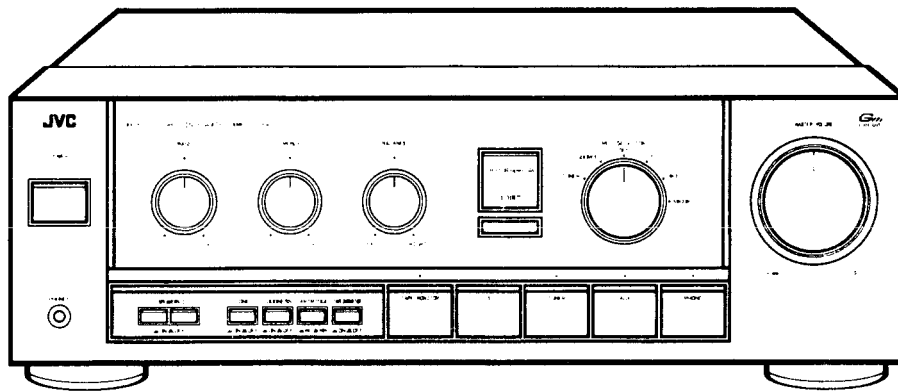


# JVC

## SERVICE MANUAL

### STEREO INTEGRATED AMPLIFIER

MODEL No. **AX-511BK**



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## Safety Precautions

1. The design of this product contains special hardware and may circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (  $\triangle$  ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

### 5. Leakage current check (Electrical shock hazard testing)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

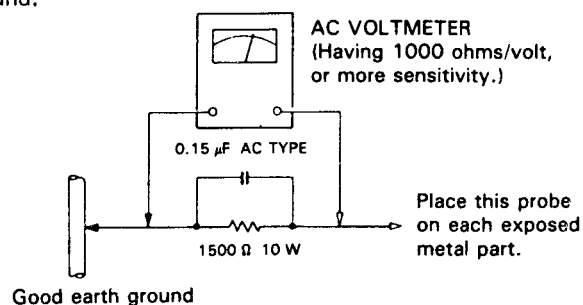
Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500  $\Omega$  10 W resistor paralleled by a 0.15  $\mu$ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



## Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

# Specifications

## AX-511BK

### OVERALL CHARACTERISTICS

#### Output power:

120 watts per channel into 4 ohms at 1 kHz (DIN).

80 watts per channel into 8 ohms at 1 kHz (DIN).

**75 watts per channel, min. RMS, both channels driven, into 8 ohms from 20 Hz to 20 kHz, with no more than 0.007% total harmonic distortion. (U.S.A. and Canada only)**

75 watts per channel, min. RMS, both channels driven, into 8 ohms at 1 kHz with no more than 0.003% total harmonic distortion. (measured by JVC Audio Analyzer System)

Total harmonic distortion	: 0.007% (20 Hz — 20 kHz, 8 ohms) at 75 watts
Intermodulation distortion	: 0.007% (60 Hz : 7 kHz = 4 : 1, 8 ohms) at 75 watts
Power band width	: 5 Hz — 50 kHz (IHF, 0.05%, 8 ohms both channels driven)
Frequency response	: 5 Hz — 80 kHz +0, -3 dB (8 ohms)
Damping factor	: 90 (1 kHz, 8 ohms)
Input terminals	
Input sensitivity/impedance (1 kHz)	
PHONO (MM)	: 2.5 mV/47 kohms
PHONO (MC)	: 200 $\mu$ V/100 ohms
CD/AUX/	: 200 mV/43 kohms
TUNER/TAPE 1, 2	
Signal-to-noise ratio	
PHONO (MM)	: 85 dB ('66 IHF)
PHONO (MC)	: 66 dB ('66 IHF)
CD/AUX/	: 104 dB ('66 IHF)
TUNER/TAPE 1, 2	
PHONO (MM) (REC OUT)	: 81 dB ('78 IHF)
PHONO (MC) (REC OUT)	: 73 dB ('78 IHF)
CD/AUX/ (SP OUT)	: 76 dB ('78 IHF)
TUNER/TAPE 1, 2 (SP OUT)	
PHONO (MM)	: 67 dB (DIN)
CD/AUX/	: 68 dB (DIN)
TUNER/TAPE 1, 2	
Tone controls	
TREBLE:	+8 $\pm$ 1 dB -8 $\pm$ 1 dB (at 10 kHz)
BASS:	+8 $\pm$ 1 dB -8 $\pm$ 1 dB (at 100 Hz)
Loudness controls (Volume control at -30 dB position)	: +6 dB (at 100 Hz)

**EQUALIZER**

PHONO overload capacity  
 PHONO (MM) : 100 mV (0.02% THD)  
 PHONO (MC) : 8 mV (0.04% THD)  
 PHONO RIAA deviation  
 PHONO (MM) : ±0.3 dB (20 Hz — 20 kHz)  
 PHONO (MC) : ±0.5 dB (20 Hz — 20 kHz)

Recording output

Output level/impedance  
 TAPE REC-1, 2 : 200 mV/Maximum 1 kohms

**GENERAL**

Dimensions : 435 (W) x 147 (H) x 356 (D) mm (17-3/16" x 5-13/16" x 14-1/16")  
 Weight : 9.3 kg (20.5 lbs.)

Design and specifications subject to change without notice.

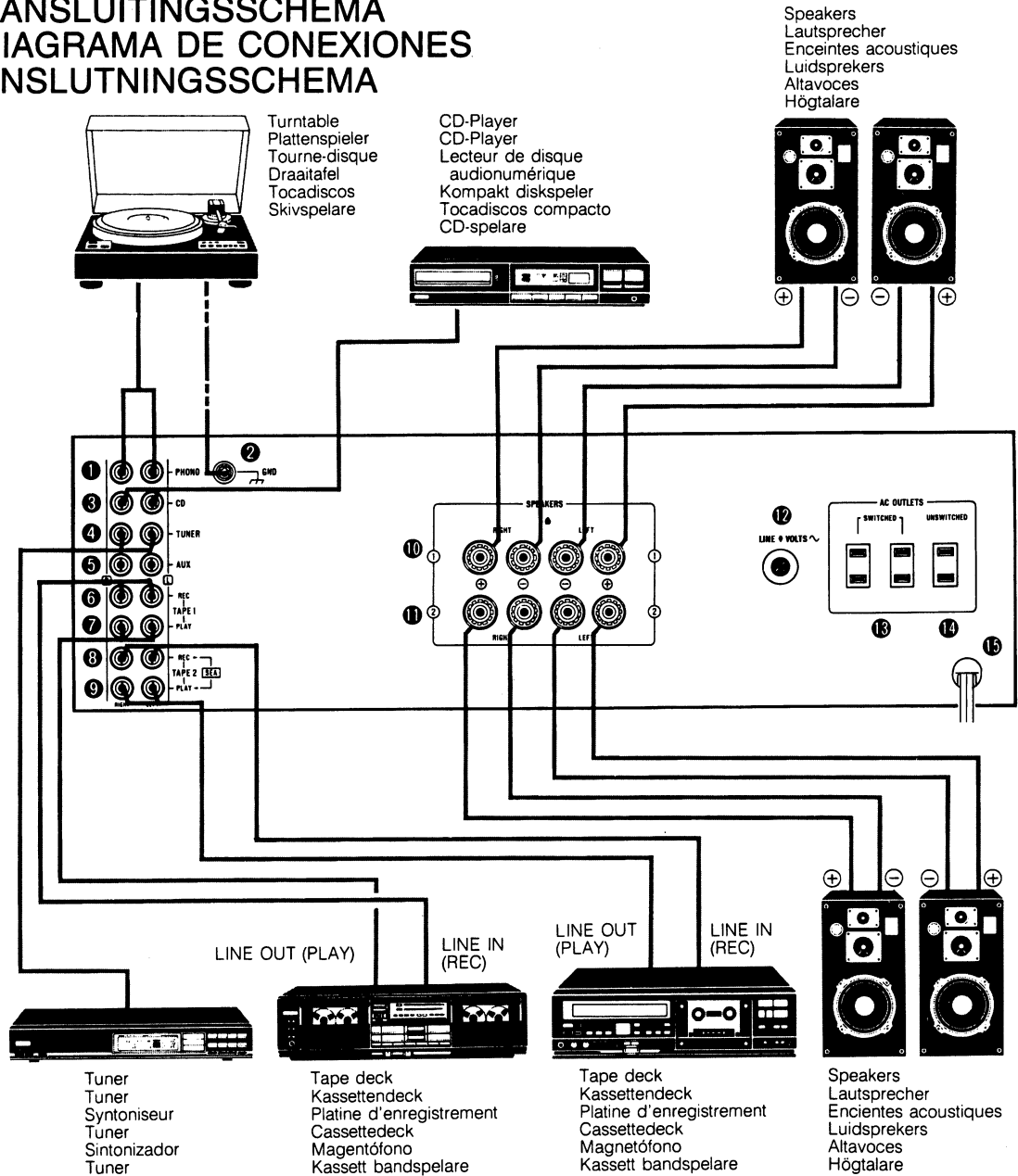
**POWER SPECIFICATIONS**

Areas	Line voltage & frequency	Power consumption
		AX-511BK
U.S.A.	AC 120 V ~, 60 Hz	400 watts/ 500 VA
Canada		
U. K.	AC 240 V ~, 50 Hz	680 watts
Australia		
Continental Europe	AC 220 V ~, 50 Hz	290 watts
Other areas	AC 110/127/220/240 V ~ selectable, 50/60 Hz	



**OPEN-AIR STEREO HEADPHONES HA-CD7**  
 The JVC HA-CD7 Open-Air high-quality Stereo Headphones (optionally available) are recommended for use with this unit.

**CONNECTION DIAGRAM  
ANSCHLUSSDIAGRAMM  
SCHEMA DE RACCORDEMENTS  
AANSLUITINGSSCHEMA  
DIAGRAMA DE CONEXIONES  
ANSLUTNINGSSCHEMA**



## REAR PANEL

- ① PHONO terminals
- ② GND terminal  
If your turntable has a ground lead, connect it to the GND terminal.
- ③ CD terminals
- ④ TUNER terminals
- ⑤ AUX terminals
- ⑥ TAPE 1 REC terminals
- ⑦ TAPE 1 PLAY terminals
- ⑧ TAPE 2 REC terminals
- ⑨ TAPE 2 PLAY terminals
- ⑩ SPEAKERS 1 terminals
- ⑪ SPEAKERS 2 terminals
- ⑫ AC line voltage selector (LINE ↓ VOLTS ~)\*
- ⑬ SWITCHED AC OUTLETS\*\*
- ⑭ UNSWITCHED AC OUTLET\*\*
- ⑮ Power cord  
(\*Not provided on units for U.S.A., Canada, Continental Europe, the United Kingdom and Australia.)  
(\*\*Not provided on units for Continental Europe, the United Kingdom and Australia.)

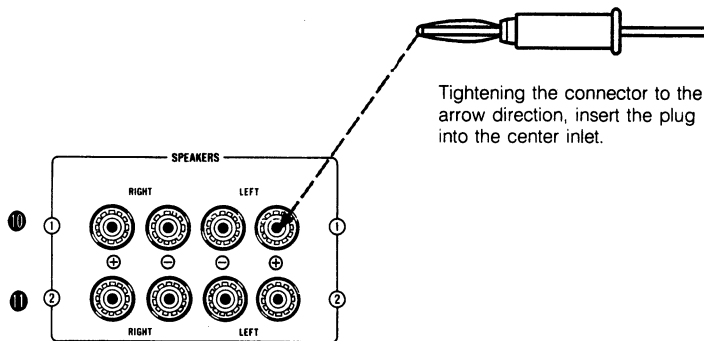
**Notes:**

1. **Switch the power off when connecting any component.**
2. **Connect source components with left and right channels connected correctly. Reversed channels may degrade the stereo effect.**
3. **Connect speakers with correct polarity; (+) to (+) and (-) to (-). Reversed polarity may degrade the stereo effect.**
4. **Connect plugs or wires firmly. Poor contact may result in hum.**
5. **Do not connect the power plugs of components which have a total power consumption exceeding the value indicated on the rear panel.**
6. **Use speakers with the correct impedance. The correct impedance is indicated on the rear panel of the AX-511BK/AX-611BK.**
7. **The SWITCHED AC outlets are switched off when the front-panel POWER button is switched off.**
8. **The UNSWITCHED AC outlet is not switched off when the front-panel POWER button is switched off.**

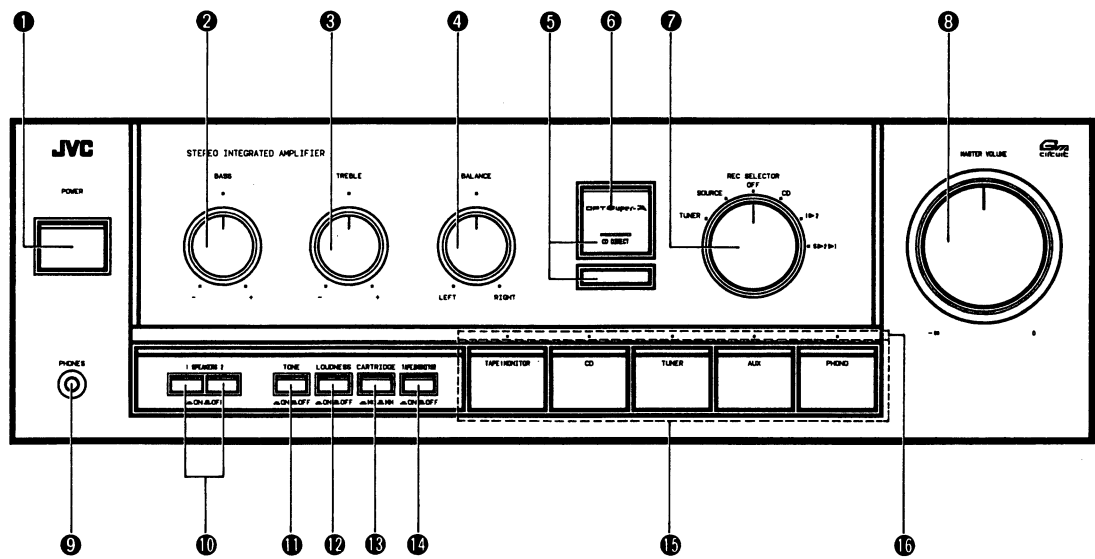
## RÜCKSEITE

- ① Plattenspieler-Anschlüsse (PHONO)
- ② Erdungsanschluß (GND)  
Hier das Erdungskabel des Plattenspielers anschließen, falls vorhanden.
- ③ CD-Anschlüsse
- ④ Tuner-Anschlüsse (TUNER)
- ⑤ AUX-Anschlüsse
- ⑥ Tonband 1-Aufnahmeanschlüsse (TAPE 1 REC)
- ⑦ Tonband 1-Wiedergabeanschlüsse (TAPE 1 PLAY)
- ⑧ Tonband 2-Aufnahmeanschlüsse (TAPE 2 REC)
- ⑨ Tonband 2-Wiedergabeanschlüsse (TAPE 2 PLAY)
- ⑩ Lautsprecher-1-Anschlüsse (SPEAKER 1)
- ⑪ Lautsprecher 2-Anschlüsse (SPEAKERS 2)
- ⑫ Netzspannungswähler (LINE ↓ VOLTS ~)\*
- ⑬ Beschaltete Netzausgänge (SWITCHED AC OUTLETS)\*\*
- ⑭ Unbeschalteter Netzausgang (UNSWITCHED AC OUTLET)\*\*
- ⑮ Netzkabel.  
(\*Nicht vorhanden an Geräten für USA, Kanada, Kontinental-Europa Großbritannien und Australien.)  
(\*\*Nicht vorhanden an Geräten für Kontinental-Europa, Großbritannien und Australien.)

**Connecting to speaker terminals with BANANA plug.**  
(Only for USA and Canada)



FRONT PANEL  
 FRONTPLATTE  
 PANNEAU AVANT  
 VOORPANEEL  
 PANEL DELANTERO  
 FRAMPANEL



## FRONT PANEL

**1 POWER**

Press this button to turn the power on. To turn the power off, press it again.

**Notes:**

- When power is not supplied to this amplifier for 2 — 3 days, the source select button pressed before the power was switched off may be lost when the power is switched on again. If this happens, set the buttons, etc. again.
- An electronic source selector is used in this unit. When the POWER button is first switched on, two or more sources or no source may be selected. Make sure to input the source select data by pressing one of the source selectors.
- If the POWER button is pressed repeatedly to switch on and off too quickly, the same phenomenon as the above will occur.

**2 BASS**

Turn clockwise to boost bass response and counterclockwise to decrease it.

**3 TREBLE**

Turn clockwise to boost treble response and counterclockwise to decrease it.

**4 BALANCE**

Balances the volume between the left and right speakers. Usually set it to the center click position.

**5 CD DIRECT and indicator**

Press this button to enjoy listening to the CD with good sound quality. The indicator lights and the signal fed from the CD terminals is directly connected to the volume, bypassing the circuits on the way, thus allowing you to enjoy listening to an improved sound quality.

**Note:**

- While the CD DIRECT button is pressed, the reproduced sound does not change even if the source selector (including TAPE 2 MONITOR) and BALANCE volume are operated, press the CD DIRECT button again to turn the indicator off when using these.

**6 OPT Super-A indicator**

Pressing the POWER button to on, this indicator lights.

**7 REC SELECTOR**

**TUNER:** Set to this position to record broadcasts while listening to another source.

**SOURCE:** Set to this position to record from sources connected to the PHONO, CD, TUNER or AUX terminals.

**OFF:** Set to this position when you are not recording or dubbing.

**CD:** Set to this position to record CD while listening to another source.

**1 ▶ 2:** Set to this position to dub from the deck TAPE 1 to TAPE 2.

**S ▶ 2 ▶ 1:** Set to this position to dub from the deck TAPE 2 to TAPE 1 and record the source selected with the SOURCE SELECTOR onto the deck TAPE 2.

**8 MASTER VOLUME**



Controls the volume of the speakers and headphones.

**9 PHONES (Headphones jack)**


Plug stereo headphones into this jack for private listening.


If you want to listen to sound from the headphone only, press the SPEAKERS buttons to "OFF".

**10 SPEAKERS**


Press to switch the speakers connected to the SPEAKERS 1 or 2 terminals on (  ) and off (  ).


**11 TONE**

**ON (  ):** Press to adjust the tone with the BASS and TREBLE controls.


**DEFEAT (  ):** Press to this position to obtain a standard (flat) frequency response.


**12 LOUDNESS**

**ON (  ):** To compensate for the ear's lower sensitivity at low listening levels.


**OFF (  ):** To bypass the LOUDNESS circuit.


**13 CARTRIDGE**

**MC (  ):** Press in when using an MC cartridge having an output of less than 0.5 mV.

**MM (  ):** Press again when using an MM or MC cartridge having an output of more than 0.5 mV.

**14 TAPE 2 MONITOR**

**ON (  ):** Set to this position to listen to the tape deck connected to the TAPE 2 terminals of this unit. If your tape deck is of the 3-head type, you can monitor the recorded sound while recording by setting this button to ON.

**OFF (  ):** Keep this button set to this position, except when you want to listen to the tape deck connected to the TAPE 2 terminals of this unit.

**15 Source selector****TAPE 1 MONITOR**

Press to listen to a tape deck connected to the TAPE 1 terminals.

**CD**

Press to listen to the source connected to the CD terminals.

**TUNER**

Press to listen to radio broadcasts by a tuner connected to the TUNER terminals.

**AUX**

Press to listen to the source connected to the AUX terminals.

**PHONO**

Press to listen to records played by a turntable connected to the PHONO terminals.

**16 Source indicator**

The indicator corresponding to the source select button pressed lights.



## OPERATION

**Before operation, always be sure to set VOLUME at minimum.**

**When the volume is increased after selecting a source position with no equipment connected to the input terminal, other connected devices (such as speakers) may be adversely affected by external noise and inductive hum.**

### Listening to broadcasts

1. Connect a tuner to the TUNER terminals on the rear panel.
2. Press the POWER button on.
3. Press the TUNER button and make sure that the TAPE 1 MONITOR and TAPE 2 MONITOR buttons are set to off.
4. Select the speaker system with the SPEAKERS switches.
5. Operate the tuner according to its instruction manual.
6. Adjust the VOLUME, LOUDNESS, BALANCE and BASS/TREBLE controls.

### Listening to records

1. Connect a turntable to the PHONO terminals on the rear panel.
2. Press the POWER button on.
3. Set the CARTRIDGE ● button of this unit according to the cartridge in use.
4. Press the PHONO button and make sure that the TAPE 1 MONITOR and TAPE 2 MONITOR buttons are set to off.
5. Select the speaker system with the SPEAKERS switches.
6. Operate the turntable according to its instruction manual.
7. Adjust the VOLUME, LOUDNESS, BALANCE and BASS/TREBLE controls.

### Listening to tapes

1. Connect a tape deck to the PLAY terminals of TAPE 1 or TAPE 2.
2. Press the POWER button on.
3. Press the TAPE 1 MONITOR button to play back the TAPE 1 deck. For playback of the TAPE 2 deck, press the TAPE 2 MONITOR button to ON (■).
4. Select the speaker system with the SPEAKERS switches.
5. Operate the tape deck for playback according to its instruction manual.
6. Adjust the playback sound controls as required.

#### Note:

- **Do not place the tape deck directly on the amplifier, because it may cause the amplifier to malfunction.**

### Using stereo headphones

Stereo headphones can be plugged into the front panel jack. Plugging headphones into the PHONES jack does not switch off the speaker sound.

### Recording tapes

#### — Recording from records —

1. Connect a tape deck to the REC terminals of the TAPE 1 or TAPE 2 terminals.
2. Press the POWER button on.
3. Select a speaker system if you wish to hear the sound while recording.
4. Press the PHONO button.
5. Operate the turntable.
6. Operate the tape deck for recording.

#### — Recording from other sources (TUNER, CD, AUX) —

Press the TUNER, CD or AUX button to record radio broadcasts, or the source connected to the CD, AUX terminals.

All other operations are identical to when recording from disc source.

#### Note:

- **To record from CD, turn the source selector to "CD". It is possible to monitor the high quality sound by pressing the CD DIRECT button. When monitoring other sources while recording, press the CD DIRECT button again to turn the indicator off.**

#### — Recording from other sources (PHONO, TUNER, AUX) while listening to the CD —

1. Select the source that you wish to record to from among the PHONO, TUNER and AUX button.
2. Operate the tape deck for recording.
3. Press the CD DIRECT button.

### Tape dubbing

Dubbing from the TAPE 1 to TAPE 2 is carried out as follows:

1. Press the TAPE 1 MONITOR button.
2. Play back the TAPE 1 deck.
3. Operate the TAPE 2 deck for recording.

You can perform tape dubbing while listening to the CD by pressing the CD DIRECT button in addition to the above operations.

#### Notes:

- **The sound you hear from the speakers or headphones is the source sound, not that being recorded on the tape.**
- **The VOLUME control of this amplifier has no effect on the recording level. Adjust the recording level with the controls on the tape deck.**

### How to operate the monitor while recording on the tape deck

1. Connect a 3-head tape deck to the TAPE 1 or TAPE 2 terminals.
2. Make sure to connect the signal cords to the PLAY and REC terminals.
3. Select the source from which you want to record by depressing the source select button on this unit.
4. Operate the tape deck for recording as described in its operating manual.
5. By playing the source component, you can record on the tape deck.
6. While recording on the tape deck, the recorded sound can be heard by depressing the TAPE 1 MONITOR or TAPE 2 MONITOR button on this unit.

### Use of S.E.A. Graphic Equalizer

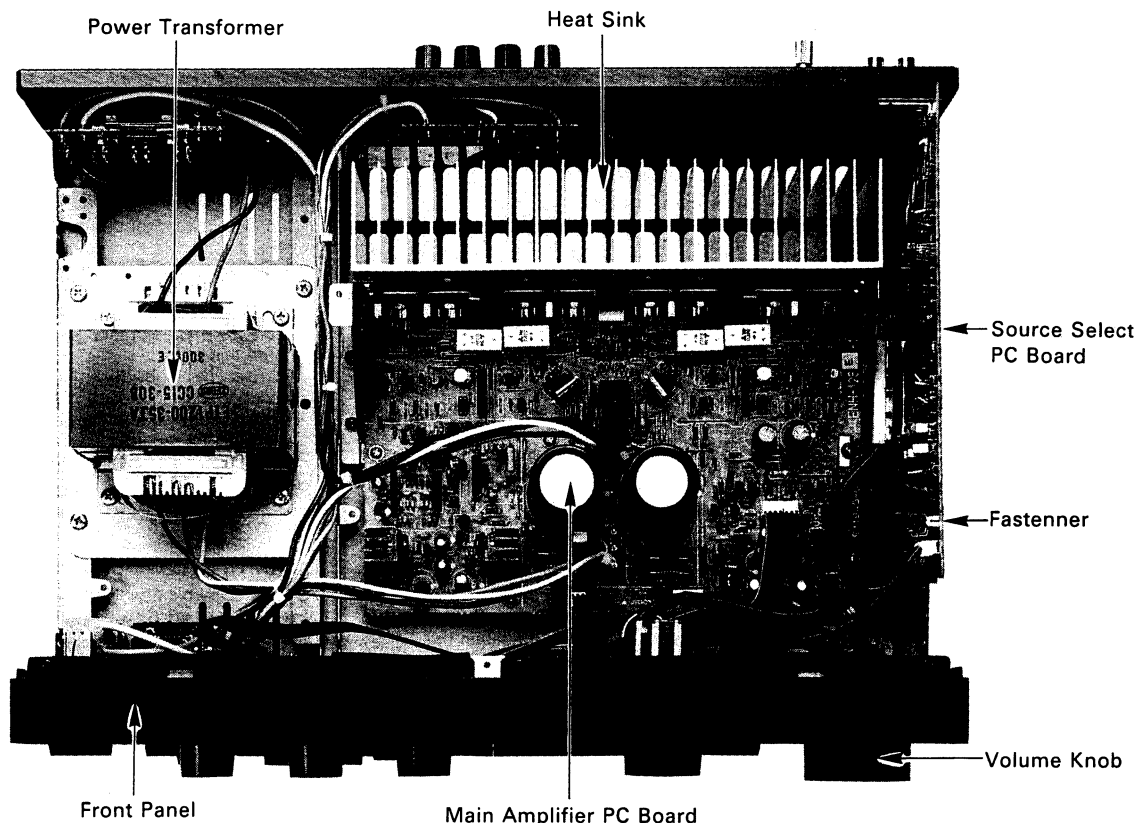
The S.E.A. Graphic Equalizer is JVC's exclusive tone control system. By allowing you to independently boost or lower the response of finely divided sections of the frequency spectrum: the S.E.A. gives you much greater control over the sound quality of your stereo system. With an optionally available S.E.A. Graphic Equalizer, you can tailor the sound to your own taste for different types of music or to compensate for the particular acoustic characteristics of your audio components and listening room.

The TAPE 2 terminals of the AX-511BK or AX-611BK can be used for connecting the S.E.A. Graphic Equalizer.

#### Note:

- **Even if the S.E.A. Graphic Equalizer is operated while the CD DIRECT button is pressed, reproduced sound is neither adjusted nor compensated. When using the S.E.A. Graphic Equalizer, press the CD DIRECT button once again to turn the indicator off.**

## Removal Procedures



### ■ Removing the Top Cover

1. Remove six screws.
2. Remove the top cover by lifting up its rear section and pulling it backward while holding it on incline.

### ■ Removing the Front Panel

1. Remove the top cover.
2. Pull out the volume knob.
3. Remove three plastic rivets on the upper part of the front panel and three screws from the lower part.

### ■ Removing the Bottom Cover

1. Remove 20 screws fixing the bottom cover.

### ■ Removing the Source Select PC Board

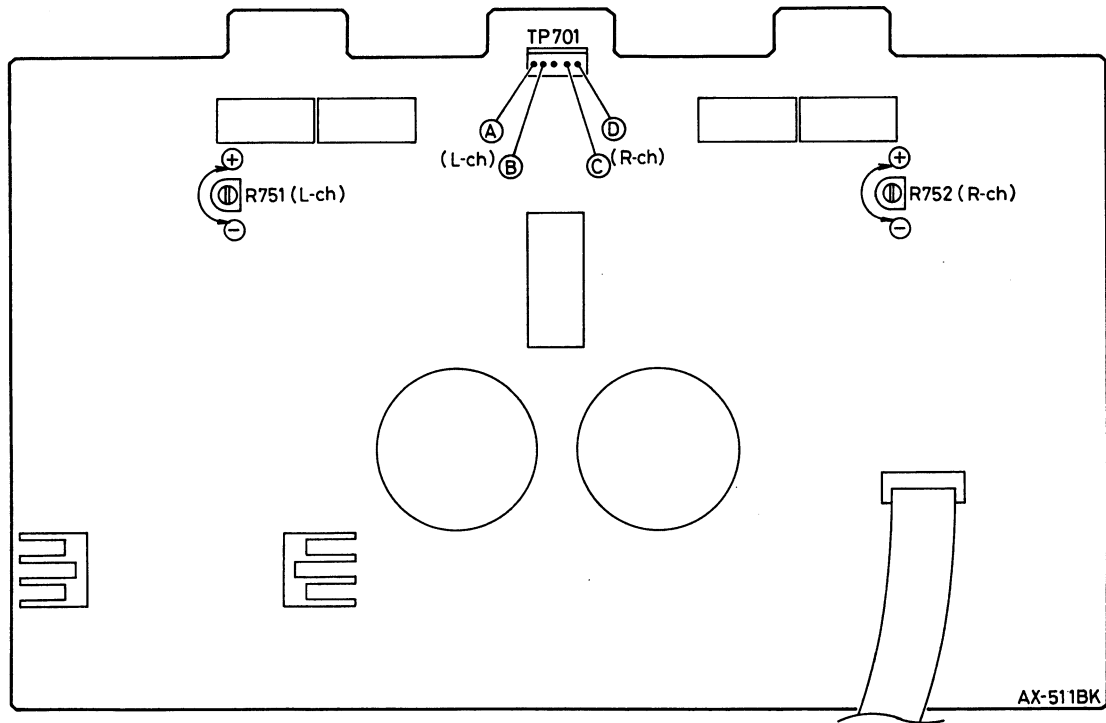
1. Remove the top cover.
2. Remove four screws fixing the pin jacks.
3. Remove the fastener from the source select pc board. (See above figure.)
4. Pulling the source select pc board toward you.

### ■ Removing the Power Transistors

1. Remove the top cover.
2. Remove the bottom cover.
3. Remove the retaining screw from the defective power transistor and replace it.

# Adjustment Procedures

## ■ Power Amplifier Idling Adjustment

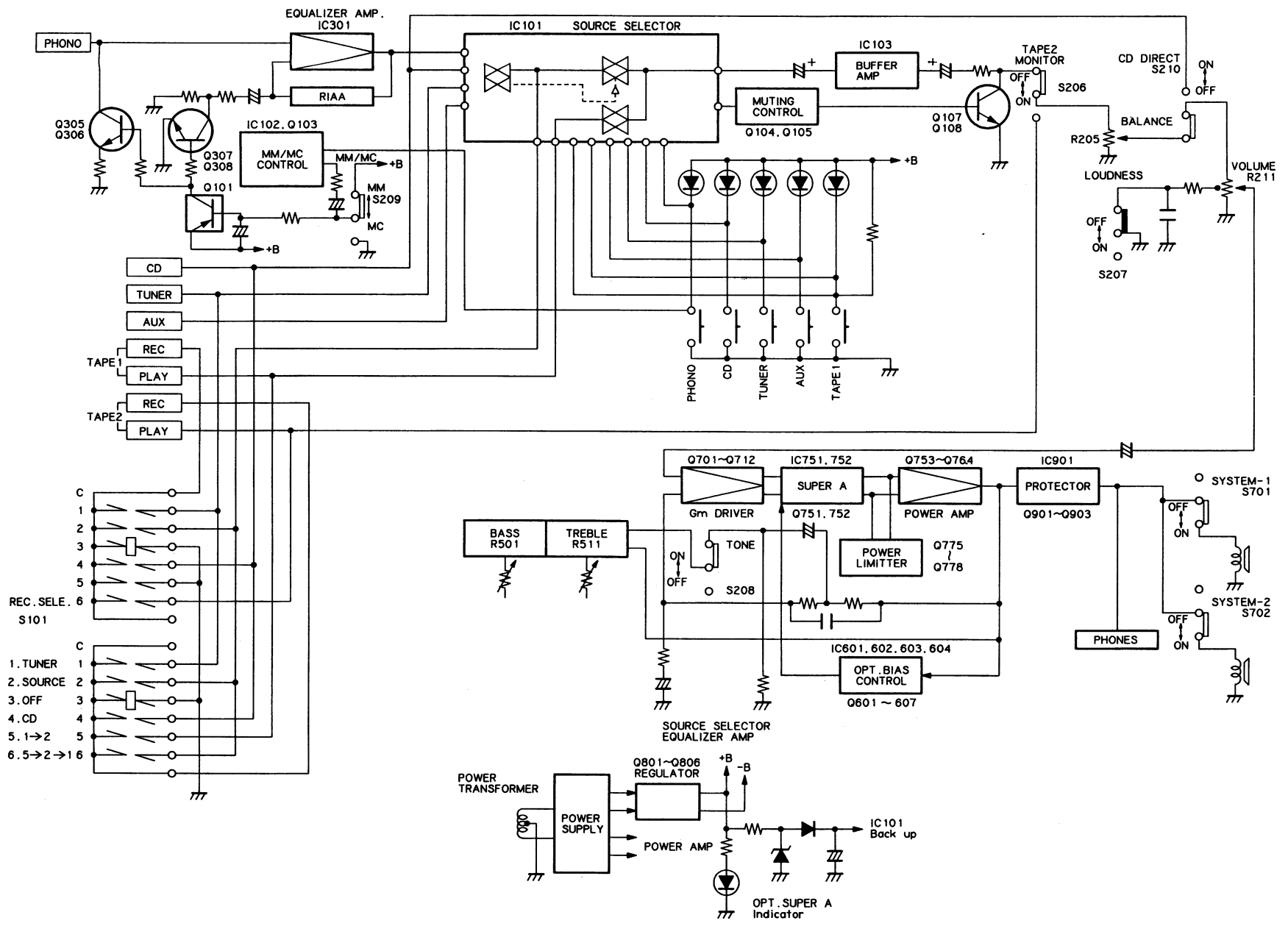


1. Before turning on the power, turn the semi-fixed resistors (R751 for L channel and R752 for R channel) of the power amplifier circuit board fully counterclockwise.
2. Adjust the semi-fixed resistor (R751 and R752) so that the voltage at the following test points of the power amplifier circuit board is within a range of 1 ~ 3 mV after the power is turned on.  
 L channel: Measure the voltage between test point ① (emitter of Q901) and output at the test point ②.  
 R channel: Measure the voltage between test point ③ (emitter of Q902) and output at the test point ④.
3. Readjust resistors R751 and R752 about 10 minutes after the power is turned on (the heatsink temperature must be sufficiently high) so that the voltage at the test points becomes 11 mV. Confirm that the voltage does not vary when the heatsink temperature increases further.

**Note:** Be sure to perform the measurement with the probes and cabinet of the measuring equipment separated from the grounding terminals of AX-511BK or other measuring equipment.

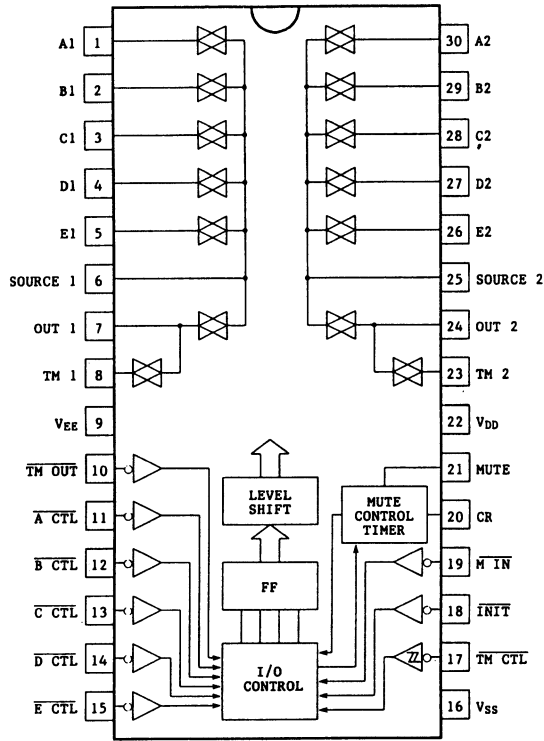
Since this set is a parallel balanced (push-pull) amplifier, check idling current of all the transistors after the above adjustment is performed.

# Block Diagram

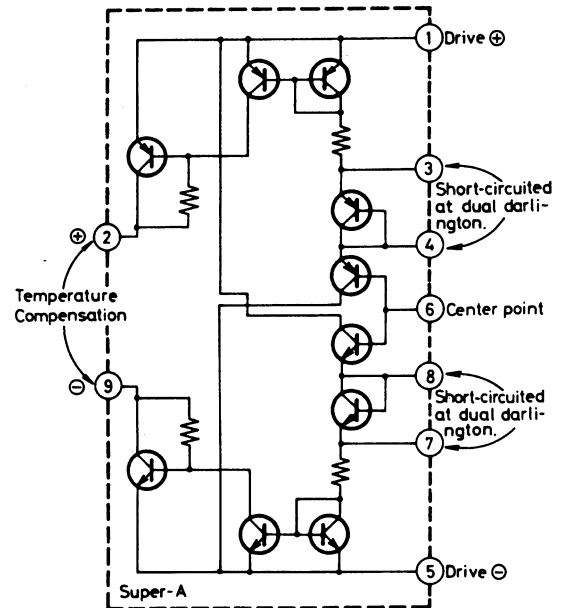


# Internal Block Diagrams of ICs

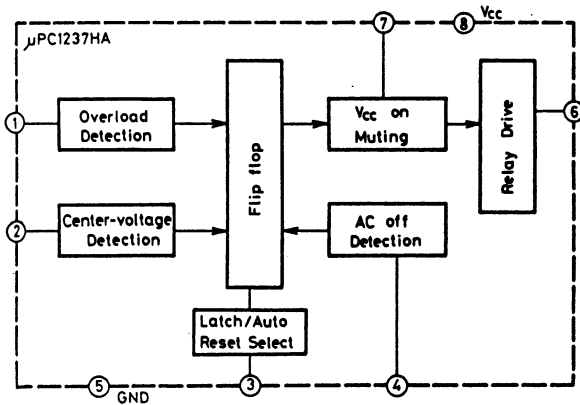
■ LC7818 (IC101): Analog Switch



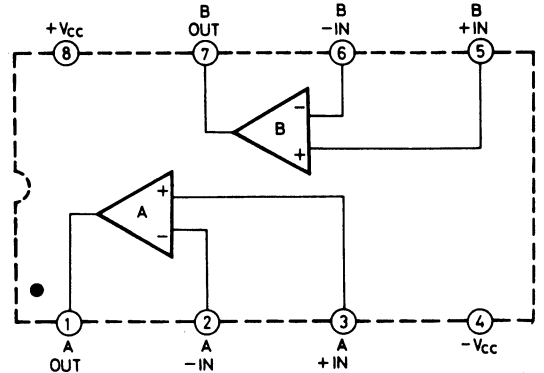
■ VC5022 [X, Y] (IC751, IC752): Super-A



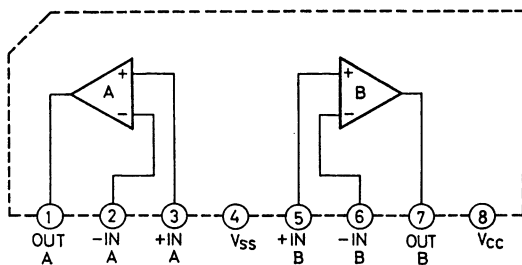
■  $\mu$ PC1237HA (IC901): Relay Driver



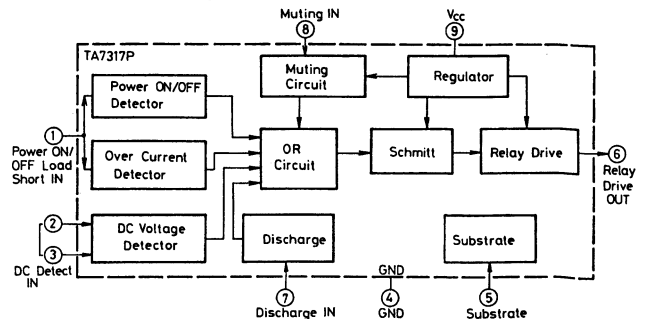
■ NJM4560DD (IC301): Dual OP Amp.



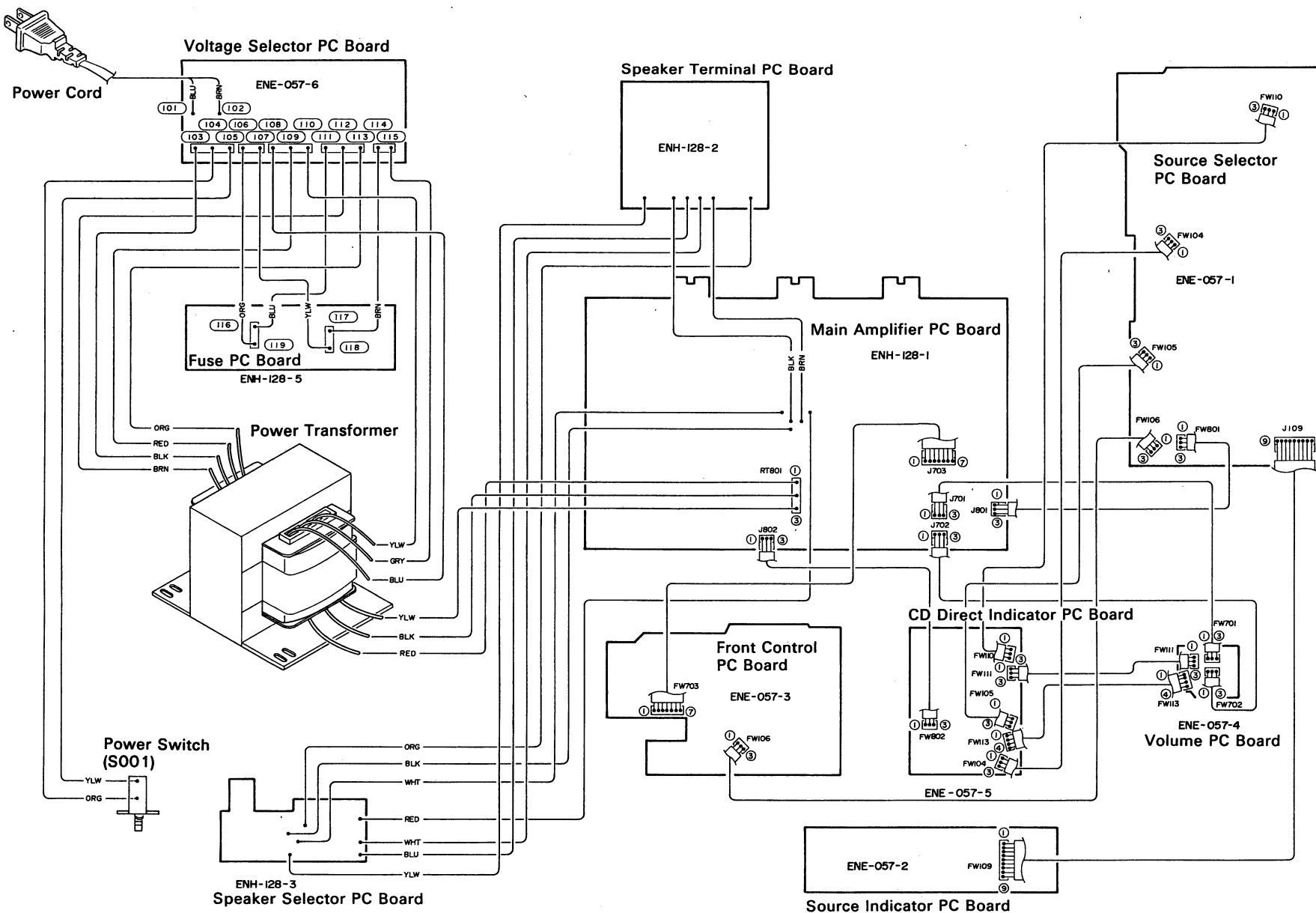
■ VC4580LD (IC103) : Dual OP Amp.  
 ■ BA15218N (IC601, 602): Dual OP Amp.



■ TA7317P (IC102): Driver

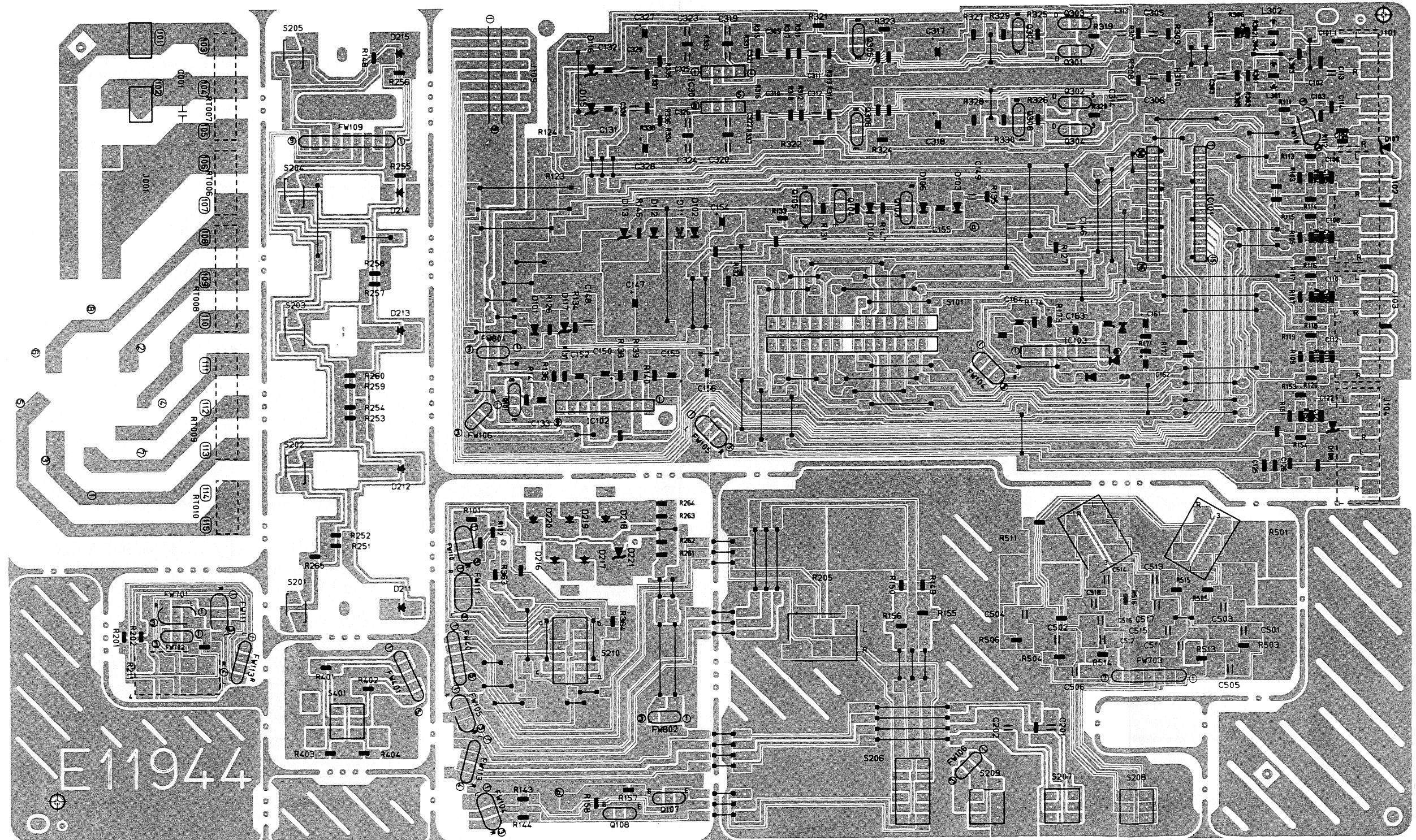


# Connection Diagram

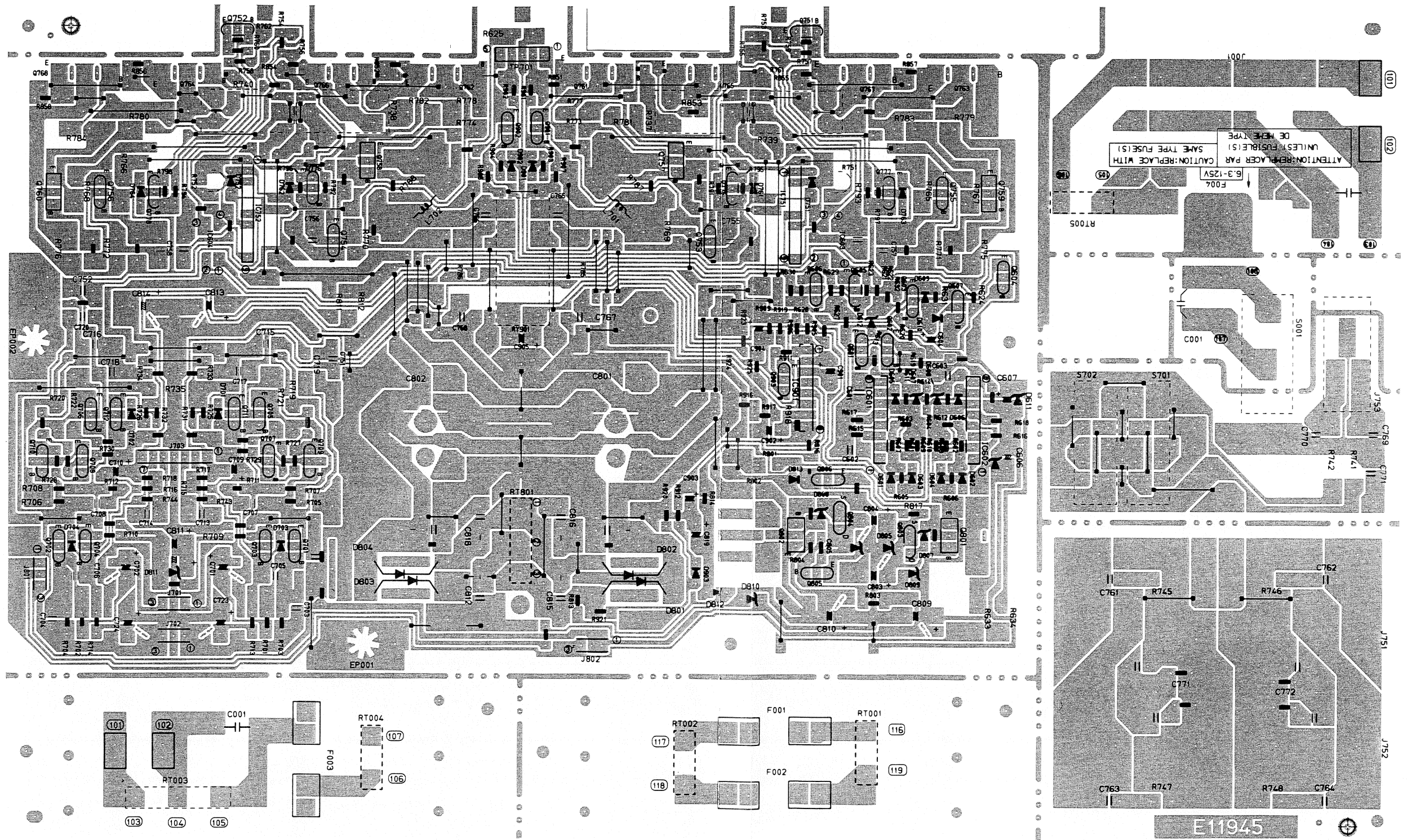


# Printed Circuit Boards

## ■ Source Select PC Board (ENE-057)



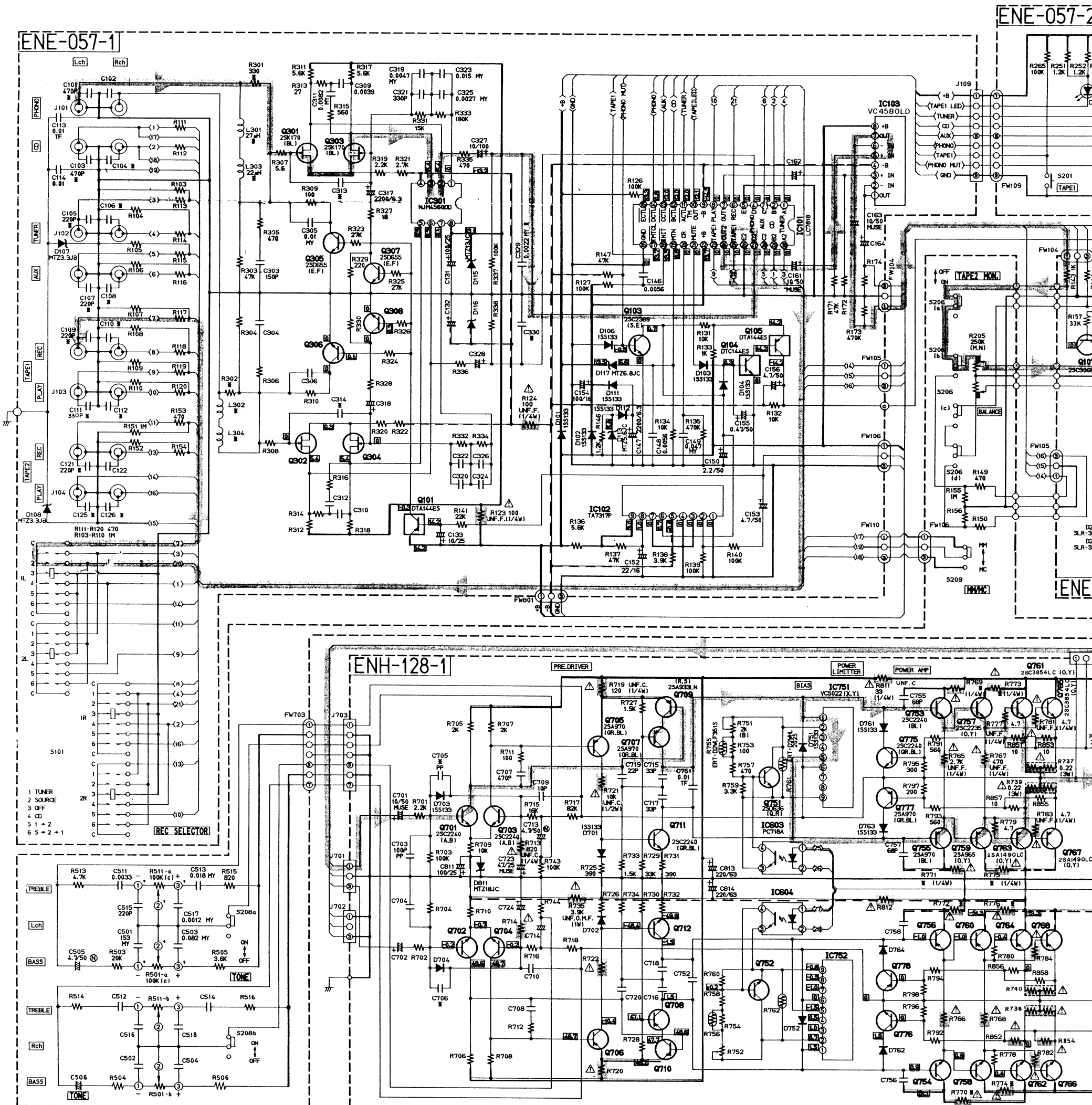
■ Main Amplifier PC Board (ENH-128)

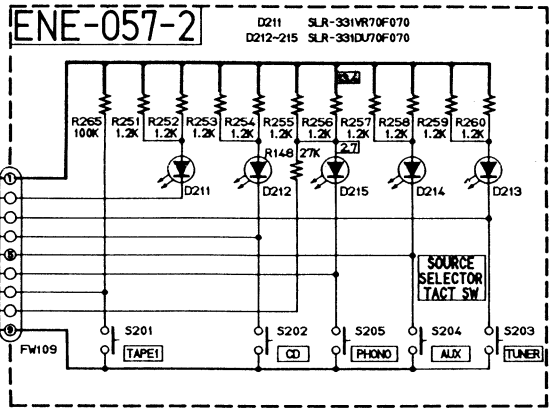




# Schematic Diagrams

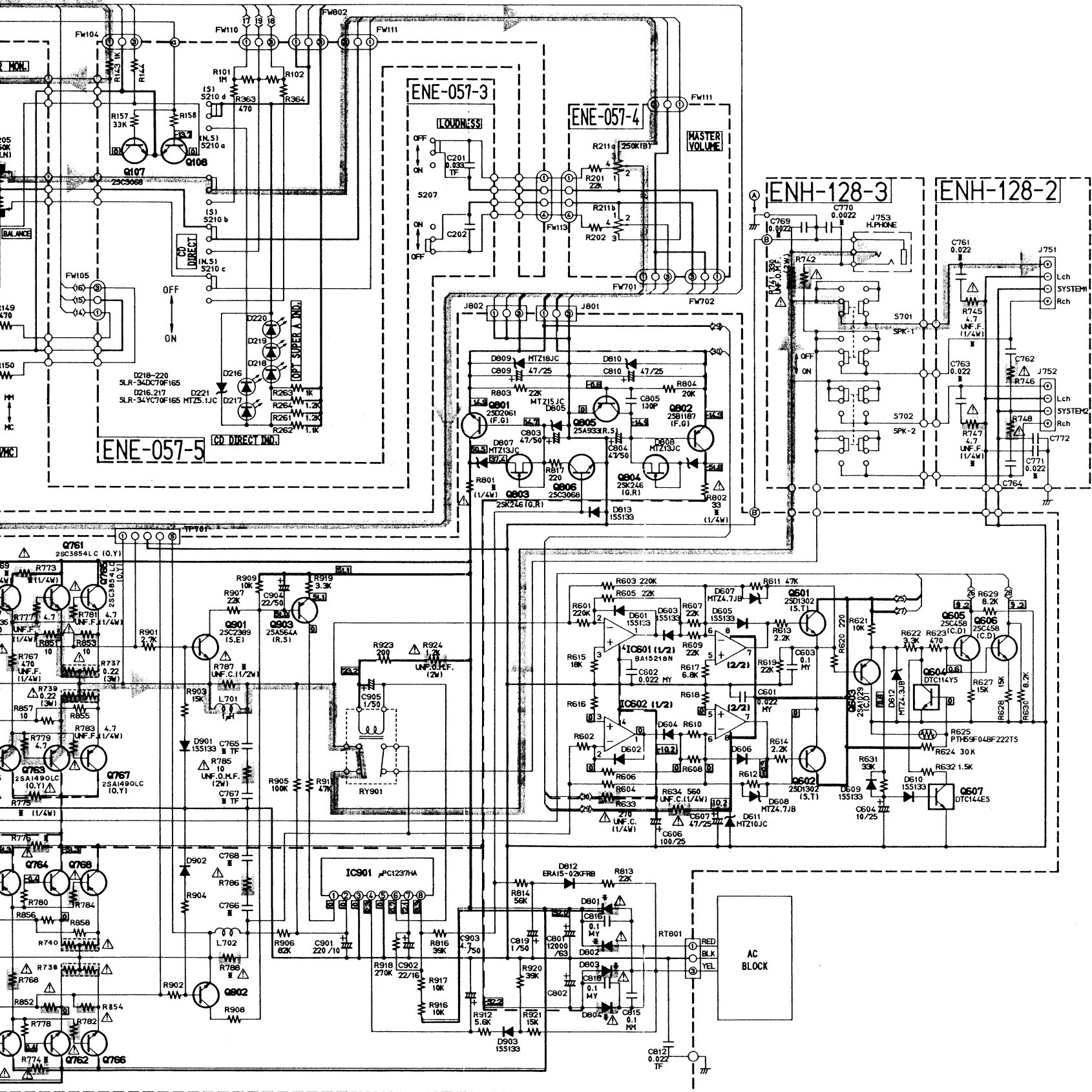
## ■ Source Select and Main Amplifier Section





MARK

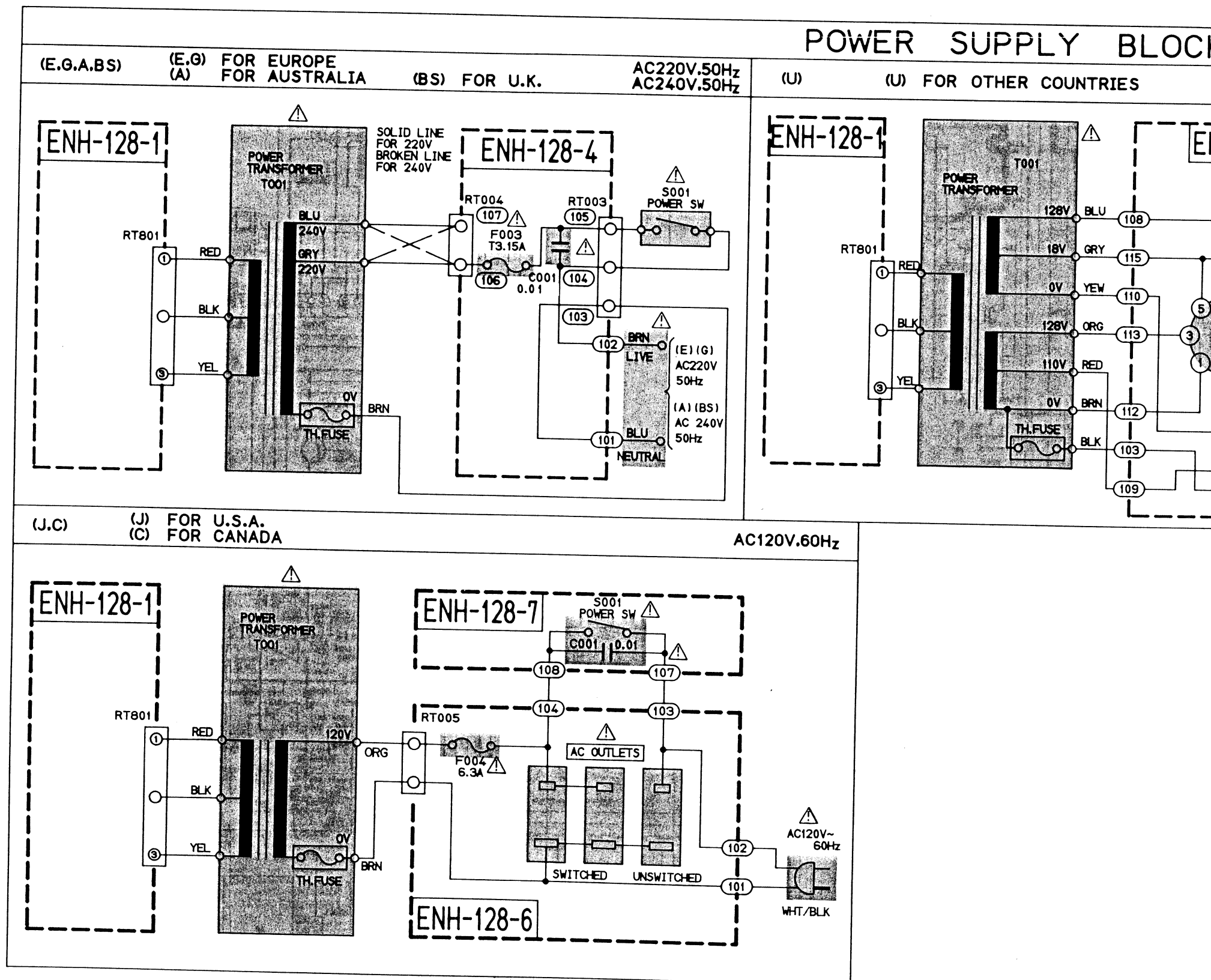
SYMBOL	AREA	(G)	(E, A, B, S, U)	(J, C)
		WEST GERMANY	EUROPE	OTHER AREAS
C101, 102	USED	NONE	NONE	NONE
C103, 104	USED	NONE	NONE	NONE
C105-112	USED	NONE	NONE	NONE
C121, 122	USED	NONE	NONE	NONE
C125, 126	USED	NONE	NONE	NONE
C313, 314	100P	68P	68P	68P
C329, 330	USED	NONE	NONE	NONE
C705, 706	100P	47P	47P	47P
C761-764	USED	NONE	NONE	NONE
C765, 766	0.1	0.1	0.047	0.047
C767, 768	0.1	0.1	SHORT	SHORT
C769, 770	USED	NONE	NONE	NONE
C771, 772	USED	NONE	NONE	NONE
R301, 302	USED	SHORT	SHORT	SHORT
R745-748	USED	NONE	NONE	NONE
R787, 788	100	33	33	33
R769-776	4.7UNF.F.	4.7UNF.F.	10UNF.C	10UNF.C
R801	15UNF.F.	15UNF.F.	22UNF.C	22UNF.C
R802	UNF.F.	UNF.F.	UNF.C	UNF.C
L301-304	USED	NONE	NONE	NONE
⊕	USED	NONE	NONE	NONE
⊖	OPEN	SHORT	SHORT	SHORT
D801-804	30DF25FC	30DL2FC	30DL2FC	30DL2FC



## Power Supply Section

### Notes:

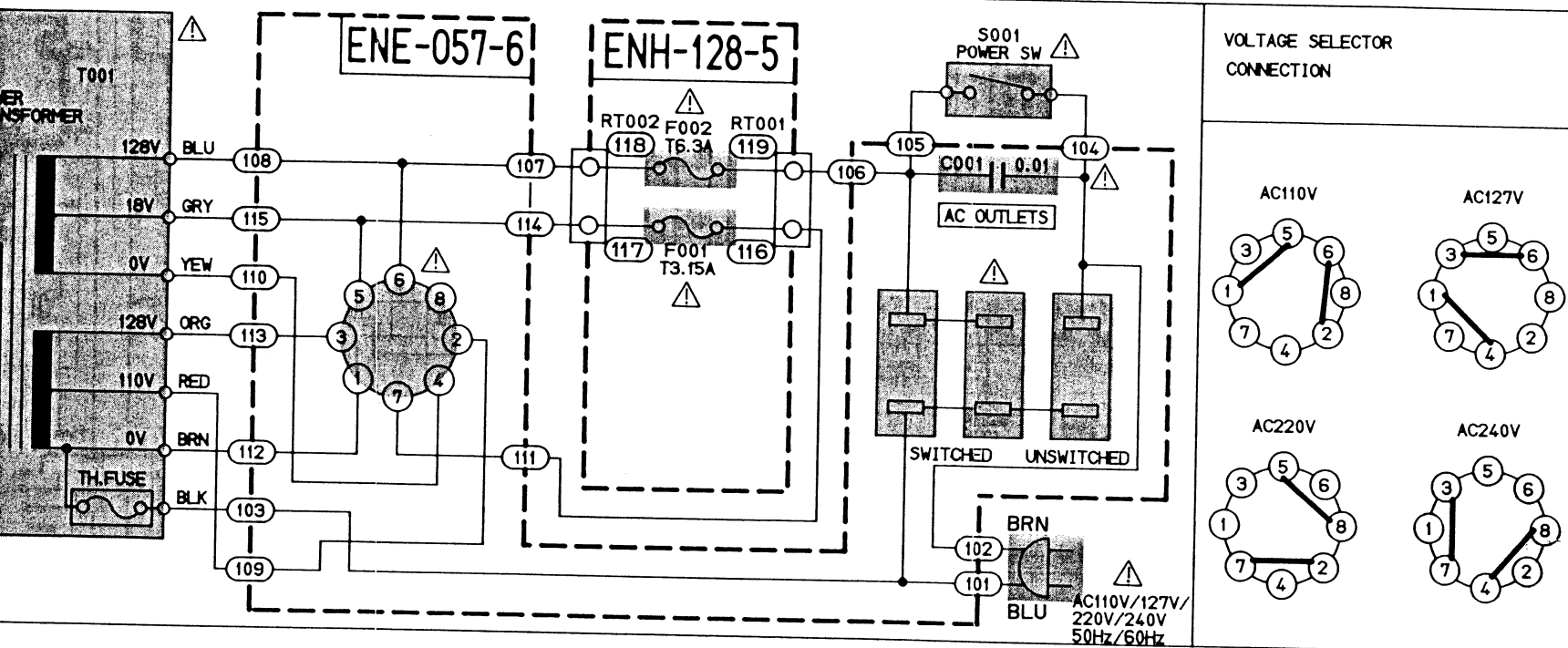
1. ——— indicates + B power supply.
2. - - - indicates - B power supply.
3. ■■■■■ indicates signal path.
4. ■■■■■ shows DC voltage to the chassis with no signal input.
5. When replacing the parts in the darkened are (■■■■■) and those marked with  $\triangle$ , be sure to use the designated parts to ensure safety.
6. This is the standard circuit diagram.  
The design and contents are subject to change without notice.



# SUPPLY BLOCK

OTHER COUNTRIES

AC110V/127V/220V/240V.50/60Hz



VOLTAGE SELECTOR CONNECTION

AC110V

AC127V

AC220V

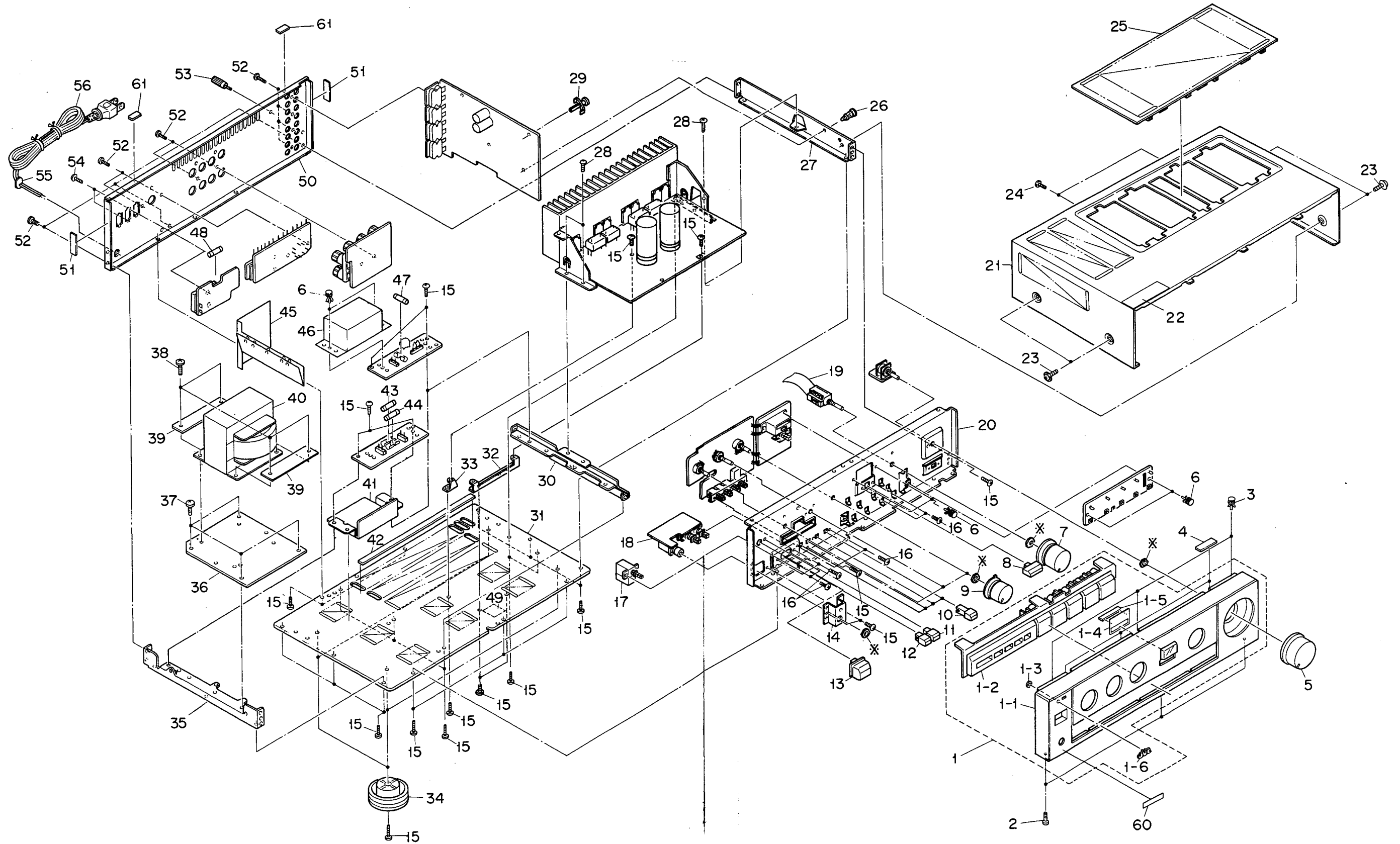
AC240V

# PARTS LIST

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# Exploded View and Parts List



※ mark indicates attached part.

⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
	1	EFP-AX511BKE	Front Panel Ass'y	1		
	1-1	E26392-001	Front Panel	1		
	1-2	E26332-003	Push Button Ass'y	1		
	1-3	E60912-003	Speed Nut	1		
	1-4	E75327-001	Indicator Sheet	1		
	1-5	EXO032003N10S02	Spacer	1		
	1-6	E72968-001	JVC Mark	1		
	2	SBSG3006M	Screw	3		
	3	E48729-009	Plastic Rivet	3		
	4	EXO060007N40S	Felt Spacer	3		
	5	E305980-001	Volume Knob	1		
	6	E48729-008	Plastic Rivet	4		J,C
	7	E48729-008	Plastic Rivet	6		Except J,C
	8	E305982-001	Knob	1		
	8	E75117-001	Push Button	1		
	9	E305981-001	Knob	3		
	10	E75182-001	Push Button	4		
	11	E75073-002	Push Button	1		
	12	E75073-001	Push Button	1		
	13	E75079-001	Power Button	1		
	14	E75186-001	Headphone Bracket	1		
	15	SBSG3008CC	Screw	30		J,C
	15	SBSG3008CC	Screw	34		Except J,C
	16	SBST3006CC	Screw	8		
	17	E71005-001	Switch Cover	1		Except J,C
⚠	18	QSP1106-005	Push Switch	1	S001	Except J,C,BS
	19	QSP1106-005BS	Push Switch	1	S001	BS
	20	QSR2B16-E02	Flex Rotary	1		
	21	E11954-001	Front Bracket	1		
	21	E26269-001	Metal Cover	1		J,C,G,A
	22	E26269-002	Metal Cover	1		E,EF,U,BS
	23	E67000-005	Caution Label	1		
	24	E61660-004	Special Screw	4		
	25	SBSG3008M	Screw	2		
	25	E24134-008	Grill	1		E,EF,U,BS
	26	E303216-001	Fastener	1		
	27	E305801-001	Side Bracket	1	Right	
	28	GBSB3008CC	Screw	3		
	29	E69384-002	Fastener	1		
	30	E305802-001	Center Bracket	1		
	31	E26268-002	Bottom Cover	1		
	32	E75341-001	Circuit Board Bracket	1		
	33	E68587-008	Bracket	1		
	34	E75088-001	Foot Ass'y	4		
	35	E305800-001	Side Bracket	1	Left	
	36	E305803-003	Trans Bracket	1		
	37	E65389-004	Special Screw	4		J,C
	38	E65389-004	Special Screw	4		J,C
	39	E65389-006	Special Screw	4		Except J,C
	39	E75419-001	Plate	2		Except J,C
⚠	40	ETP1200-35JA	Power Transformer	1	T001	J,C
⚠		ETP1200-35FA	Power Transformer	1	T001	U
⚠		ETP1200-35EA	Power Transformer	1	T001	E,EF,A,G
⚠	41	ETP1200-35EABS	Power Transformer	1	T001	BS
	41	E75439-001	Protect Cover	1		Except J,C
⚠	42	EXO255005N60S02	Spacer	1		
⚠	43	QMF51A2-3R15S	Fuse	1	F001	U
⚠	44	QMF51A2-6R3S	Fuse	1	F002	U
	45	E305986-002	Protect Cover	1		Except U
	45	E306241-001	Protect Cover	1		U
⚠	46	E306171-001	Protect Cover	1		Except J,C
⚠	47	QMF51A2-3R15S	Fuse	1	F003	E,EF,A,G
⚠	47	QMF51E2-3R15SBS	Fuse	1	F003	BS
⚠	48	QMF61U1-6R3	Fuse	1	F004	J,C
⚠	49	E70281-001	Caution Label	1		J

⚠ Safety Parts

⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
	50	E70115-002	Caution Label	1		BS
		E26340-001	Rear Panel	1		J,C
		E26340-002	Rear Panel	1		U
		E26340-003	Rear Panel	1		Except J,C,U
		E303260-191	Rating Label	1		E,EF,G
	51	EXO040010R10S10	Spacer	2		
	52	E73273-001	Special Screw	13		
	53	E70078-001	GND Terminal	1		
	54	SDSB3008M	Screw	2		J,C,U
⚠	55	QHS3876-162	Cord Stopper	1		Except BS
⚠	56	QHS3876-162BS	Cord Stopper	1		BS
⚠		QMP1480-200	Power Cord	1		J,C
⚠		QMP7520-200	Power Cord	1		U
⚠		QMP3900-200	Power Cord	1		E,EF,G
⚠		QMP2560-244	Power Cord	1		A
⚠	57	QMP9017-008BS	Power Cord	1		BS
	58	E69589-010	Spacer	1		J
	59	E67199-001	Caution Label	2		J
	60	E65507-001	Caution Label	1		C
	61	E49267-001	Origin Marking Label	1		BS
	61	EXO050010N20S	Felt Spacer	2		

⚠ Safety Parts

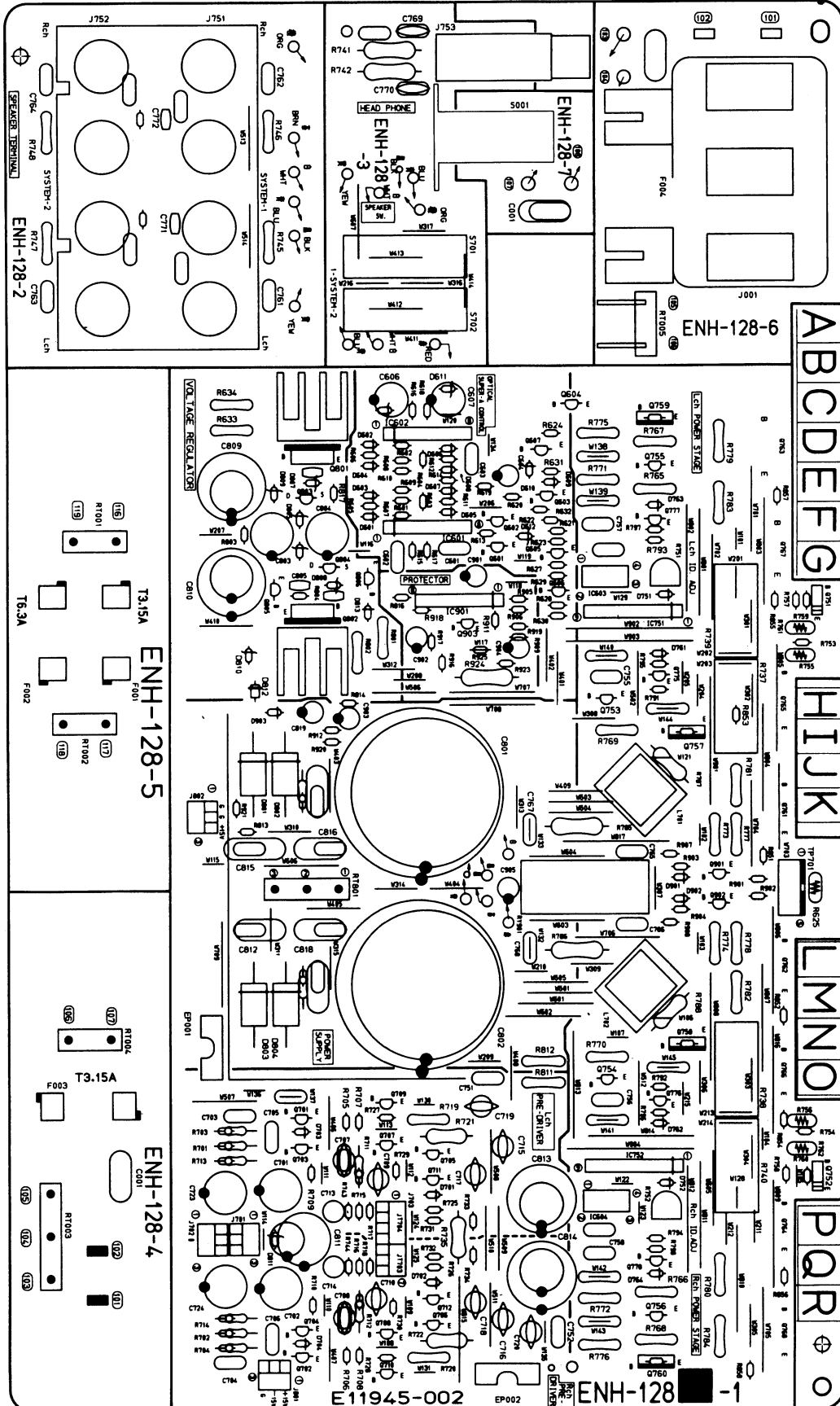
The Marks for Designated Areas

J.....the U.S.A.                      G.....West Germany  
 C.....Canada                          BS.....the U.K.  
 E,EF.....Continental Europe      U.....Other Countries  
 A.....Australia                        No mark indicates all areas.

# Printed Circuit Board Ass'y and Parts List

## ■ ENH-128 □ Main Amplifier PC Board Ass'y

Note: ENH-128 □ varies according to the areas employed. See note (1) when placing an order.





**Note (1)**

PC Board Ass'y	Designated Areas
ENH-128 <b>A</b>	Other Countries
ENH-128 <b>B</b>	Australia, Continental Europe
ENH-128 <b>C</b>	West Germany
ENH-128 <b>D</b> BS	the U.K.
ENH-128 <b>E</b>	the U.S.A., Canada

**Transistors**

ITEM	PART NUMBER	DESCRIPTION		AREA
			MAKER	
Q601	2SD1302(S,T)	SILICON	MATSUSHITA	
Q602	2SD1302(S,T)	SILICON	MATSUSHITA	
Q603	2SA1029(C,D)	SILICON	HITACHI	
Q604	DTC114YS	SILICON	ROHM	
Q605	2SC458(C,D)	SILICON	HITACHI	
Q606	2SC458(C,D)	SILICON	HITACHI	
Q607	DTC144ES	SILICON	ROHM	
Q701	2SC2240(A,B)	SILICON	TOSHIBA	
Q702	2SC2240(A,B)	SILICON	TOSHIBA	
Q703	2SC2240(A,B)	SILICON	TOSHIBA	
Q704	2SC2240(A,B)	SILICON	TOSHIBA	
Q705	2SA970(GR,BL)	SILICON	TOSHIBA	
Q706	2SA970(GR,BL)	SILICON	TOSHIBA	
Q707	2SA970(GR,BL)	SILICON	TOSHIBA	
Q708	2SA970(GR,BL)	SILICON	TOSHIBA	
Q709	2SA933LN(R,S)	SILICON	ROHM	
Q710	2SA933LN(R,S)	SILICON	ROHM	
Q711	2SC2240(GR,BL)	SILICON	TOSHIBA	
Q712	2SC2240(GR,BL)	SILICON	TOSHIBA	
Q751	2SD636(Q,R)	SILICON	MATSUSHITA	
Q752	2SD636(Q,R)	SILICON	MATSUSHITA	
Q753	2SC2240(BL)	SILICON	TOSHIBA	
Q754	2SC2240(BL)	SILICON	TOSHIBA	
Q755	2SA970(BL)	SILICON	TOSHIBA	
Q756	2SA970(BL)	SILICON	TOSHIBA	
Q757	2SC2235(O,Y)	SILICON	TOSHIBA	
Q758	2SC2235(O,Y)	SILICON	TOSHIBA	
Q759	2SA965(O,Y)	SILICON	TOSHIBA	
Q760	2SA965(O,Y)	SILICON	TOSHIBA	
Q761	2SC3854LC(O,P,Y)	SILICON	SANKEN	
Q762	2SC3854LC(O,P,Y)	SILICON	SANKEN	
Q763	2SA1490LC(O,P,Y)	SILICON	SANKEN	
Q764	2SA1490LC(O,P,Y)	SILICON	SANKEN	
Q765	2SC3854LC(O,P,Y)	SILICON	SANKEN	
Q766	2SC3854LC(O,P,Y)	SILICON	SANKEN	
Q767	2SA1490LC(O,P,Y)	SILICON	SANKEN	
Q768	2SA1490LC(O,P,Y)	SILICON	SANKEN	
Q775	2SC2240(GR,BL)	SILICON	TOSHIBA	
Q776	2SC2240(GR,BL)	SILICON	TOSHIBA	
Q777	2SA970(GR,BL)	SILICON	TOSHIBA	
Q778	2SA970(GR,BL)	SILICON	TOSHIBA	
Q801	2SD2061(F,G)	SILICON	ROHM	
Q802	2SB1187(F,G)	SILICON	ROHM	
Q803	2SK246(GR)	F.E.T	TOSHIBA	
Q804	2SK246(GR)	F.E.T	TOSHIBA	
Q805	2SA933S(R,S)	SILICON	ROHM	
Q806	2SC3068	SILICON	SANYO	
Q901	2SC2389(S,E)	SILICON	ROHM	
Q902	2SC2389(S,E)	SILICON	ROHM	
Q903	2SA564A(R,S)	SILICON	MATSUSHITA	

△ : SAFETY PARTS

**I.C.s**

ITEM	PART NUMBER	DESCRIPTION		AREA
			MAKER	
IC601	BA15218N	I.C.	mitsubishi	
IC602	BA15218N	I.C.	mitsubishi	
IC603	PC817A	I.C.	SHARP	
IC604	PC817A	I.C.	SHARP	
IC751	VC5022(X,Y)	I.C.	ROHM	
IC752	VC5022(X,Y)	I.C.	ROHM	
IC901	UPC1237HA	I.C.	RYOSAN	

△ : SAFETY PARTS

**Diodes**

ITEM	PART NUMBER	DESCRIPTION			AREA
				MAKER	
D601	1SS133	SILICON	ROHM		
D602	1SS133	SILICON	ROHM		
D603	1SS133	SILICON	ROHM		
D604	1SS133	SILICON	ROHM		
D605	1SS133	SILICON	ROHM		
D606	1SS133	SILICON	ROHM		
D607	MTZ4.7JB	ZENER	ROHM		
D608	MTZ4.7JB	ZENER	ROHM		
D609	1SS133	SILICON	ROHM		
D610	1SS133	SILICON	ROHM		
D611	MTZ10JC	ZENER	ROHM		
D612	MTZ4.3JB	ZENER	ROHM		
D701	1SS133	SILICON	ROHM		
D702	1SS133	SILICON	ROHM		
D703	1SS133	SILICON	ROHM		
D704	1SS133	SILICON	ROHM		
D751	1SS133	SILICON	ROHM		
D752	1SS133	SILICON	ROHM		
D761	1SS133	SILICON	ROHM		
D762	1SS133	SILICON	ROHM		
D763	1SS133	SILICON	ROHM		
D764	1SS133	SILICON	ROHM		
D801	30DF2SFC	SILICON	NIHONINTER	C	
D801	30DL2FC	SILICON	NIHONINTER	A	
D801	30DL2FC	SILICON	NIHONINTER	B	
D801	30DL2FC	SILICON	NIHONINTER	DBS	
D801	30DL2FC	SILICON	NIHONINTER	E	
D802	30DF2SFC	SILICON	NIHONINTER	C	
D802	30DL2FC	SILICON	NIHONINTER	A	
D802	30DL2FC	SILICON	NIHONINTER	B	
D802	30DL2FC	SILICON	NIHONINTER	DBS	
D802	30DL2FC	SILICON	NIHONINTER	E	
D803	30DF2SFC	SILICON	NIHONINTER	C	
D803	30DL2FC	SILICON	NIHONINTER	A	
D803	30DL2FC	SILICON	NIHONINTER	B	
D803	30DL2FC	SILICON	NIHONINTER	DBS	
D803	30DL2FC	SILICON	NIHONINTER	E	
D804	30DF2SFC	SILICON	NIHONINTER	C	
D804	30DL2FC	SILICON	NIHONINTER	A	
D804	30DL2FC	SILICON	NIHONINTER	B	
D804	30DL2FC	SILICON	NIHONINTER	DBS	
D804	30DL2FC	SILICON	NIHONINTER	E	
D805	MTZ15JC	ZENER	ROHM		
D807	MTZ13JC	ZENER	ROHM		
D808	MTZ13JC	ZENER	ROHM		
D809	MTZ18JC	ZENER	ROHM		
D810	MTZ18JC	ZENER	ROHM		
D811	MTZ18JC	ZENER	ROHM		
D812	ERA15-02L19	SILICON	KYODOU		
D813	1SS133	SILICON	ROHM		
D901	1SS133	SILICON	ROHM		
D902	1SS133	SILICON	ROHM		
D903	1SS133	SILICON	ROHM		

△ : SAFETY PARTS

**Capacitors**

ITEM	PART NUMBER	DESCRIPTION			AREA
C001	QCZ9038-103	0.01MF		CERAMIC	B
C001	QCZ9038-103	0.01MF		CERAMIC	C
C001	QCZ9038-103	0.01MF		CERAMIC	E
C001	QCZ9038-103BS	0.01MF		CERAMIC	DBS
C601	QFN81HJ-223	0.022MF	50V	MYLAR	
C602	QFN81HJ-223	0.022MF	50V	MYLAR	
C603	QFN81HK-104	0.1MF	50V	MYLAR	
C604	QETB1EM-106	10MF	25V	ELECTRO	
C606	QETB1EM-107	100MF	25V	ELECTRO	
C607	QETB1EM-476	47MF	25V	ELECTRO	
C701	EEZ5009-106	10MF		ELECTRO	
C702	EEZ5009-106	10MF		ELECTRO	
C703	QFP81HJ-101	100PF	50V	POLY	
C704	QFP81HJ-101	100PF	50V	POLY	
C705	QFP81HJ-101	100PF	50V	POLY	C
C705	QFP81HJ-470	47PF	50V	POLY	A
C705	QFP81HJ-470	47PF	50V	POLY	B
C705	QFP81HJ-470	47PF	50V	POLY	DBS
C705	QFP81HJ-470	47PF	50V	POLY	E
C706	QFP81HJ-101	100PF	50V	POLY	C
C706	QFP81HJ-470	47PF	50V	POLY	A
C706	QFP81HJ-470	47PF	50V	POLY	B
C706	QFP81HJ-470	47PF	50V	POLY	DBS
C706	QFP81HJ-470	47PF	50V	POLY	E
C707	QCS21HJ-471	470PF	50V	CERAMIC	

△ : SAFETY PARTS



Resistors

△	ITEM	PART NUMBER	DESCRIPTION	AREA
△	R771	QRZ0077-4R7	4.7 1/4W FUSIBLE	A
△	R771	QRZ0077-4R7	4.7 1/4W FUSIBLE	B
△	R771	QRZ0077-4R7	4.7 1/4W FUSIBLE	C
△	R771	QRZ0077-4R7	4.7 1/4W FUSIBLE	DBS
△	R772	QRD14CJ-100S	10 1/4W UNF. CARBON	E
△	R772	QRZ0077-4R7	4.7 1/4W FUSIBLE	A
△	R772	QRZ0077-4R7	4.7 1/4W FUSIBLE	B
△	R772	QRZ0077-4R7	4.7 1/4W FUSIBLE	C
△	R772	QRZ0077-4R7	4.7 1/4W FUSIBLE	DBS
△	R773	QRD14CJ-100S	10 1/4W UNF. CARBON	E
△	R773	QRZ0077-4R7	4.7 1/4W FUSIBLE	A
△	R773	QRZ0077-4R7	4.7 1/4W FUSIBLE	B
△	R773	QRZ0077-4R7	4.7 1/4W FUSIBLE	C
△	R773	QRZ0077-4R7	4.7 1/4W FUSIBLE	DBS
△	R774	QRD14CJ-100S	10 1/4W UNF. CARBON	E
△	R774	QRZ0077-4R7	4.7 1/4W FUSIBLE	A
△	R774	QRZ0077-4R7	4.7 1/4W FUSIBLE	B
△	R774	QRZ0077-4R7	4.7 1/4W FUSIBLE	C
△	R774	QRZ0077-4R7	4.7 1/4W FUSIBLE	DBS
△	R775	QRD14CJ-100S	10 1/4W UNF. CARBON	E
△	R775	QRZ0077-4R7	4.7 1/4W FUSIBLE	A
△	R775	QRZ0077-4R7	4.7 1/4W FUSIBLE	B
△	R775	QRZ0077-4R7	4.7 1/4W FUSIBLE	C
△	R775	QRZ0077-4R7	4.7 1/4W FUSIBLE	DBS
△	R776	QRD14CJ-100S	10 1/4W UNF. CARBON	E
△	R776	QRZ0077-4R7	4.7 1/4W FUSIBLE	A
△	R776	QRZ0077-4R7	4.7 1/4W FUSIBLE	B
△	R776	QRZ0077-4R7	4.7 1/4W FUSIBLE	C
△	R776	QRZ0077-4R7	4.7 1/4W FUSIBLE	DBS
△	R777	QRZ0077-4R7	4.7 1/4W FUSIBLE	A
△	R778	QRZ0077-4R7	4.7 1/4W FUSIBLE	B
△	R779	QRZ0077-4R7	4.7 1/4W FUSIBLE	C
△	R780	QRZ0077-4R7	4.7 1/4W FUSIBLE	DBS
△	R781	QRZ0077-4R7	4.7 1/4W FUSIBLE	A
△	R782	QRZ0077-4R7	4.7 1/4W FUSIBLE	B
△	R783	QRZ0077-4R7	4.7 1/4W FUSIBLE	C
△	R784	QRZ0077-4R7	4.7 1/4W FUSIBLE	DBS
△	R785	QRG022J-100A	10 2W O.M. FILM	E
△	R786	QRG022J-100A	10 2W O.M. FILM	E
△	R787	QRD125J-101	100 1/2W UNF. CARBON	C
△	R787	QRD125J-330	33 1/2W UNF. CARBON	A
△	R787	QRD125J-330	33 1/2W UNF. CARBON	B
△	R787	QRD125J-330	33 1/2W UNF. CARBON	DBS
△	R787	QRD125J-330	33 1/2W UNF. CARBON	E
△	R788	QRD125J-101	100 1/2W UNF. CARBON	C
△	R788	QRD125J-330	33 1/2W UNF. CARBON	A
△	R788	QRD125J-330	33 1/2W UNF. CARBON	B
△	R788	QRD125J-330	33 1/2W UNF. CARBON	DBS
△	R788	QRD125J-330	33 1/2W UNF. CARBON	E
△	R791	QRD167J-561	560 1/6W CARBON	A
△	R792	QRD167J-561	560 1/6W CARBON	B
△	R793	QRD167J-561	560 1/6W CARBON	C
△	R794	QRD167J-561	560 1/6W CARBON	DBS
△	R795	QRD167J-221	220 1/6W CARBON	A
△	R796	QRD167J-221	220 1/6W CARBON	B
△	R797	QRD167J-181	180 1/6W CARBON	C
△	R798	QRD167J-181	180 1/6W CARBON	DBS
△	R801	QRD14CJ-330S	33 1/4W UNF. CARBON	E
△	R801	QRZ0077-330	33 1/4W FUSIBLE	A
△	R801	QRZ0077-330	33 1/4W FUSIBLE	B
△	R801	QRZ0077-330	33 1/4W FUSIBLE	C
△	R801	QRZ0077-330	33 1/4W FUSIBLE	DBS
△	R802	QRD14CJ-330S	33 1/4W UNF. CARBON	E
△	R802	QRZ0077-330	33 1/4W FUSIBLE	A
△	R802	QRZ0077-330	33 1/4W FUSIBLE	B
△	R802	QRZ0077-330	33 1/4W FUSIBLE	C
△	R802	QRZ0077-330	33 1/4W FUSIBLE	DBS
△	R803	QRD167J-223	22K 1/6W CARBON	A
△	R804	QRD167J-203	20K 1/6W CARBON	B
△	R811	QRD14CJ-330S	33 1/4W UNF. CARBON	E
△	R812	QRD14CJ-330S	33 1/4W UNF. CARBON	E
△	R813	QRD167J-223	22K 1/6W CARBON	A
△	R814	QRD167J-563	56K 1/6W CARBON	B
△	R816	QRD167J-393	39K 1/6W CARBON	C
△	R817	QRD167J-221	220 1/6W CARBON	DBS
△	R851	QRD167J-100	10 1/6W CARBON	A
△	R852	QRD167J-100	10 1/6W CARBON	B
△	R853	QRD167J-100	10 1/6W CARBON	C
△	R854	QRD167J-100	10 1/6W CARBON	DBS
△	R855	QRD167J-100	10 1/6W CARBON	A
△	R856	QRD167J-100	10 1/6W CARBON	B
△	R857	QRD167J-100	10 1/6W CARBON	C
△	R858	QRD167J-100	10 1/6W CARBON	DBS
△	R901	QRD167J-272	2.7K 1/6W CARBON	A
△	R902	QRD167J-272	2.7K 1/6W CARBON	B
△	R903	QRD167J-153	15K 1/6W CARBON	C
△	R904	QRD167J-153	15K 1/6W CARBON	DBS
△	R905	QRD167J-104	100K 1/6W CARBON	E

△ : SAFETY PARTS

Resistors

△	ITEM	PART NUMBER	DESCRIPTION	AREA
	R906	QRD167J-823	82K 1/6W CARBON	A
	R907	QRD167J-223	22K 1/6W CARBON	B
	R908	QRD167J-223	22K 1/6W CARBON	C
	R909	QRD167J-103	10K 1/6W CARBON	DBS
	R911	QRD167J-473	47K 1/6W CARBON	A
	R912	QRD167J-562	5.6K 1/6W CARBON	B
	R916	QRD167J-103	10K 1/6W CARBON	C
	R917	QRD167J-103	10K 1/6W CARBON	DBS
	R918	QRD167J-224	220K 1/6W CARBON	A
	R919	QRD167J-332	3.3K 1/6W CARBON	B
	R920	QRD167J-393	39K 1/6W CARBON	C
	R921	QRD167J-153	15K 1/6W CARBON	DBS
	R923	QRD167J-201	200 1/6W CARBON	A
△	R924	QRG022J-122A	1.2K 2W O.M. FILM	E

△ : SAFETY PARTS

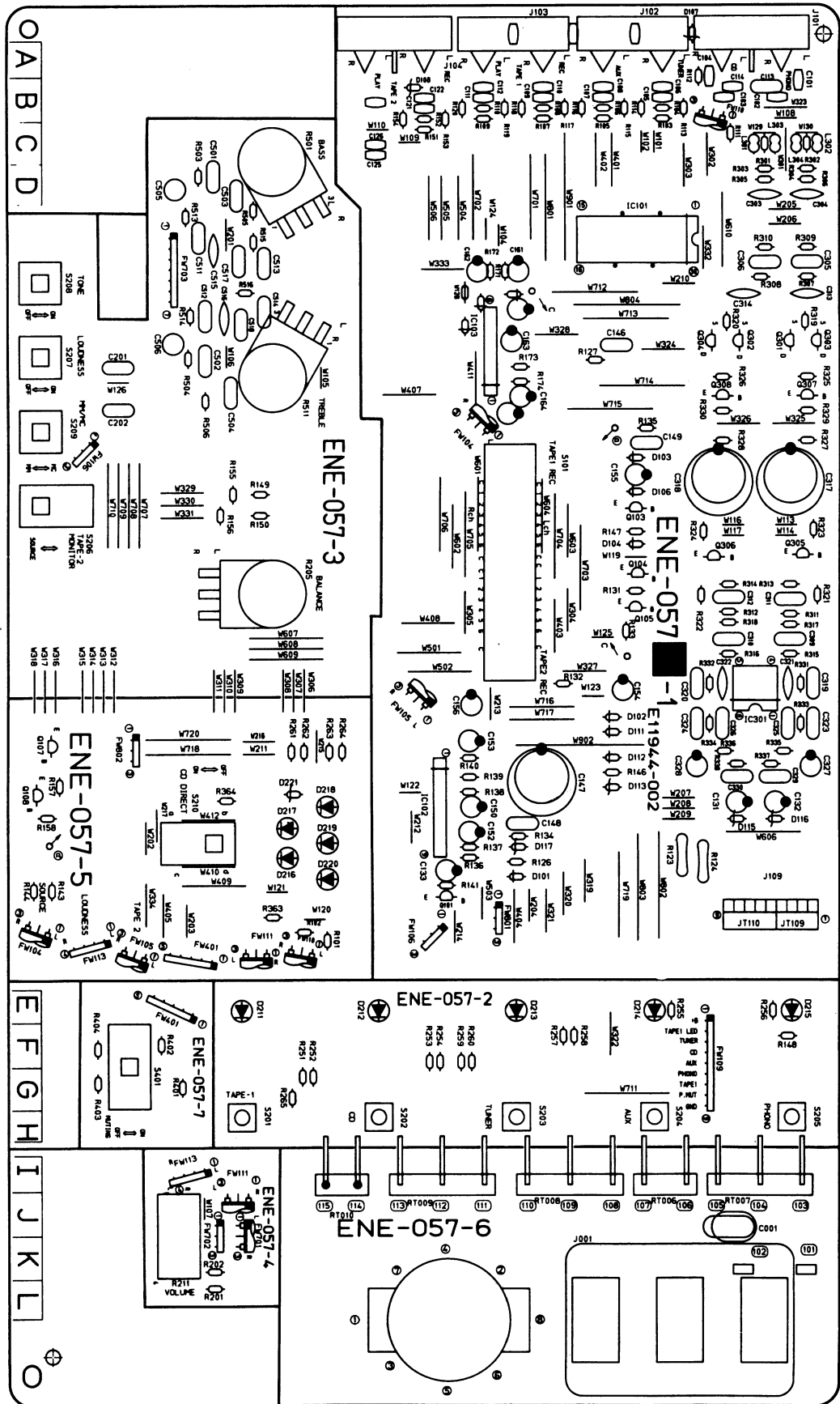
Others

△	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMG7331-002U	FUSE CLIP	A
		EMG7331-002U	FUSE CLIP	B
		EMG7331-002U	FUSE CLIP	C
		EMG7331-002U	FUSE CLIP	DBS
		EMG7331-002	FUSE CLIP	A
		EMG7331-002	FUSE CLIP	B
		EMG7331-002	FUSE CLIP	C
		EMG7331-002	FUSE CLIP	DBS
		EWTO11-079	TERMINAL WIRE	C
		E03675-004	FUSE CLIP	E
		E03891-001	TAB	E
		E11945-003	CIRCUIT BOARD	A
		E11945-003	CIRCUIT BOARD	B
		E11945-003	CIRCUIT BOARD	C
		E11945-003	CIRCUIT BOARD	E
		E11945-003BS	CIRCUIT BOARD	DBS
		E300209-031	HEAT SINK	E
		E305991-001	BRACKET	E
		E305992-001	BRACKET	E
		E33754-001	TIE BAND	E
		E65508-002	TAB	B
		E65508-002	TAB	C
		E65508-002	TAB	DBS
		E70945-H25	HEAT SINK	E
		E70945-H40	HEAT SINK	E
		E73525-003	SCREW	E
		SBSB3008CC	SCREW	E
		SBSB3008CC	SCREW	E
		SBSB3008CC	SCREW	E
△	J001	QMC0638-001	AC OUTLET	E
	J701	EMV7122-003	CONNECTOR	E
	J702	EMV7122-003	CONNECTOR	E
	J751	EMB00TP-801G	SPEAKER TERMINAL	E
	J751	EMB00TP-801H	SPEAKER TERMINAL	A
	J751	EMB00TP-801H	SPEAKER TERMINAL	B
	J751	EMB00TP-801H	SPEAKER TERMINAL	C
	J751	EMB00TP-801H	SPEAKER TERMINAL	DBS
	J751	EMB00TP-801G	SPEAKER TERMINAL	E
	J752	EMB00TP-801H	SPEAKER TERMINAL	A
	J752	EMB00TP-801H	SPEAKER TERMINAL	B
	J752	EMB00TP-801H	SPEAKER TERMINAL	C
	J752	EMB00TP-801H	SPEAKER TERMINAL	DBS
	J752	EMB00TP-801H	SPEAKER TERMINAL	E
	J801	EMV7122-003	CONNECTOR	E
	J802	EMV7122-003	CONNECTOR	E
	L701	EQL0001-1R0	INDUCTOR	E
	L702	EQL0001-1R0	INDUCTOR	E
△	S001	QSP1106-005	POWER SWITCH	E
	S701	QST4231-E04	PUSH SWITCH	E
	S702	QST4231-E04	PUSH SWITCH	E
	EP001	E70859-001	EARTH PLATE	E
	EP002	E70859-001	EARTH PLATE	E
	JT703	EMV7122-003	CONNECTOR	E
	JT704	EMV7122-004	CONNECTOR	E
	RT001	E67764-202	WRAPPING TERMINAL	A
	RT002	E67764-202	WRAPPING TERMINAL	B
	RT003	E67764-203	WRAPPING TERMINAL	C
	RT003	E67764-203	WRAPPING TERMINAL	DBS
	RT004	E67764-202	WRAPPING TERMINAL	B
	RT004	E67764-202	WRAPPING TERMINAL	C
	RT004	E67764-202	WRAPPING TERMINAL	DBS
	RT005	E67764-302	WRAPPING TERMINAL	E
	RTB01	E67764-103	WRAPPING TERMINAL	E
	RY901	ESK5D24-218	RELAY	E
	TP701	QMV5005-005K	PLUG ASSY	E

△ : SAFETY PARTS

■ ENE-057 □ Source Selector PC Board Ass'y

Note: ENE-057 □ varies according to the areas employed. See note (1) when placing an order.





Resistors

ITEM	PART NUMBER	DESCRIPTION	AREA
R108	QRD167J-105	1M 1/6W CARBON	
R109	QRD167J-105	1M 1/6W CARBON	
R110	QRD167J-105	1M 1/6W CARBON	
R111	QRD167J-471	470 1/6W CARBON	
R112	QRD167J-471	470 1/6W CARBON	
R113	QRD167J-471	470 1/6W CARBON	
R114	QRD167J-471	470 1/6W CARBON	
R115	QRD167J-471	470 1/6W CARBON	
R116	QRD167J-471	470 1/6W CARBON	
R117	QRD167J-471	470 1/6W CARBON	
R118	QRD167J-471	470 1/6W CARBON	
R119	QRD167J-471	470 1/6W CARBON	
R120	QRD167J-471	470 1/6W CARBON	
△ R123	QRZ0077-101	100 1/4W FUSIBLE	
△ R124	QRZ0077-101	100 1/4W FUSIBLE	
R126	QRD167J-104	100K 1/6W CARBON	
R127	QRD167J-104	100K 1/6W CARBON	
R131	QRD167J-103	10K 1/6W CARBON	
R132	QRD167J-103	10K 1/6W CARBON	
R133	QRD167J-102	1K 1/6W CARBON	
R134	QRD167J-103	10K 1/6W CARBON	
R135	QRD167J-474	470K 1/6W CARBON	
R136	QRD167J-562	5.6K 1/6W CARBON	
R137	QRD167J-473	47K 1/6W CARBON	
R138	QRD167J-392	3.9K 1/6W CARBON	
R139	QRD167J-104	100K 1/6W CARBON	
R140	QRD167J-104	100K 1/6W CARBON	
R141	QRD167J-223	22K 1/6W CARBON	
R143	QRD167J-102	1K 1/6W CARBON	
R144	QRD167J-102	1K 1/6W CARBON	
R146	QRD167J-122	1.2K 1/6W CARBON	
R147	QRD167J-473	47K 1/6W CARBON	
R148	QRD167J-273	27K 1/6W CARBON	
R149	QRD167J-471	470 1/6W CARBON	
R150	QRD167J-471	470 1/6W CARBON	
R151	QRD167J-105	1M 1/6W CARBON	
R152	QRD167J-105	1M 1/6W CARBON	
R153	QRD167J-471	470 1/6W CARBON	
R154	QRD167J-471	470 1/6W CARBON	
R155	QRD167J-105	1M 1/6W CARBON	
R156	QRD167J-105	1M 1/6W CARBON	
R157	QRD167J-333	33K 1/6W CARBON	
R158	QRD167J-333	33K 1/6W CARBON	
R171	QRD167J-473	47K 1/6W CARBON	
R172	QRD167J-473	47K 1/6W CARBON	
R173	QRD167J-474	470K 1/6W CARBON	
R174	QRD167J-474	470K 1/6W CARBON	
R201	QRD167J-223	22K 1/6W CARBON	
R202	QRD167J-223	22K 1/6W CARBON	
R205	QVDBB7M-EF5B	250K VARIABLE	
R211	QVDBA7B-AF5VA	250K VARIABLE	
R251	QRD167J-122	1.2K 1/6W CARBON	
R252	QRD167J-122	1.2K 1/6W CARBON	
R253	QRD167J-122	1.2K 1/6W CARBON	
R254	QRD167J-122	1.2K 1/6W CARBON	
R255	QRD167J-122	1.2K 1/6W CARBON	
R256	QRD167J-122	1.2K 1/6W CARBON	
R257	QRD167J-122	1.2K 1/6W CARBON	
R258	QRD167J-122	1.2K 1/6W CARBON	
R259	QRD167J-122	1.2K 1/6W CARBON	
R260	QRD167J-122	1.2K 1/6W CARBON	
R261	QRD167J-122	1.2K 1/6W CARBON	
R262	QRD167J-112	1.1K 1/6W CARBON	
R263	QRD167J-102	1K 1/6W CARBON	
R264	QRD167J-122	1.2K 1/6W CARBON	
R265	QRD167J-104	100K 1/6W CARBON	
R301	QRD167J-331	330 1/6W CARBON	B
R302	QRD167J-331	330 1/6W CARBON	B
R303	QRD167J-473	47K 1/6W CARBON	
R304	QRD167J-473	47K 1/6W CARBON	
R305	QRD167J-471	470 1/6W CARBON	
R306	QRD167J-471	470 1/6W CARBON	
R307	QRD167J-5R6	5.6 1/6W CARBON	
R308	QRD167J-5R6	5.6 1/6W CARBON	
R309	QRD167J-101	100 1/6W CARBON	
R310	QRD167J-101	100 1/6W CARBON	
R311	QRD167J-562	5.6K 1/6W CARBON	
R312	QRD167J-562	5.6K 1/6W CARBON	
R313	QRD167J-270	27 1/6W CARBON	
R314	QRD167J-270	27 1/6W CARBON	
R315	QRD167J-561	560 1/6W CARBON	
R316	QRD167J-561	560 1/6W CARBON	
R317	QRD167J-562	5.6K 1/6W CARBON	
R318	QRD167J-562	5.6K 1/6W CARBON	
R319	QRD167J-222	2.2K 1/6W CARBON	
R320	QRD167J-222	2.2K 1/6W CARBON	
R321	QRD167J-272	2.7K 1/6W CARBON	
R322	QRD167J-272	2.7K 1/6W CARBON	

△ : SAFETY PARTS

Resistors

ITEM	PART NUMBER	DESCRIPTION	AREA
R323	QRD167J-273	27K 1/6W CARBON	
R324	QRD167J-273	27K 1/6W CARBON	
R325	QRD167J-273	27K 1/6W CARBON	
R326	QRD167J-273	27K 1/6W CARBON	
R327	QRD167J-180	18 1/6W CARBON	
R328	QRD167J-180	18 1/6W CARBON	
R329	QRD167J-221	220 1/6W CARBON	
R330	QRD167J-221	220 1/6W CARBON	
R331	QRD167J-153	15K 1/6W CARBON	
R332	QRD167J-153	15K 1/6W CARBON	
R333	QRD167J-184	180K 1/6W CARBON	
R334	QRD167J-184	180K 1/6W CARBON	
R335	QRD167J-471	470 1/6W CARBON	
R336	QRD167J-471	470 1/6W CARBON	
R337	QRD167J-104	100K 1/6W CARBON	
R338	QRD167J-104	100K 1/6W CARBON	
R363	QRD167J-471	470 1/6W CARBON	
R364	QRD167J-471	470 1/6W CARBON	
R501	QVDBB7C-E15B	100K VARIABLE	
R503	QRD167J-203	20K 1/6W CARBON	
R504	QRD167J-203	20K 1/6W CARBON	
R505	QRD167J-362	3.6K 1/6W CARBON	
R506	QRD167J-362	3.6K 1/6W CARBON	
R511	QVDBB7C-E15B	100K VARIABLE	
R513	QRD167J-472	4.7K 1/6W CARBON	
R514	QRD167J-472	4.7K 1/6W CARBON	
R515	QRD167J-821	820 1/6W CARBON	
R516	QRD167J-821	820 1/6W CARBON	

△ : SAFETY PARTS

Others

ITEM	PART NUMBER	DESCRIPTION	AREA
	E11944-003	CIRCUIT BOARD	
	E305983-001	HOLDER	
	E65508-002	TAB	
△ J001	QSR0085-009	VOLTAGE SELECTOR	C
△ J001	QMC0637-004	AC OUTLET	C
J101	EMN00TV-408A	4P PIN JACK	
J102	EMN00TV-404A	4P PIN JACK	
J103	EMN00TV-404A	4P PIN JACK	
J104	EMN00TV-404A	4P PIN JACK	
L301	EQL4004-270	INDUCTOR	B
L302	EQL4004-270	INDUCTOR	B
L303	EQL4004-220	INDUCTOR	B
L304	EQL4004-220	INDUCTOR	B
S101	QSS1J46-E01	SLIDE SWITCH	
S201	ESP0001-018	TACT SWITCH	
S202	ESP0001-018	TACT SWITCH	
S203	ESP0001-018	TACT SWITCH	
S204	ESP0001-018	TACT SWITCH	
S205	ESP0001-018	TACT SWITCH	
S206	QSTL451-E01	PUSH SWITCH	
S210	QSTL101-E04	PUSH SWITCH	
FW104	EWR23C-35NN	FLAT WIRE	
FW105	EWR23C-30NN	FLAT WIRE	
FW106	EWR33B-35SST	FLAT WIRE	
FW109	EWR39B-20LST	FLAT WIRE	
FW110	EWR23C-40NN	FLAT WIRE	
FW111	EWR23C-16NN	FLAT WIRE	
FW113	EWR34B-20SST	FLAT WIRE	
FW701	EWR23C-13LN	FLAT WIRE	
FW702	EWR33B-13LST	FLAT WIRE	
FW703	EWR37B-40LST	FLAT WIRE	
FW801	EWR33B-10LST	FLAT WIRE	
FW802	EWR33B-20LST	FLAT WIRE	
JT109	EMV7122-004	CONNECTOR	
JT110	EMV7122-005	CONNECTOR	
RT006	E67764-302	WRAPPING TERMINAL	C
RT007	E67764-303	WRAPPING TERMINAL	C
RT008	E67764-303	WRAPPING TERMINAL	C
RT009	E67764-303	WRAPPING TERMINAL	C
RT010	E67764-402	WRAPPING TERMINAL	C

△ : SAFETY PARTS

## Accessories List

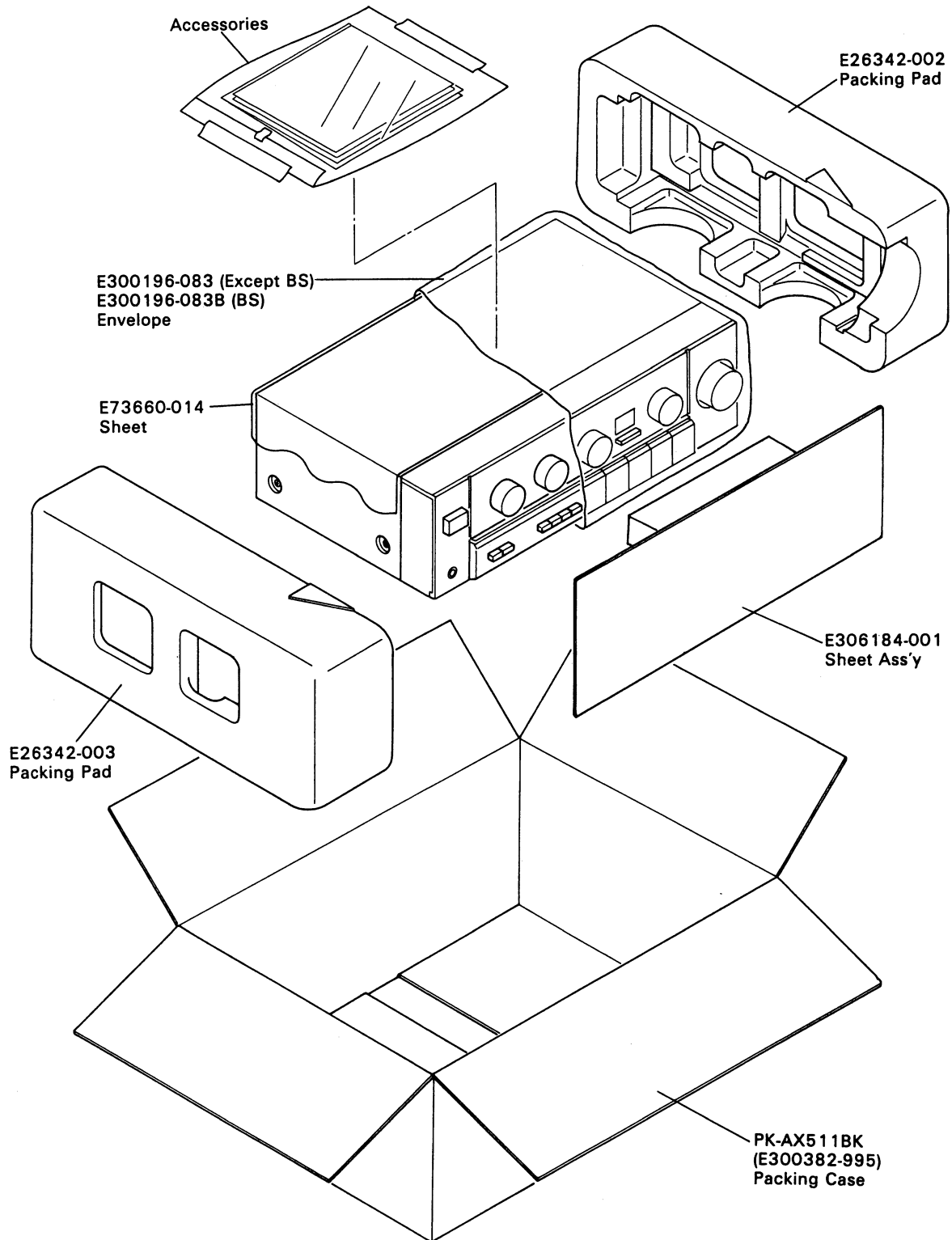
⚠	Part Number	Part Name	Q'ty	Description	Areas
	E30580-1518A E30580-1518ABS BT-20048C BT-20025K BT20029C	Instruction Book Instruction Book Warranty Card Warranty Card Warranty Card	1 1 1 1 1		Except BS BS J C A
	BT-20064A BT20060 BT20108 BT20044F BT20071A	Warranty Card Warranty Card Service Information Card Safety Instruction Sheet Service Center List	1 1 1 1 1		G BS J J C
	BT20066A BT20098 QZL1008-001 E72360-001 E35497-019	ECC Agency Audio Warranty FTZ Information Sheet Caution Sheet Caution Sheet	1 1 1 1 1	for New Zealand   220V	G,BS A G C U
⚠	E43486-340A E04056 E66416-003 E41202-2 E41202-2B	Safety Sheet Siemens Plug Envelope Envelope Envelope	1 1 1 1 1	for Warranty Card for Instruction Book for Instruction Book	BS U J Except BS BS

⚠ Safety Parts

### The Marks for Designated Areas

J.....the U.S.A.	G.....West Germany
C.....Canada	BS.....the U.K.
E,EF.....Continental Europe	U.....Other Countries
A.....Australia	<b>No mark indicates all areas.</b>

# Packing Materials and Part Numbers



The Marks for Designated Areas	
J.....the U.S.A.	G.....West Germany
C.....Canada	BS.....the U.K.
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A.....Australia	No mark indicates all areas.