 50 Hz/60 Hz, 220V For continental Europe

For other areas AC 50 Hz/60 Hz, 110V/120V/220V/240V $315 \times 99 \times 245 \text{ mm}$ Dimensions (W \times H \times D)

 $(12-13/32" \times 3-29/32" \times 9-21/32")$

4.7 kg

Weight

(10.4 lb.)

Note:

Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).

Technics

Matsushita Electric Trading Co., Ltd. P.O. Box 288, Central Osaka Japan

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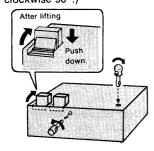
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FEATURE

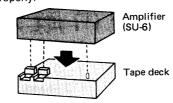
- "Super bass" circuit capable of reproducing grave low sound with compact speakers.
- Direct operation allowing you to select the desired source by one touch.
- Direct connection system that makes the connection when set up.
- Signal processing display that indicates the condition of program source.
- Electronic protection circuit that protects the speakers and amplifier from breakdown.

■ STANDARD CONNECTION METHOD WITH DIRECT CONNECTOR

- Lift the direct connector on the tape deck. Push it straight down to lock it into place.
- ② Remove the stabilizing pin from the back panel. (Turn counterclockwise 90° and pull.)
- ③ Insert the pin into the top panel. (Push in and turn clockwise 90°.)



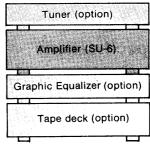
① Lower the amplifier onto the tape deck. Line up the direct connector and stabilizing pin properly.



- $\begin{tabular}{ll} \hline \begin{tabular}{ll} \hline \end{tabular} \end{$
- ⑥ Connect the turntable and speakers with their respective cords.

Notes:

 When using the direct connectors, do not use pin cords. When using the graphic equalizer, place it between the amplifier and the tape deck.

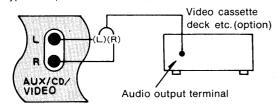


- Position the units in a straight column to avoid twisting and breaking the direct connectors.
- If this unit is installed in a rack, first make the direct connector connections.

"AUX/CD/VIDEO" terminals

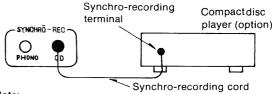
Use these terminals to connect a tape deck (playback only), compact disc (digital audio disc) player, or audio output of a video unit.

If the video unit has only one audio output terminal, use a Y-type cord (monaural to stereo) to make the connection.



Synchro-recording terminal

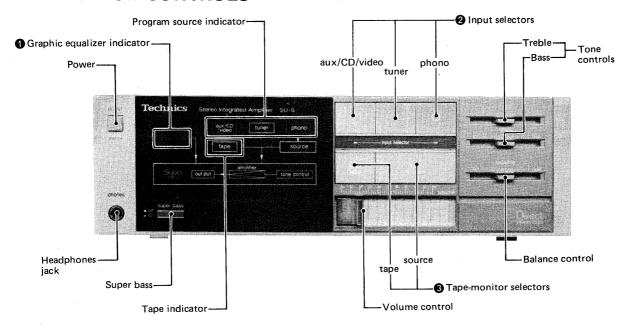
In addition to the turntable, the Technics compact disc player (model SL-P7) can be connected by using the synchro-recording connection cord (option).



Note:

If the model SL-3 or SL-6 turntable is used, an extension cord (option) is needed.

LOCATION OF CONTROLS



• Graphic equalizer indicator (graphic EQ)

This indicator will illuminate when the Technics graphic equalizer (SH-E4) is connected by the direct connector and the power of the equalizer is switched on.

2 Input selectors (input selector)

aux/CD/video:

Press this button to listen to equipment connected to the auxiliary input terminals ("AUX/CD/VIDEO").

tuner:

Press this button to listen to radio broadcasts.

phono:

Press this button to listen to phono discs.

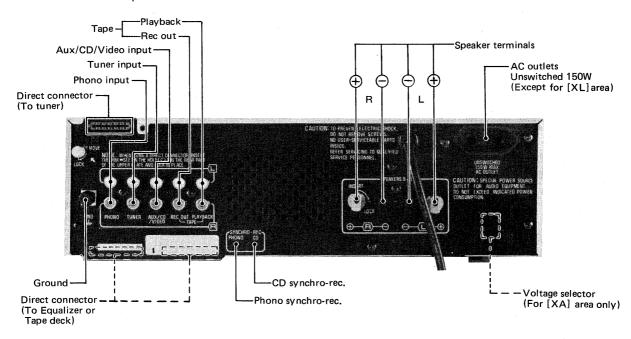
Tape-monitor selectors (tape)

source:

Press this button to listen to a phono disc or radio broadcast, or to listen to equipment connected to the auxiliaryinput terminals ("AUX/CD/VIDEO").

tape:

Press this button to play back or monitor the sound from a tape deck, or to use a graphic equalizer, etc. connected to the TAPE terminals.



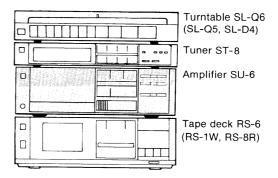
- The power supply for this unit varies depending upon the areas. Also, the parts used for power supply are different. So, refer to the circuit diagram (Separate service manual: Order No. HAD83122678C8-A) and the replacement parts list.
- [XA] area is provided with voltage selector.
- 240V (50/60Hz) for Australia and United Kingdom.
- 220V (50/60Hz) for Continental Europe.
- 110V/120V/220V/240V (50/60Hz) for other [XA] areas.
- Phono input capacitance is about 150pF.

DIRECT OPERATION

"Direct operation" means that, once each component has been prepared for operation, any operation can be conveniently selected and started by one-touch operation.

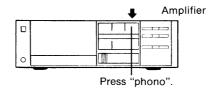
This function is possible only by the combination of Technics components shown in the figure at the right, and which have been connected by direct connectors.

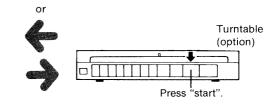
Operation at the amplifier, or at the individual components, is possible.



• To listen to discs...

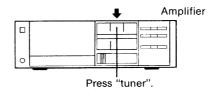
Press the "phono" button on the amplifier or the "start" button on the turntable.

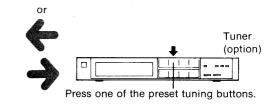




• To listen to radio broadcasts...

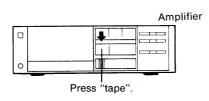
Press the "tuner" button on the amplifier or one of the preset tuning buttons on the tuner.

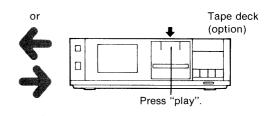




• To listen to a tape...

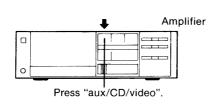
Press the "tape" button on the amplifier or the "play" button on the tape deck.

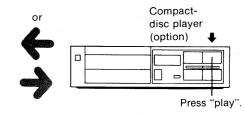




To listen to a compact-disc player... (To listen to the component connected to the AUX/CD/VIDEO terminal on the rear panel)

Press the "aux/CD/video" button on the amplifier or the "play" button on the compact-disc player.



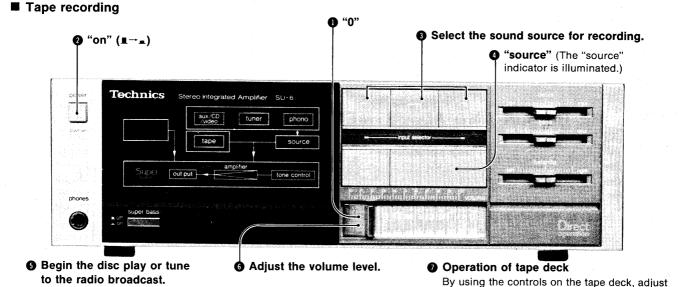


Notes:

- Do not switch the tuner on while playing a disc or tape, or while tape recording, because to do so will cause the "tuner" input selector to be automatically activated.
- 2. If, while listening to a disc or radio broadcast, the tape deck is switched off and the tape indicator is illuminated, press the
- tape-monitor selector marked "source".
- Even though another input selector is pressed while listening to a turntable or a compact-disc player, the turntable or compact-disc player will continue to operate; be sure to stop

■ TAPE RECORDING AND TAPE-TO TAPE RECORDING

The level of the disc or radio broadcast signal emitted from the recording output terminals ("REC OUT") on the rear panel is always at a constant level, unaffected by the settings of other controls and switches.



■ Tape-to-tape recording

By using two tape decks, tape-to-tape recordings can be made.

1. Connection

Connect a playback tape deck to the "AUX/CD/VIDEO" terminal on the rear panel of this unit.

SYNCHRO-RECORDING

■ Synchro-recording from a turntable

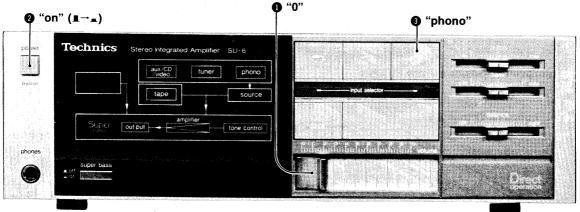
When a turntable from which synchro-recordings are possible is connected, the tape recording will begin at the moment when the stylus descends to the disc surface, and will stop when the stylus is lifted from the disc surface.

2. Operation

According to step ③ above, select "aux/CD/video", and playback, using a playback tape deck according to step ⑤.

the recording level. Then begin recording.

"Synchro-recording" is a convenient feature which can be used to automatically begin tape recording at the moment when a turntable or compact-disc player performance begins. Before beginning the recording, be sure to adjust the recording level. Note that synchro-recording is only possible when using a Technics turntable or compact disc player which has the synchro-recording terminals.



Operation of tape deck

By using the controls on the tape deck, adjust the recording level.

• Prepare the turntable for disc play.

The tape recording will begin when the "start" button on the turntable is pressed.

Synchro-recording from a compact-disc player

When a compact-disc player from which synchro-recordings are possible is connected, the tape recording will begin at the moment the compact disc begins to rotate, and will stop when the disc stops.

In step ③ above, press the "aux/CD/video" button; in step ⑤, prepare the compact-disc player for disc play; and in step ⑥, press the "play" button of the compact-disc player.

PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlines below:

- 1. Turn off the power,
- 2. Determine the cause of the problem and correct it.
- 3. Turn on the power once again after one minute.

-Not

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

■ BEFORE REPAIR AND ADJUSTMENT

- 1. Turn off the power supply and short-circuit of power supply capacitors (C406 and C407, $6800\mu\text{F}$) at resistance (about 10Ω , 5W) in order to discharge the charged voltage. Do not short between C406 and C407 by screwdriver. It may damage the component.
- 2. Before turning on the power supply after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current is free of abnormality. The consumed current at 60Hz/50Hz in no signal mode is shown below with respect to supply voltage 110V/120V/220V/240V.

Power supply	voltage	AC110V	AC120V	AC220V	AC240V		
	50 Hz	230 ~ 460mA	220 ~ 440mA	125 ~ 250mA	110 ~ 220mA		
Cousumed current	60 Hz	225 ~ 450mA	210 ~ 420mA	120 ~ 240mA	105 ~ 210mA		

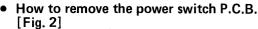
DISASSEMBLY INSTRUCTIONS

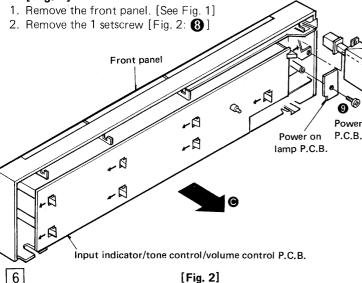
- How to remove the cabinet [Fig. 1]
- 1. Remove the 5 setscrews [Fig. 1: \bigcirc \sim \bigcirc] of the cabinet.
- 2. Remove the cabinet upward. [See Fig. 1: (A)]

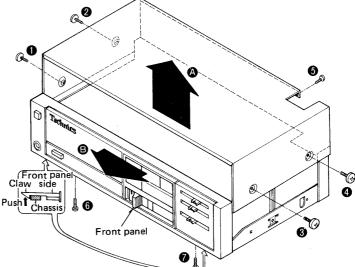
How to remove the front panel [Fig. 1]

- 1. Remove the cabinet. [See Fig. 1]
- 2. Remove the screws **6**, **7**, and two claws at the bottom of front panel.
- 3. Remove the front panel in the direction of the arrow **(B)** in Fig. 1.

(Remove the connector of flat cable as needed. When removing, put a mark on it to prevent faulty insertion.)







[Fig. 1]

- How to remove power "on" lamp P.C.B. [Fig. 2]
- 1. Remove the front panel. [See Fig. 1]
- 2. Remove the 1 setscrew [Fig. 2: 9]
- Power switch P.C.B. How to remove the input indicator/tone control/volume control P.C.B. [Fig. 2, 3]
 - 1. Remove the front panel. [See Fig. 1]
 - 2. Remove the power switch P.C.B. [See Fig. 2]
 - 3. Release the 8 claws in the direction of arrow and pull out the P.C.B. [Fig. 2]

NOTE:

When fitting the front panel, match the depressions of knobs with the projections on the volume sides of sound volume and tone control. [See Fig. 3]

How to remove the input selector switch P.C.B. [Fig. 4]

- 1. Remove the front panel. [See Fig. 1]
- 2. Remove the input indicator/tone control/volume control P.C.B. [See Fig. 2, 3]
- 3. Remove the 2 setscrews [Fig. 4: (1), (1)] and release the 4 claws in the direction of arrow (0), and pull out the P.C.B.

• How to remove the power IC. [Fig. 5]

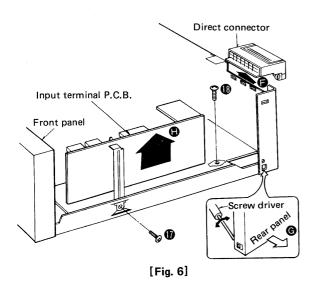
- 1. Remove the cabinet [See Fig. 1]
- 2. Remove the screws (2) ~ (1) and (4) are red) and shift the main P.C.B. toward the rear panel in the direction of arrow (5) to remove it upward from the chassis.
- 3. Unsolder of the power IC.
- 4. Remove the 2 setscrews [Fig. 5: 15], 16] used to secure the power IC on the heat sink, and then pull the power IC.

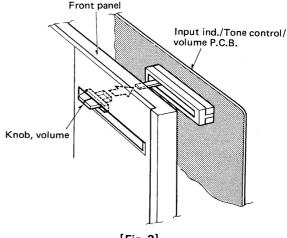
NOTE:

When mounting the power IC, apply silicone compound or equivalent heat diffuser to the rear side of power IC, and then follow the step 1 \sim 3 reversely.

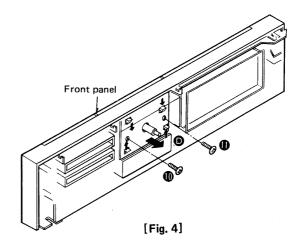
• How to remove the input terminal P.C.B. [Fig. 6 and Fig. 7]

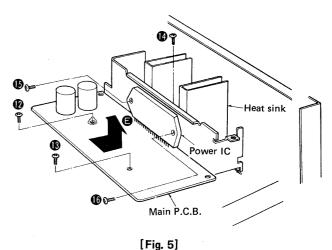
- 1. Remove the cabinet. [See Fig. 1]
- 2. Remove the direct connector in the direction of arrow [See Fig. 6]
- 3. Remove the 2 setscrews. [Fig. 6: **17**, **18**]
- 4. Remove the 5 setscrews. [Fig. 7: $(9) \sim (3)$]
- 5. Remove the stopper on either side of rear panel by use of a screwdriver, and then remove the rear panel in the direction of arrow **6** . [See Fig. 6]
- 6. Remove the input terminal P.C.B. in the direction of arrow **a** . [See Fig. 6]

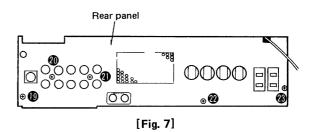




[Fig. 3]









For United Kingdom

The "EK" indication is shown on the name plate.

Important

THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

BLUE:

NEUTRAL

BROWN:

LIVE

As the colours of the wires in the mains lead of this unit may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

• For Australia

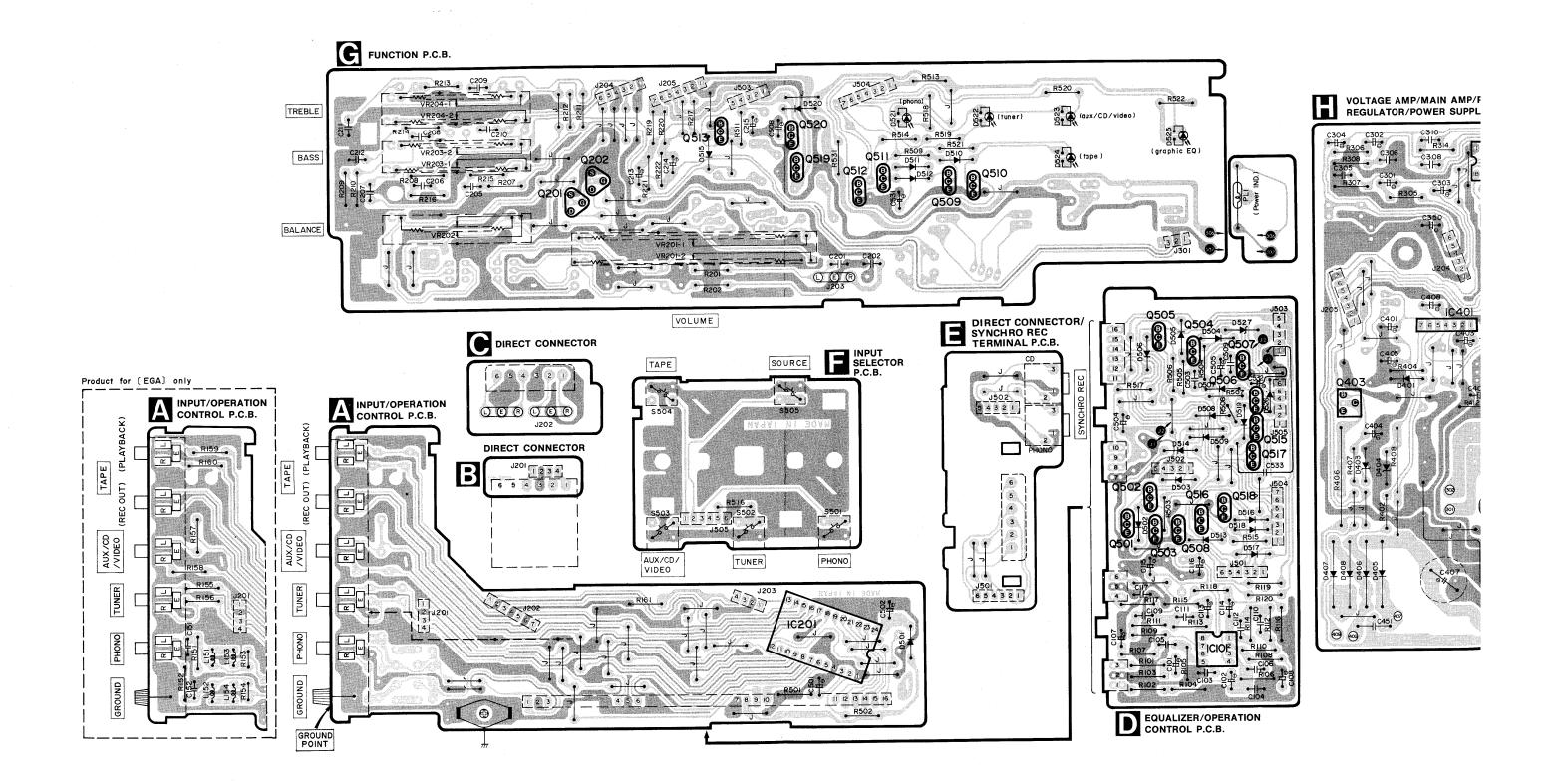
For your safety

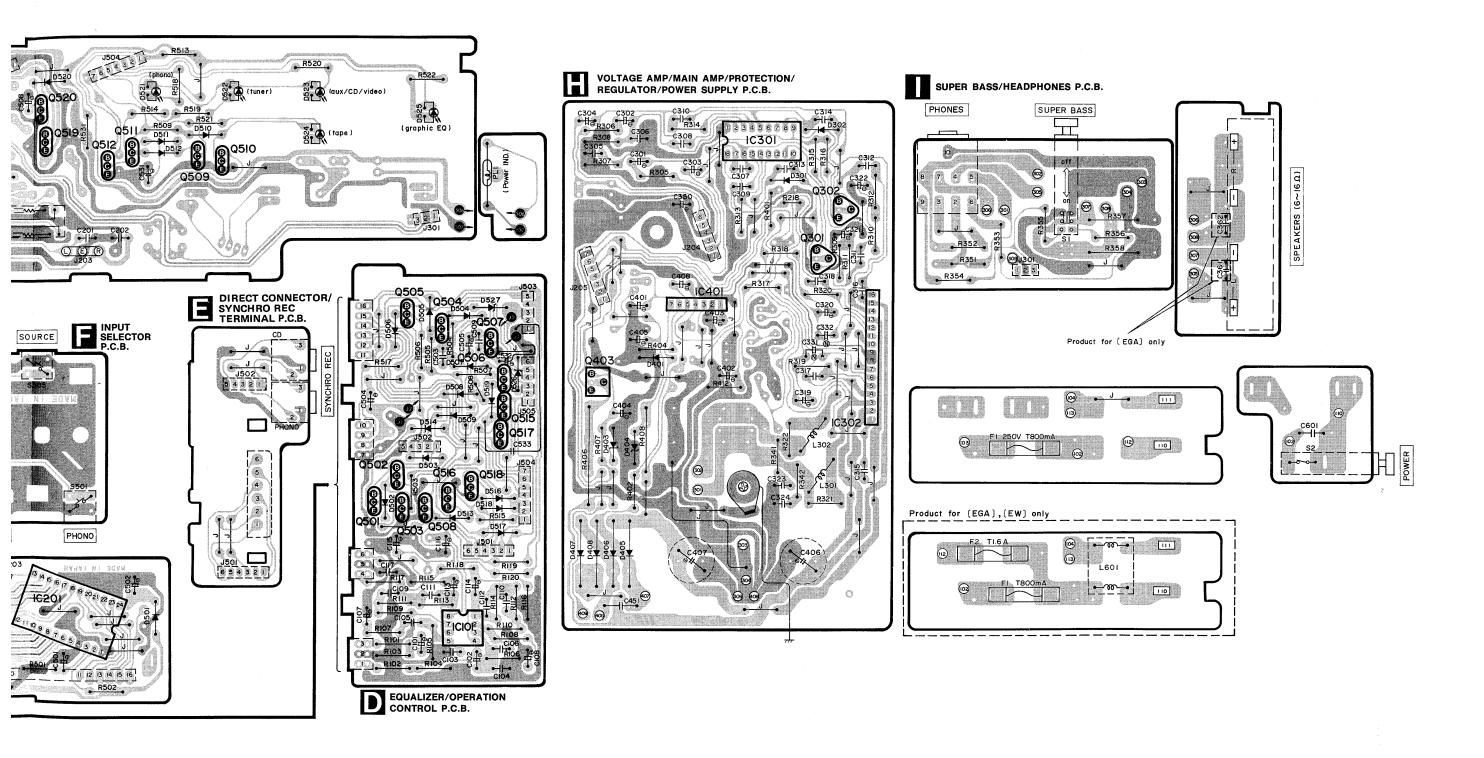
To ensure safe operation the three-pin plug supplied must be inserted only into a standard three-pin power point which is effectively earthed through the normal household wiring. Extension cords used with the unit must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.

The fact that the unit operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.

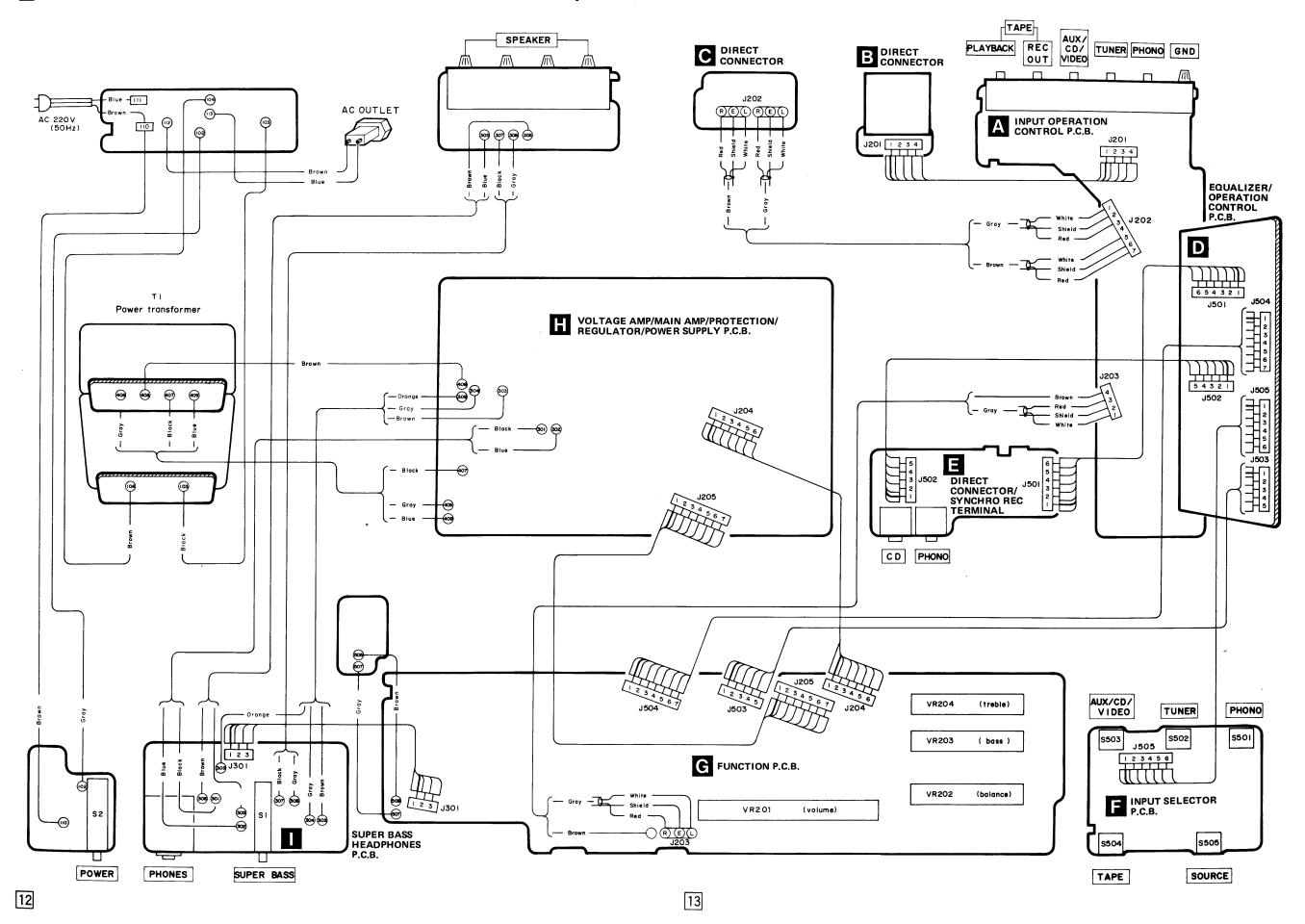
TERMINAL GUIDE OF TRANSISTORS, DIODES AND IC'S

_		SVINJ4559DDM	SVISTK2028B
No.	AN7062 18Pin SVITC9151P 24Pin	7 6 5 8 1 2 3 4	
AN7072N	UN4111, UN4211	2SA992, 2SA1015	2SK301
1 2 3 4 5 6 7	B C E	E C B	3 1. Drain 2. Gate 3. Source
2SD1265	MA162A, MA27W-A	MA150	MA1160M, MA1150M, MA1047M
BCE	к — Д А К — Д А	K————A	K — ☐ A K — A
SVDS2V20	SVDSLV31MC3, SVDSLV31YC3		
K—₩—A	A K		





■ CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM (Top View)



POWER AMPLIFIER PROTECTION

Operational description of IC(IC401) for muting (power ON/OFF, overload detection)

Muting with power "ON"

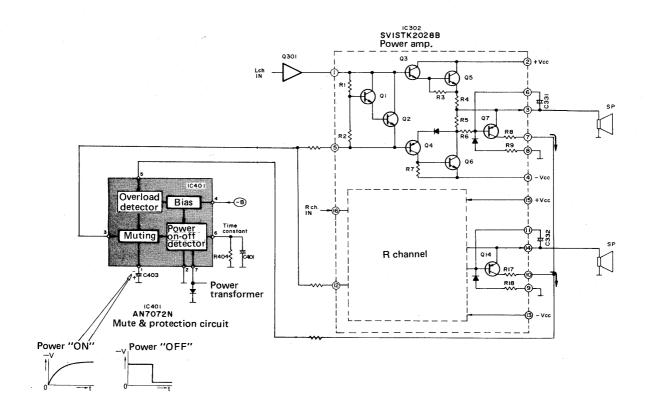
- 1. With power "ON", negative voltage is applied to terminal ⑦ of IC401.
- 2. Subsequently, capacitor (C403) connected to terminal (1) is charged, and the voltage at terminal (1) gradually increases.
- 3. When the voltage becomes nearly -4V (about 5 sec. after power "ON"), the muting circuit turns "ON" and then the voltage at terminal 3 becomes -29.8V.
- 4. IC302 is operated since terminal 3 is connected to power IC (IC302).

Muting with power "OFF"

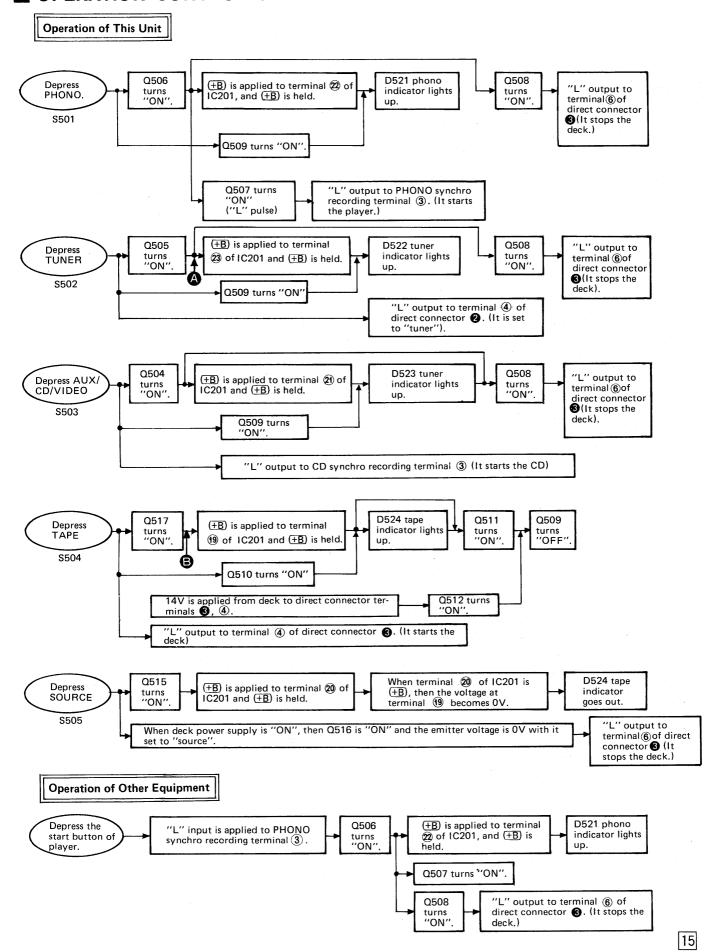
- 1. With power "OFF", capacitor (C403) connected to terminal 1 is discharged.
- Consequently, the voltage at terminal ① decreases, and the muting circuit in IC turns "OFF".
 When the muting circuit turns "OFF", the voltage at terminal ③ becomes OV, causing IC302 to stop operating.

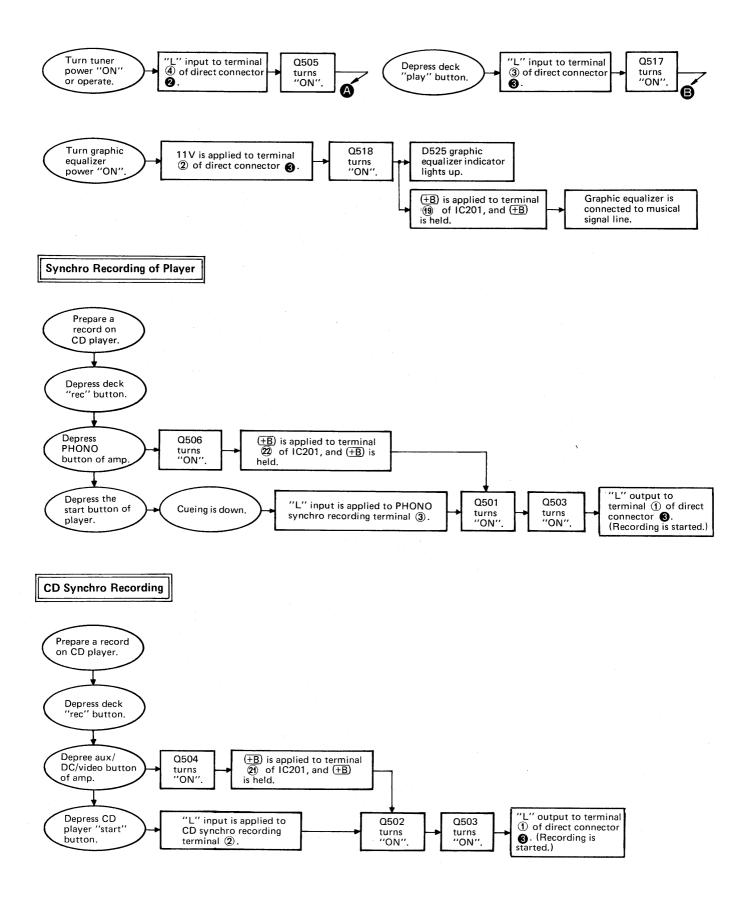
Muting with power amplifier overloaded

- 1. If the speaker terminals are short-circuited or a speaker whose impedance is less than the rating of this unit is used. then excessive current will flow into power transistors Q5 and Q6, causing the voltage across emitter resistor R5
- 2. As the voltage across R5 increases, overload detection transistor Q7 turns "ON".
- 3. Terminal (5) of IC401 has negative voltage supplied from the bias current of IC401. And when Q7 turns ON, the potential at terminal (5) of IC401 decreases (nearly 0V). When the potential difference between terminals (5) and (4) of IC401 exceeds 0.6V, the muting circuit turns "OFF" and the voltage at terminal (3) becomes 0V.

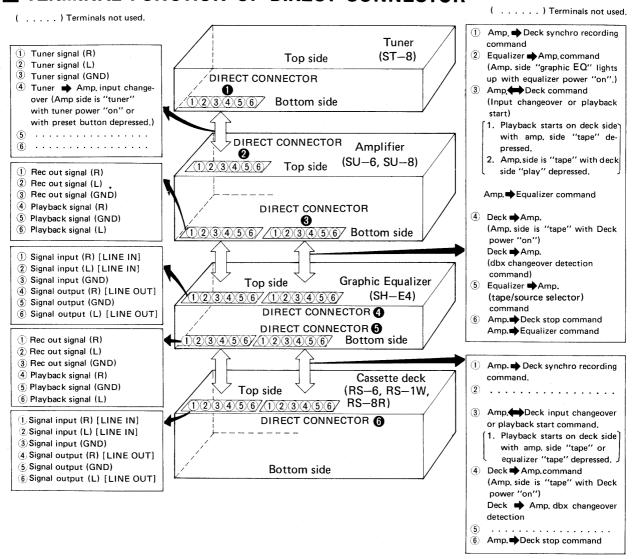


OPERATION CONTROL CHART





■ TERMINAL FUNCTION OF DIRECT CONNECTOR



DIRECT CONNECTOR

★With tuner power switch turned "on" or a broadcasting station selected —

(Note) DC 14V is applied to terminal (4) from amp. side. So, apply DC 14V to terminal (4) when checking.

DIRECT CONNECTOR 2

★With amp. power switch turned "on" and input set to "tuner" —

(i) \sim (3) 0V (4) 7.4V (instant) (5) , (6) 0V DIRECT CONNECTOR (3)

★With amp. power switch turned "on" and input set to

★With amp. power switch turned "on" and input set to "tape" —

①, ② 0V ③ 13.2V ④ 0V ⑤ 10V ⑥ 0V

★With amp. power switch turned "on" and input set to "tuner" —

① 7V ② 0V ③ 4V ④ 11.8V ⑤ 4V ⑥ 5.5V

★With amp. and cassette deck connected by direct connector, power switch turned "on", and amp. input set to "tape" —

① 5.5V ② 4.7V ③ 0V ④ 4.6V ⑤ 10.4V ⑥ 13.6V

★With amp. and cassette deck connected by direct connector, power switch "on", and cassette deck "play" button depressed —

① 5.5V ② 4.5V ③ 11.9V ④ 4.3V ⑤ 10.3V ⑥ 3.9V

Terminal 6 is not used in RS-1W.

DIRECT CONNECTOR 4

★With graphic equalizer power switch turned "on" and tape monitor switch set to "source" —

① 0V ② 14.5V ③ 7V ④ ~ ⑥ 0V

★With graphic equalizer power switch turned "on" and tape monitor switch set to "tape" —

① 0V ② 14.5V ③ ~ ⑥ 0V

DIRECT CONNECTOR 6

★With graphic equalizer power switch turned "on" and tape monitor switch set to "source" —
①,② 0V ③ 7V ④ ~⑥ 0V

★With graphic equalizer power switch turned "on" and tape monitor switch set to "tape" —

① ~ ⑥ 0V

DIRECT CONNECTOR 6

★With cassette deck power switch turned "on" — ① 5.5V ② 0V ③ 4.9V ④ 5.5V ⑤, ⑥ 0V

★With cassette deck power switch turned "on" and "play" button depressed —

(1) 5.5V (2) 0V (3) 4.9V (4) 5.5V (5) 0V (6) 4.9V

★With noise reduction switch of cassette deck set to "dbx" —

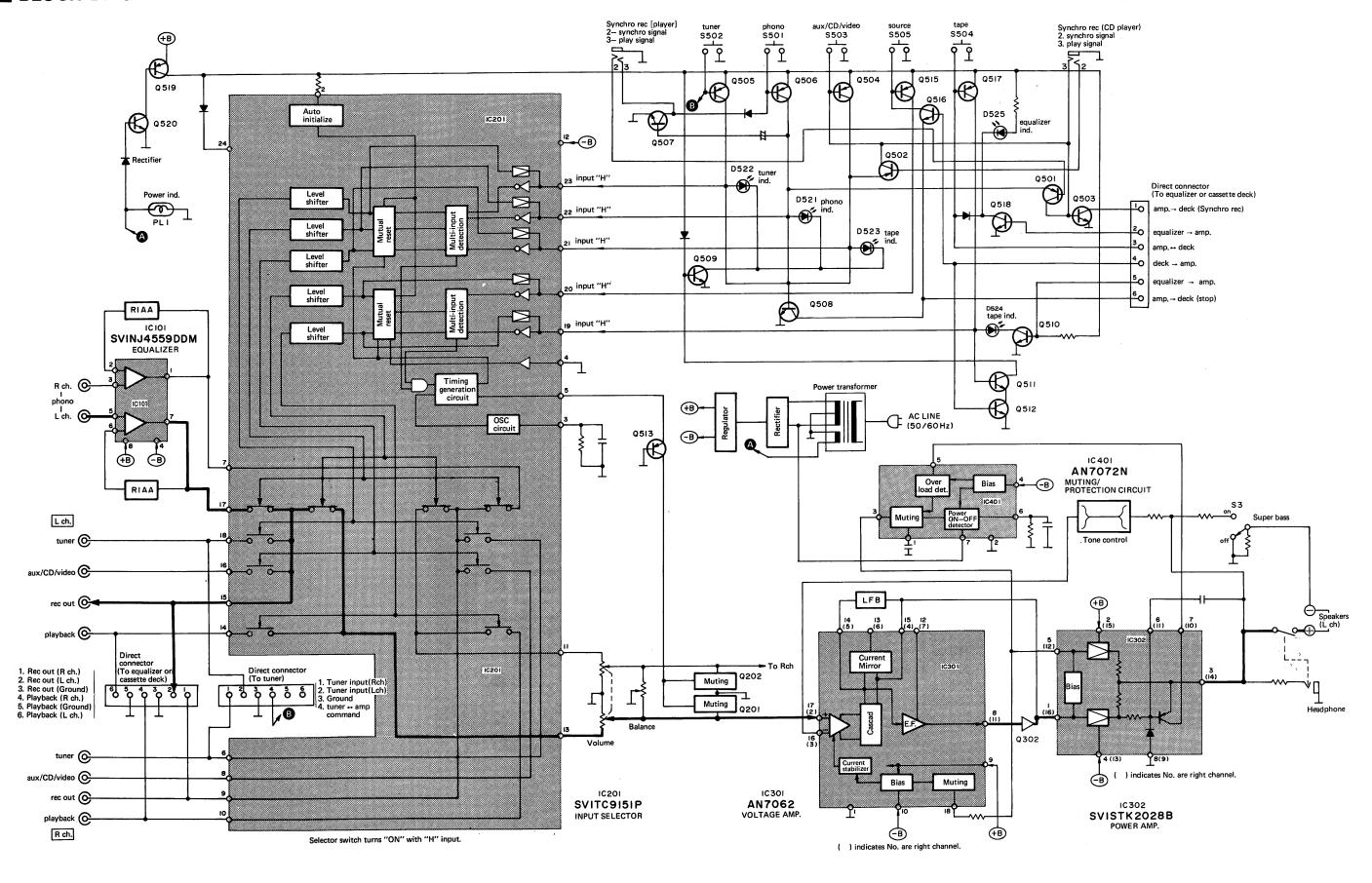
1) 5.5V 2) ~ 6) 0V

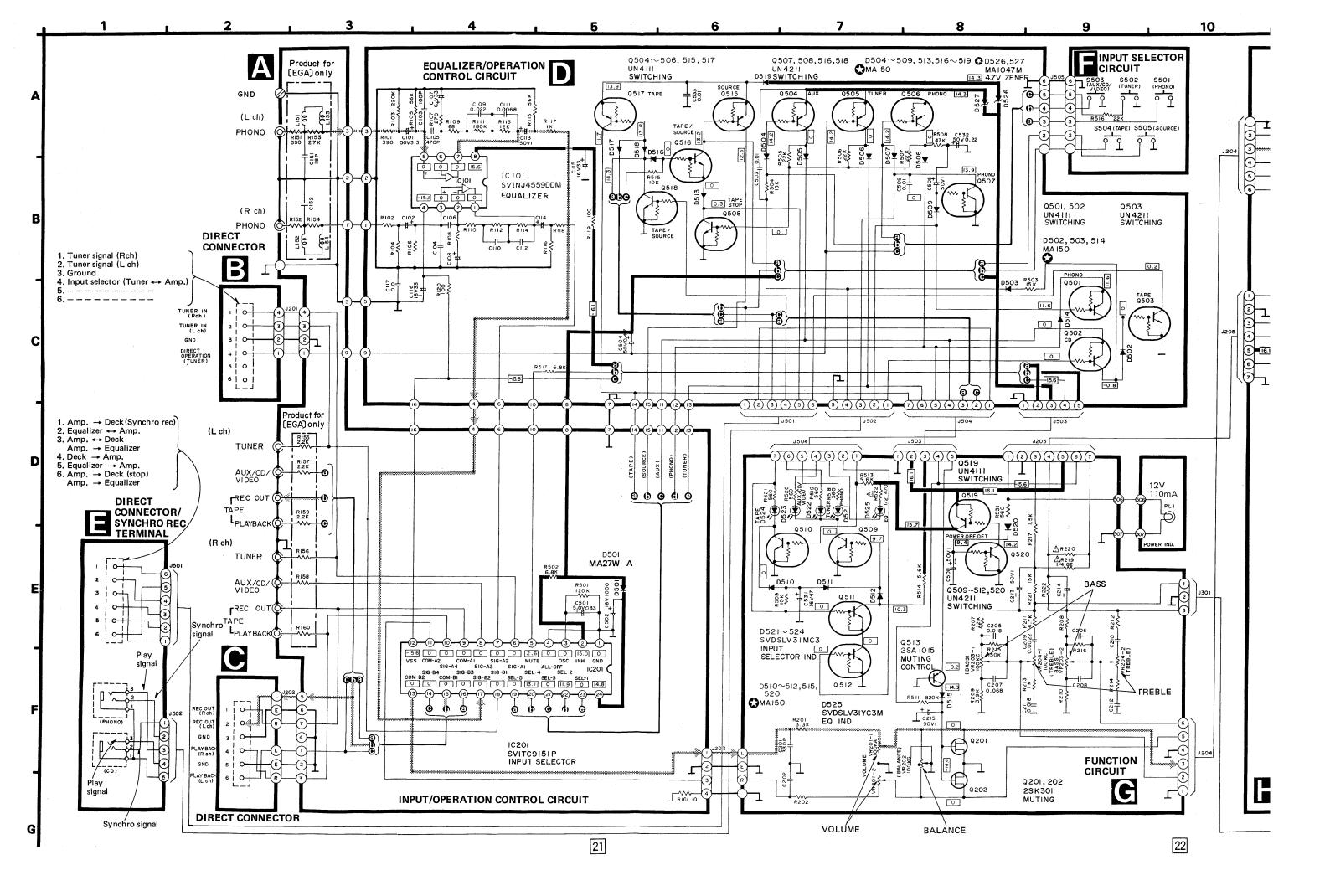


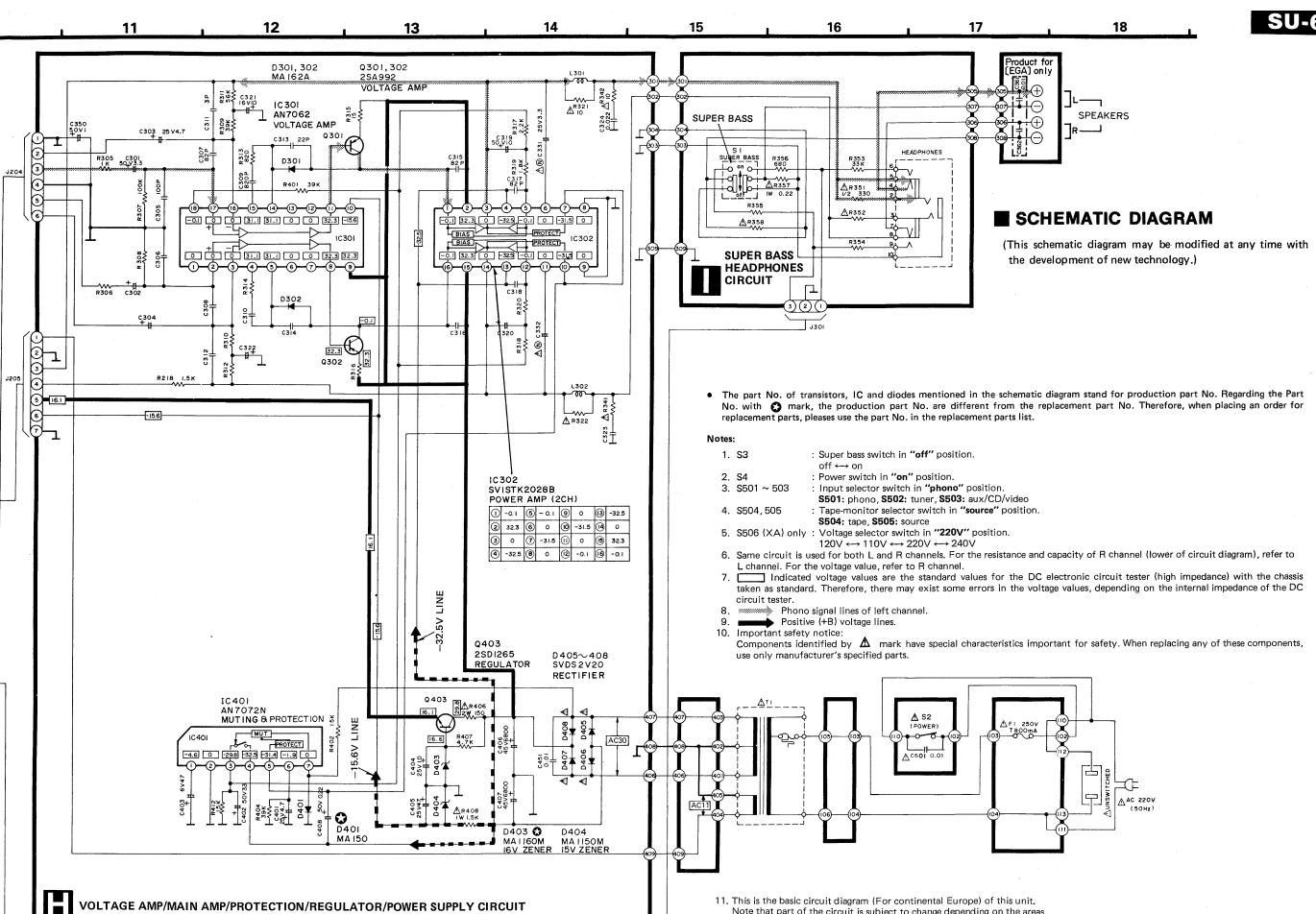
■ FUNCTION OF TERMINAL (FUNCTION SELECTOR IC201)

Pin No.	Mark	Description of terminal
1	GND	Ground terminal.
2	INH	Inhibit input terminal Normal operation at "H" level, and inhibit mode at "L" level.
3	osc	C • R connection terminal for oscillator Muting time and analog switch timing are set according to the frequency of this oscillator. Usually, oscillator is stopped but starts oscillating with SEL input, and stops after delivery of 5 clock output.
4	ALL-OFF	OFF assigning input terminal for all analog switches. When this terminal is at ''H'' level, all analog switches turn OFF.
		Muting signal output terminal. This terminal is at "H" level for a specific period of time when select input (SEL-1 ~ SEL-5) terminals receive "H" level, and analog switches are operated within that period. Muting output time can be freely designed according to OSC frequency.
5	MUTE	OSC Inside clock
		Muting ————————————————————————————————————
6	SIG-A1	Signal input terminal 1. (Tuner input)
18	SIG-B1	With SEL-1 selected, analog switch 1 turns ON, and then it conducts between this terminal and COM-1 terminal.
7	SIG-A2	Signal input terminal 2. (Phono input)
17	SIG-B2	With SEL-2 selected, analog switch 2 turns ON, and then it conducts between this terminal and COM-1 terminal.
8	SIG-A3	Signal input terminal 3. (Aux/CD/Video input)
16	SIG-B3	With SEL-3 selected, analog switch 3 turns ON, and then it conducts between this terminal and COM-1 terminal.
9	COM-A1	Analog switch common terminal 1. (Rec out)
15	COM-B1	Analog switch common to SIG ₁ ~ SIG ₃ .
10	SIG-A4	Signal input terminal 4. (Playback) With SEL-5 selected, analog switch 5 turns ON, and then it conducts between this terminal and COM-2 terminal.
14	SIG-B4	With SEL-4 selected, analog switch 4 turns ON, and then it conducts between this terminal and then analog switch 5 turns off.
11	COM-A2	Analog switch common terminal 2.
13	COM-B2	Common terminal of analog switches 4 and 5.
12	Vss	Apply –15V.
19	SEL-5	Select input terminal of each analog switch.
20	SEL-4	When SEL-1 ~ SEL-5 terminals are at "H" level, each analog switch selected turns ON. SEL-1. SEL-2. SEL-3, and SEL-4, SEL-5 are of mutual reset types, and are OFF except
21	SEL-3	in case of selected input.
22	SEL-2	This terminal is an I/O terminal, also used for driver output for display. (LED driver is turned ON by inside latch circuit with "H" level input, and it is fixed at
23	SEL-1	"H" level even when shifted to "L" level.)
24	VDD	Apply 15V.

■ BLOCK DIAGRAM







12. Regarding the circuits to be changed in the basic circuit diagram (For continental Europe) and related areas [EK],[XA],[XL] and [EGA] refer to the separate service manual (Order No. HAD83122678C8-A).

RESISTORS & CAPACITORS

- Notes: 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
 - 2. Important safety notice:
 - Components identified by Λ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
- 3. The "\$" mark is service standard parts and may differ from production parts.
- The unit of resistance is $\Omega(ohm)$, $K = 1000\Omega$, $M = 1000k\Omega$.
- 5. The unit of capacitance is μ F (microfarad). $P = 10^{-6} \mu F$
- 6. Bracketed indications in Ref. No. columns spedify the area. Parts without these indications can be used for all areas.

Resistor Type	Wattage	Tolerance
ERD : Carbon ERG : Metal Oxide ERX : Metal Film	25 : 1/4W 1 : 1W 2 : 2W S1 : 1/2W	J : ±5% G : ±2%

Voltage	
ECEA Type Other	Tolerance
	ECEA Type Other 1A : 10V 1H : 50V 1C : 16V KC : 400V A: 1E : 25V 2H : 500V D: 1H : 50V 50 : 50V 25 : 25V

• RESISTORS

Ref. No.	Part No.	Value									
R101,102 S	ERD25FJ391	390	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
R103,104	ERD25TJ224 ERD25TJ563 ERD25FJ271 ERD25FJ680 ERD25TJ184 ERD25TJ123 ERD25TJ563 ERD25FJ102	220K 56K 270 68 180K 12K 56K	R201,202 (\$) R207,208 (\$) R209,210 (\$) R211,212 (\$) R213,214 (\$) R215,216 (\$) R217 (\$) R218 (\$)	ERD25FJ332 ERD25TJ223 ERD25FJ392 ERD25FJ472 ERD25FJ102 ERD25TJ154 ERD25FJ152	3.3K 22K 3.9K 4.7K 1K 150K	R317,318 (\$) R319,320 (\$) R321,322 (\$) \(\Lambda\) R341,342 (\$) \(\Lambda\) R351,352 \(\Lambda\) R353,354 (\$) R355,356 (\$)	ERD25FJ222 ERD25FJ182 ERD25FJ100 ERD25FJ100 ERDS1FJ331 ERD25TJ333 ERD25FJ681	2.2K 1.8K 10 10 330 33K 680	R502	ERD25TJ153 ERD25TJ223 ERD25TJ223 ERD25FJ473 ERD25FJ103 ERD25TJ824	6.8K 15K 22K 22K 47K 10K 820K
R119,120 S R151, 152 S [EGA] only	ERD25FJ101 ERD25FJ391	1.00 390	R218 (S) R219,220 (S) A R221,222 (S)	ERD25FJ152 ERD25FJ820 ERD25TJ153	1.5K 82 15K	R357,358 S R401 S R402 S	ERX1ANJR22 ERD25TJ393 ERD25TJ153	0.22 39K 15K	R513,514 S R515 S R516 S	ERD25FJ103	5.6K 10K 22K
R153, 154 ⑤ [EGA] only R155, 156 ⑤ [EGA] only	ERD25FJ272 ERD25FJ222	2.7K 2.7K	R305,306 (\$) R307,308 (\$)	ERD25FJ102 ERD25TJ104	1K 100K	R404 (S) R406 (S)	ERD25TJ393 ERG2ANJ151	39K 150	R517 (§	ERD25FJ561	6.8K 560
R157, 158	ERD25FJ222 ERD25FJ222	2.2K 2.2K	R309,310 (\$) R311,312 (\$) R313,314 (\$)	ERD25TJ393 ERD25TJ563 ERD25FJ821	39K 56K 820	R407 S R408 S R412 S	ERD25FJ472 ERG1ANJ152 ERD25TJ153	4.7K 1.5K 15K	R520,521 § R522 Å R531 §	ERDS1FJ471	560 470 560
R161 S	ERD25FJ100	10	R315,316 ⑤ ⚠	ERD25FJ150	15	R501 S	ERD25TJ124	120K			

CAPACITORS

Ref. No	•	Part No.	Value	Ref. No. Part No. Va		Value	Ref. No.		Part No.	Value	Ref. No.		Part No.	Value	
C101,102	(S)	ECEA50Z3R3	3.3	C209,210		ECQM1H222KV	0.0022	C321,322 (§	s	ECEA1HS100	10	C451 (ot	her	ECOE1104KN	0.1
C103,104	(S)	ECCD1H101K	100P	C211,212		ECQM1H183KV	0.018	C323,324	s)	ECKD1H223ZF	0.022		areas)		
C105,106	S	ECKD1H471KB	470P	C213,214	S	ECEA50Z1	1	C331,332	Δ	ECEA1EN3R3S	3.3	C501	S	ECEA1HSR33	0.33
C107,108	S	ECEA1CS330	33	C215	S	ECEA50Z1	1	C350 (§	s)	ECEA50Z1	1	C502	Š	ECEA1AS102	1000
C109,110		ECQM1H223KV	0.022	C301,302	S	ECEA50Z3R3	3.3	C361,362	s)	ECKD1H103ZF	0.01	C503	Š	ECKD1H103ZF	0.01
C111,112	S	ECQM1H682JZ	0.0068	C303,304	S	ECEA25Z4R7	4.7	(EGA)only		(EGA)only		C504	Š	ECEA50ZR47	0.47
C113,114	S	ECEA50Z1	1	C305,306	S	ECCD1H101K	100P	C401 (S	S	ECEA25Z4R7	4.7	C505	Š	ECEA50Z1	1
C115,116	S	ECEA1CS330	33	C307,308	S	ECCD1H820K	82P	C402 (\$	s)	ECEA50Z3R3	3.3	C508	S	ECEA50Z1	1
C117	S	ECKD1H103ZF	0.01	C309,310	S	ECKD1H821KB	820P	C403 (S	S)	ECEA1AS470	47	C509	Š	ECKD1H103ZF	0.01
C151,152	S	ECCD1H180K	18P	C311,312	S	ECCD1H030CC	3P	C404 (\$	\$	ECEA1HS100	10	C531	Ś	ECEA1ES470	47
(EGA)	only			İ							1		0		"
				C313,314		ECCD1H220K	22P	C405 (\$	s)	ECEA1HS470	47	C532	(S)	ECEA50ZR22	0.22
C201,202	S	ECKD1H331KB	330P	C315,316	(S)	ECCD1H820K	82P	C406,407		ECETS45V682U	6800	C533	· (S)	ECKD1H103ZF	0.01
C205,206		ECQM1H183KV	0.018	C317,318	S	ECCD1H820K	82P	C408 (S	3)	ECEA50ZR22	0.22	C601		ECKDKC103PF2	0.01
C207,208		ECQM1H683KV	0.068	C319,320		ECEA1HS100	10	C451(XA)only	- 1	ECKD2H103PE	0.01				3.01

REPLACEMENT PARTS LIST

- Notes: 1. Part numbers are indicated on most mechanical parts, Please use this part number for parts order.
 - Important safety notice: Components identified by mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

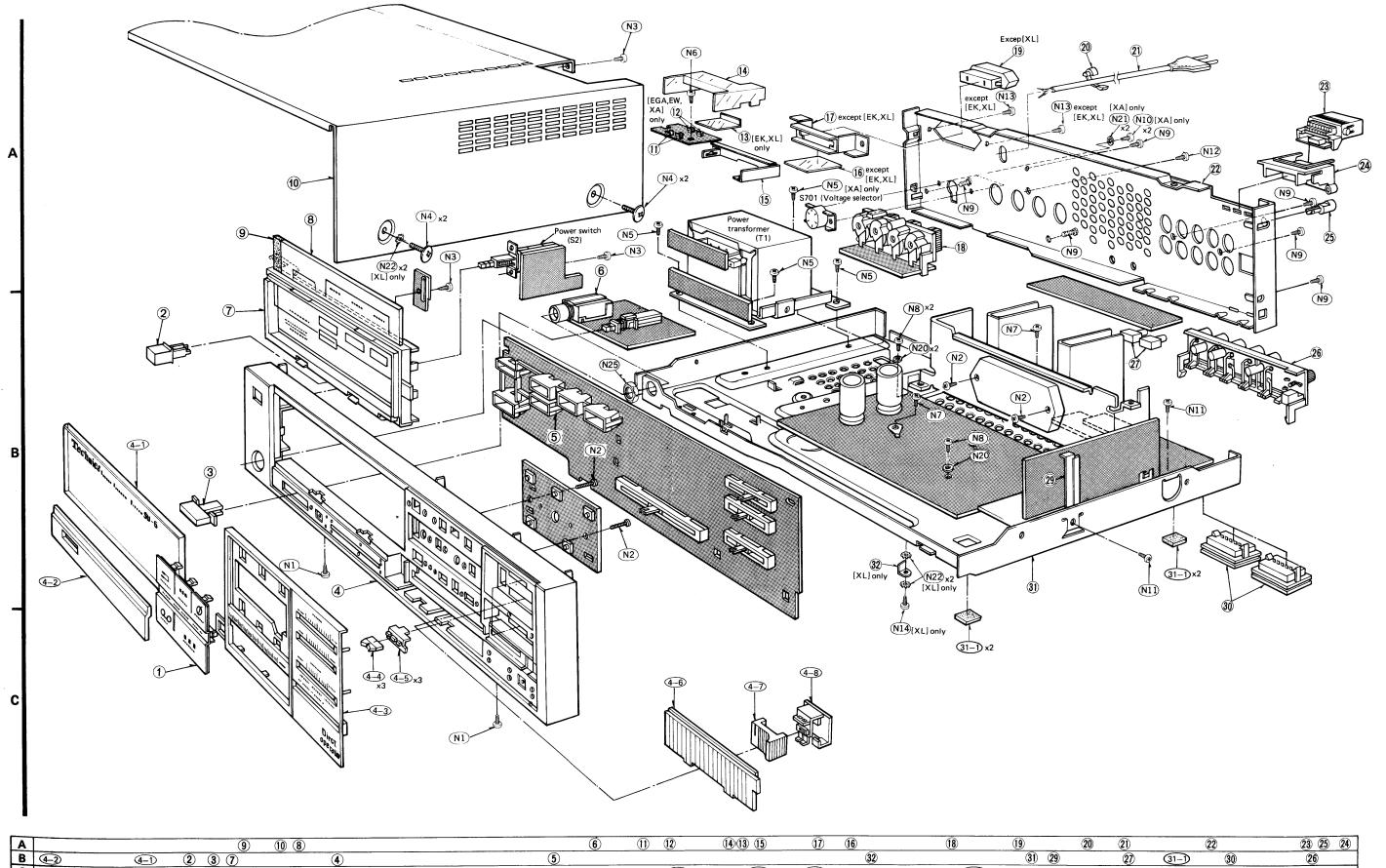
 - 3. No —marked parts are used for black only, while O—marked parts are for silver type only.

 - A. Part other than (6) and (0)—marked are used for both black and silver type.
 Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
 - 6. The "S" mark is service standard parts and may differ from production parts.
 - 7. The parenthesized numbers in the column of description stand for the quantity per set.

Black type model No. : SU-6(K)

	Ref. No. Part No. Part Name & Description Ref. No. P.			Part No.	Part Name & Description		Ref. No.	Part No.	B-19			
	INTEGRATED	CIRCUITS		CA			CHASSIS PA					Part Name & Description
٢	IC101	SVINJ4559DDM	Equalizer	4-		<u>(K)</u>	SGX7559-3	Ornament, Super		27	SJJ75BK	
L	IC101 (EGA) only	SVINJM2043DD	Equalizer	4-			SGX7561-6	Bass(Black Type)		29	SUW2107	Jack, Synchro Rec (2) Bracket (1)
	IC201 IC301	SVITC9151P AN7062	Input Selector Voltage Amp.	4-		(K)	SGX7561-8	Ornament, Volume (Silver Type) (1) Ornament, Volume	 	30 31(EX)only	SJS9605 SKUU6-SE	Connector (2) Bottom Board (1)
	IC302 IC401	SVISTK2028B AN7072N	Power Amp. Muting & Protection	4-4	4		SBD69-1	(Black Type) (1) Knob, Bass Treble,		31 (EW) only 31 (XA) only 31 (XL) only	SKUU6-SW SKUU6-SX SKUU6-SL	Bottom Board (1) Bottom Board (1)
	TRANSISTOR			4-	5		SHR9673	Balance (3) Holder, Knob (3)		31(EK)only 31 other areas	SKUU6-SK SKUU6-SF	Bottom Board (1) Bottom Board (1) Bottom Board (1)
	Q201,202 Q301,302 Q403	2SK301-S 2SA992 2SD1265-O	Muting Voltage Amp Regulator	4-	6	0	SGXU8-SN	Ornament, Volume (Silver Type) (1)		(31-1 32(XL)only	(SHS2481 RJT202B	
	Q501,502, 504~506,515, 517,519	UN4111	Switching	4-	6	K	SGXU8-KE	Ornament, Volume (Black Type) (1)		SCREWS	<u> </u>	(2)
	Q503,507~512, 516,518,520	UN4211	Switching	4-7			SBD83-1	Knob, Volume Control (1)		N1	XTB3+10BFZ XTB3+16BFN XTB3+8GFZ	Tapping, $\oplus 3 \times 10(2)$ Tapping, $\oplus 3 \times 16(4)$ Tapping, $\oplus 3 \times 8$ (3)
		2SA1015-Y	Muting Control	4-8	3		SHR9675-1	Holder, Volume Knob (1)	4	N4 O	SNE2095-2	
	DIODES D301, 302, 401, 502~520 (\$)	MA162A	Switching	5 6 7			SMP355 SJJ63F SMPU6-SN	Holder, L. E. D. (1) Jack Headphone (1) Case (1)		N4 ®	SNE2095-3	Tapping (Silver Type) (4) Tapping (Black
	D403 D404	RD16EB MA1150M	16V, Zener 15V, Zener	8		0	SGU381-2	Identification Plate		N5	XTB3+8F	Type) (4) Tapping, ⊕3×8 (4)
	D501	SVDS2V20 MA27W – A SVDSLV31MC3	Rectifier L. E. D.	8		K	SGU381-5	(Silver Type) (1) Identification Plate (Black Type) (1)		N6 N7	XTW3+8HFYR XTBS3+8FFYR1	Tapping, $\oplus 3 \times 8$ (1) Tapping with Detent, $\oplus 3 \times 8$ (2)
		SVDSLV31YC3M	(Input Selector) L. E. D.	9			SHG435	Rubber (1)		N8 (\$) N9	XTN3+8B XTBS3+8BFZ1	Tapping, ⊕3×8 (3) Tapping with
}	D526,527	MA1047-M	(Input Selector) 4.7V, Zener	10	EK)		SKCU6-SE	Cabinet, Ass'y (Silver) (1)		N10(XA)only (\$) N11	XSN3+6BVS XTBS3+8BFYR1	Detent, ⊕3×8 (6) ⊕3×6 (2) Tapping with
	L151~154(EGA)	ELQS181KB	Choke	10	EK)only	_	SKCU6-SK	Cabinet, Ass'y (Silver) (1) Cabinet, Ass'y		N12 (\$) N13(EK,XL)	XTB3+10BFZ XTBS3+8BFZ1	Detent, ⊕3×8 (2) Tapping, ⊕3×10(1)
		SLQY07G-30 SLQZ650MH49	Choke Choke	10(1	EK)only	K	SKCU6-KK	(Black) (1) Cabinet, Ass'y (Black) (1)	1	except N14(XL)only S		Tapping with Detent, ⊕3×8 (2) Tapping, ⊕3×8 (1)
ı	TRANSFORME	RS							Ī	WASHERS		
1	T1(other areas)	SLT5M335-W	Power Source	11 12(E	W,XA,EG		SJT347 SJT347	Holder, Fuse (2) Holder, Fuse (4)			XWG3 XWA3B	Plain, φ3 (3) Spring, φ3 (2)
	Δ.	SLT5M337-W	Power Source	14	K,XL)onl		SMX319-3 SMX823	Insulation Plate (1) Insulation Plate (1)		N22(XL)only (\$	XWC3B	External Toothed Lock, ϕ 3 (4)
٦	VARIABLE RE	SLT5M339-W	Power Source	15			SUW2151	Bracket, Fuse P. C. B. (1)	L	NUT		
+		EWAQA6X15A15	Valuma 100k O(A)	16(E	K,XL) except		SMX319-1	Insulation Plate (1)	ŀ		XNS12	φ12 (1)
	VR202	EWANF5X15G15 EWANA6X15C15	Volume, $100k\Omega(A)$ Balance, $100k\Omega(G)$ Tone Control,		K,XL) excep	t	SMN1865	Bracket, AC Outlet Socket (1)	t	ACCESSORIES	SJP2257	Cord (1)
	LAMP		100kΩ(C)	18			SJF4437-1	Terminal Board (Speaker) (1)	1.	A2(EK)only 🛕 A3(XA)only 🛕 A4(EGA)only 🛕	SJP5213-1	Plug Adaptor (1) Plug Adaptor (1) Fuse, 250V, T1.6A
	PL1 🛕	XAMS6Q8C	12V, 110mA	19(EK)only	Δ	SJS9227	Socket, AC Power	ľ	A CLEAN ONLY	ABAZOIOTRO	(3)
H	FUSES	VD-0000000			EK,XL] xcept	Δ	SJS9225	Socket, AC Power		A5(XL)only A5(XA)only	SQF11985 SQF11983	Instruction Book (1) Instruction Book (1)
		XBA2C08TR0 XBA2C16TR0	250V, T800mA 250V, T1.6A	20(8	EK)only		SHR129	Bushing, AC Cord		A5(Ei)only A5(EK)only	SQF11981 SQF11979	Instruction Book (1) Instruction Book (1)
H	SWITCHES			20()	(L)only		SHR131	Bushing, AC Cord	4	A5 other areas	SQF11975	Instruction Book (1) Instruction Book (1)
			Super Bass Power Source	լ 20 օ	ther area	s	SHR127	Bushing, AC Cord	1	PACKING PAR		
	S501~505	SSG13	Input Selector Voltage Selector	21(8	EK)only		QFC1205M	AC Cord (1)		P1	SPP659	Polyethylene Bag
}-		CHASSIS PAR	TS	21()	(L)only		QFC1207MA	AC Cord (1)				Pad, Left Side (1) Pad, Left Side (1)
			Button, Input Selector Switch (1) Button, Input	21 o	S) ther area		SJA138-3	AC Cord (1)	۱,	P3(XL)only	SPS3919-4	Pad, Right Side (1) Pad, Right Side (1)
	2	SBC489	Selector Switch (1) Button, Power Switch (1)	22 (E	GA)only		SGPU6-SG	Rear Panel Ass'y		P4(XL)only	SPG4723	Carton Box(Silver
]:	3	SBC439	Button, Super Bass (1)	İ	K)only	ı	SGPU6-SK	Rear Panel, Ass'y		P4(EF)only	SPG4721	Type) (1) Carton Box(Silver Type) (1)
- []	_		Front Panel, Ass'y (Silver) (1)	i	(L)only (A)only	İ	SGPU6-SL SGPU6-SX	Rear Panel, Ass'y (1) Rear Panel, Ass'y		P4(EK)only	SPG4719	Carton Box(Silver Type) (1)
	i-1	-	Front Panel, Ass'y (Black) (1) Fransparent Plate	1	ther areas		SGPU6-SE	Rear Panel, Ass'y (1) Rear Panel, Ass'y		0	SPG4717	Carton Box(Silver Type) (1)
Ш	1 −1	SGU379-2	(Silver Type) (1) Transparent Plate	23			SJS9607-1	(1)	ı		ľ	Carton Box(Black Type) (1) Carton Box(Black
4.	1-2	SGX7559-2	(Black Type) (1) Ornament, Super Bass(Silver Type)	24		_	SHR9631	Connector (1) Holder (1)		®		Гуре) (1)
IL			(1)	25 25			SHE135 SHE135—1	Pin(Silver Type) (1) Pin(Black Type) (1)				
	26			26		:	SJF3055N	Terminal Board (1)				

EXPLODED VIEWS



Α	9	(0) (8)	6	11 12	14(13) (15)	17 16	(18)	19	20 21	22	23 25 24
B 4-2	2 4-1 2 3 7	4	5			32		31 29	27	31-1) 30	26
С	1	4-4 4-3 4-5		4-6	4-7	4–8	31–1)				

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