

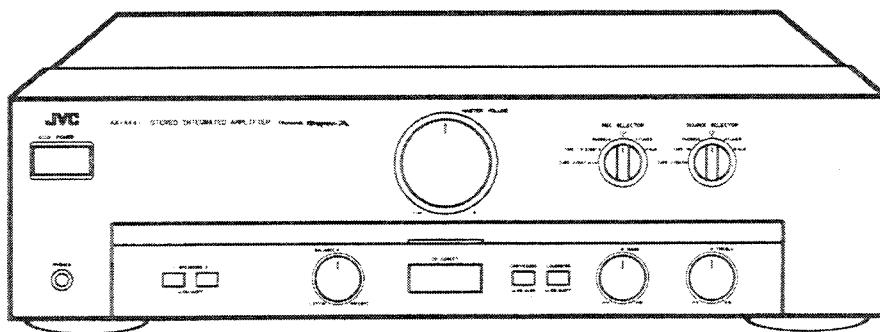
JVC

SERVICE MANUAL

STEREO INTEGRATED AMPLIFIER

**AX-A441TN
AX-A442BK**

MODEL No.

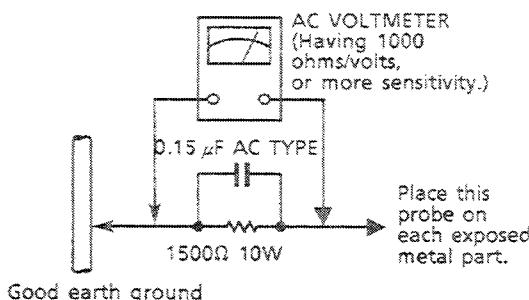


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Safety Precautions

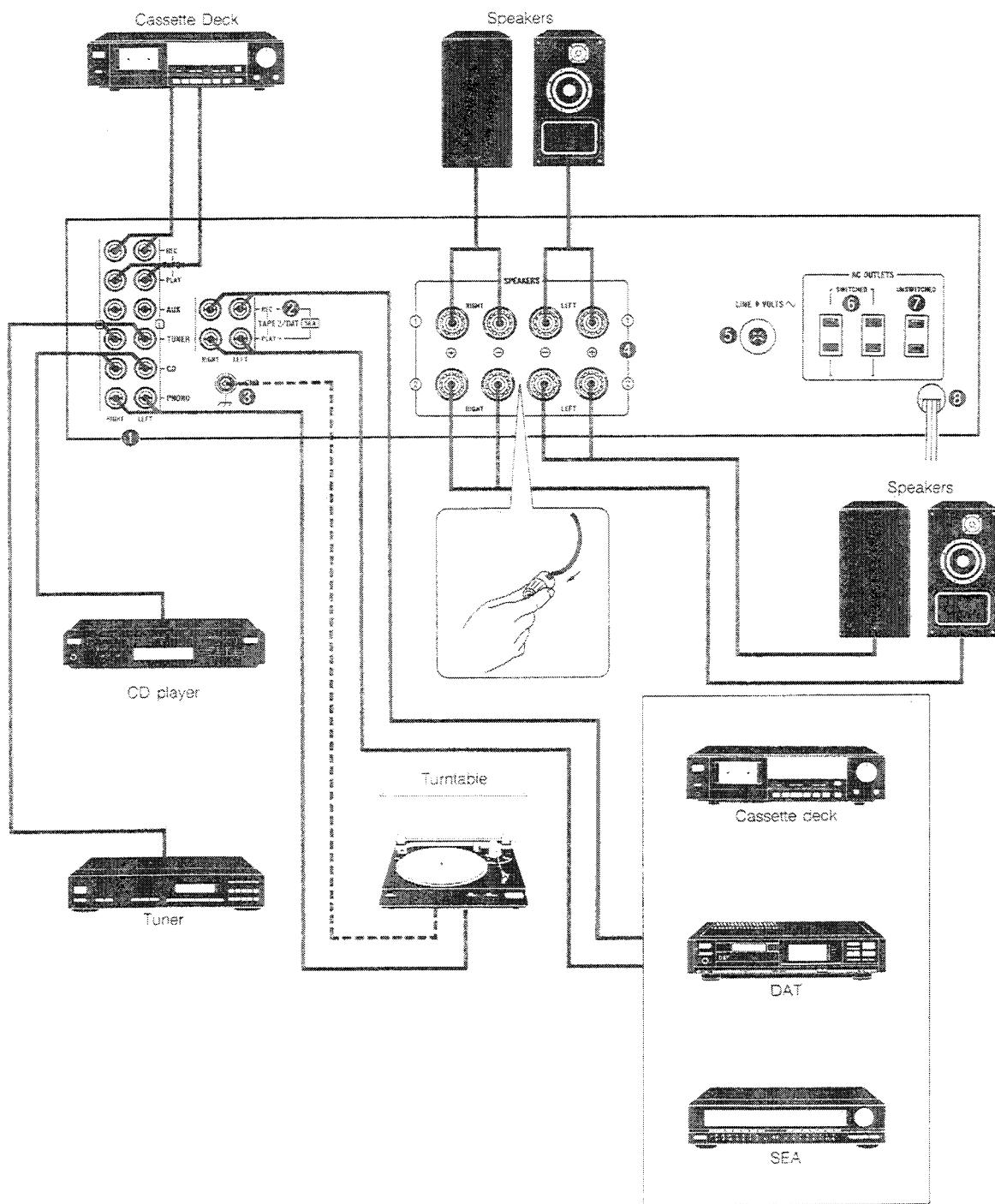
1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services 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 products 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 (Δ) 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 parts 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 parts 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 0.5mA 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.

CONNECTION DIAGRAM



REAR PANEL

- ① TAPE 1, AUX, TUNER, CD and PHONO terminals
- ② TAPE 2/DAT terminals
- ③ GND terminal
If your turntable has a ground lead, connect it to the GND terminal.
- ④ SPEAKERS 1, 2 terminals
- ⑤ AC line voltage selector**
(LINE ↓ VOLTS ~)
Set the voltage selector so that the arrow points to the appropriate voltage.
- ⑥ SWITCHED AC OUTLETS**
- ⑦ UNSWITCHED AC OUTLETS**
** Not provided on units for Continental Europe, the United Kingdom and Australia.
- ⑧ Power cord

Notes:

1. Disconnect the power cord when connecting any component.
2. When connecting components, make the correct left and right channel connections. Reversed channels may degrade the stereo effect.
3. Connect speakers with correct polarity: (+) to (+) and (-) to (-). Reversed polarity will degrade the stereo effect.
4. Connect plugs or wires firmly. Poor contact may result in hum.
5. Do not connect equipment requiring more than the rated power to the AC outlets on the rear panel.
6. Use speakers with the correct impedance. The correct impedance is indicated on the rear panel of the AX-A341TN/AX-A342BK, AX-A441TN/AX-A442BK.
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.
9. An MC or MM cartridge can be used for the turntable connected to the AX-A441TN/AX-A442BK.
10. Do not connect video signals to the terminal of this unit.

BEFORE USE

1. Installation

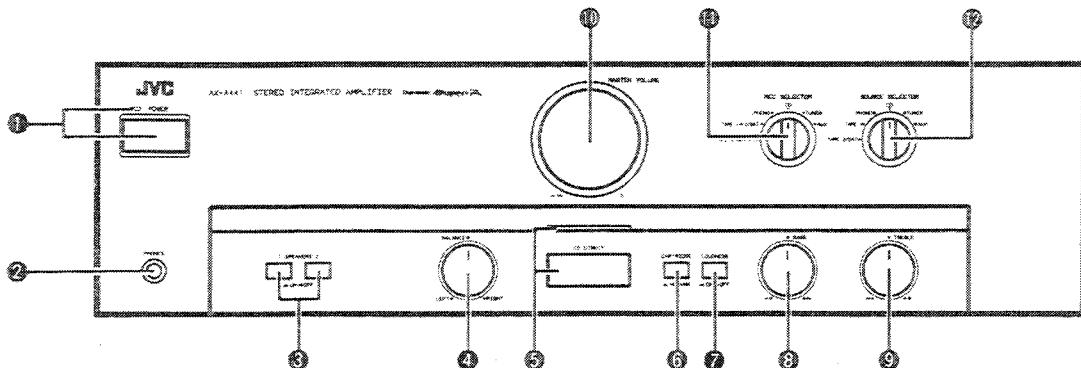
- Select a place which is level, dry and neither too hot nor too cold (between -5°C and 40°C/23°F and 104°F).
- Leave space between the rear of the amplifier and the wall. Good ventilation is needed, especially when the amplifier is driven at high output power. Also, leave space above the top of the amplifier for the same reason when stacking components.
- Do not allow a carpet, etc., to block the ventilation holes.
- Do not set it in a place subject to vibrations.

2. Power cord

- Check that the amplifier is set for your local supply voltage and frequency. If not consult the dealer from whom you bought it.
- When unplugging from the wall outlet, always pull the plug, not the power cord.
- Before plugging the power cord into an AC outlet, check to be sure the individual component are connected correctly.

3. Malfunctions, etc.

- There are no user serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object inside the amplifier.
- Do not allow water to get inside the amplifier.
- Set the volume at minimum, before operation.

FRONT PANEL**① POWER and indicator**

Press this button to turn the power on. To turn the power off, press it again. The indicator lights when the POWER button is pressed to on.

② 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 button to "OFF".

③ SPEAKERS (ON ■ OFF)

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

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.

Please note:

- When CD DIRECT is on the amplifier gives priority to the CD player so that the CD sound is emitted from the speakers or headphones regardless of the source selected by the source selector.
- While the CD DIRECT button is pressed, spinning of the BALANCE knob does not change the reproduced sound.

⑥ CARTRIDGE (AX-A441TN/AX-A442BK only)

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.

⑦ LOUDNESS (▲ ON ■ OFF)

Press this switch ON (▲) to compensate for the ear's different sensitivity to sound at low volumes.

⑧ BASS

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

⑨ TREBLE

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

⑩ MASTER VOLUME

Controls the volume of the speakers and headphones.

⑪ REC SELECTOR

TAPE 2/DAT ▶ 1: Set to this position to dub from TAPE 2 to TAPE 1 or to record DAT onto TAPE 1.

TAPE 1 ▶ 2/DAT: Set to this position to dub from TAPE 1 to TAPE 2 or to record TAPE 1 onto DAT.

PHONO: Set to this position to record PHONO.

CD: Set to this position to record CD.

TUNER: Set to this position to record TUNER.

AUX: Set to this position to record the source connected to the AUX terminals.

⑫ SOURCE SELECTOR

TAPE 2/DAT: Set to this position to listen to TAPE 2/DAT.

TAPE 1: Set to this position to listen to TAPE 1.

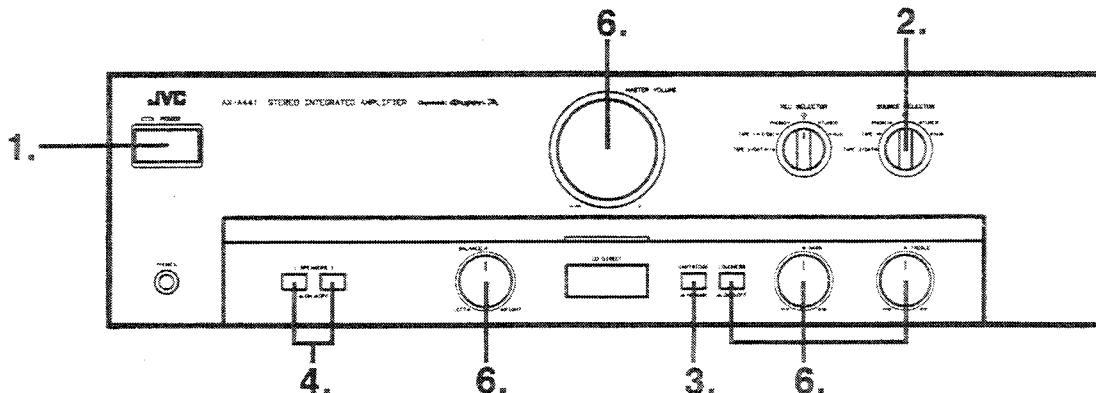
PHONO: Set to this position to listen to PHONO.

CD: Set to this position to listen to CD.

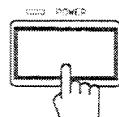
TUNER: Set to this position to listen to TUNER.

AUX: Set to this position to listen to the source connected to the AUX terminals.

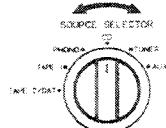
Listening to Sources



- Turn the POWER on and the indicator will light up.



- Adjust the SOURCE SELECTOR to select the source.



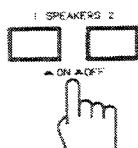
- Set the CARTRIDGE as required. (for PHONO only)



Note:

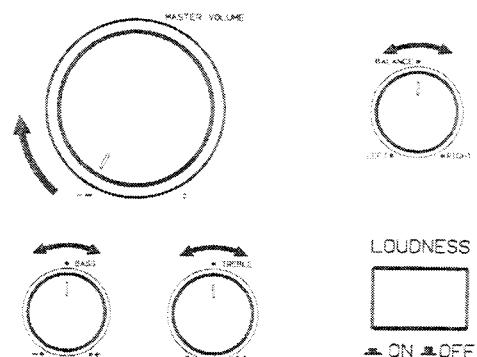
- Unless listening to PHONO, above operation is not necessary.

- Select the speaker system with the SPEAKERS buttons.



- Operate the corresponding equipment according to its instruction manual.

- Adjust the MASTER VOLUME, BALANCE, TREBLE, BASS and LOUDNESS.



- Use of S.E.A. Graphic Equalizer

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-A341TN/AX-A342BK or AX-A441TN/AX-A442BK can be used for connecting the S.E.A. Graphic Equalizer.

Note:

- To tailor the sound using SEA, select desired source by the REC SELECTOR and adjust the SOURCE SELECTOR position to TAPE 2/DAT connected to SEA.

TROUBLESHOOTING

What appears to be a malfunction may not always be serious.
Make sure first . . .

No sound and no light

Is the AC plug connected properly?

Are the connections made correctly?

Are the inter-component connections correct?

No sound from speakers

Are speaker cords connected?

Are the SPEAKERS buttons correctly set?

Is the VOLUME control properly set?

Is your source component correctly set?

Sound from one speaker only

Are speaker cords connected correctly?

Is BALANCE control set to one extreme or the other?

Loud hum during record playing

Is turntable grounded?

Try to change cord path.

Insert the plugs by interchanging their positions.

Howling noise during record playing

Is turntable too close to a speaker?

SPECIFICATIONS

AX-A341TN/AX-A342BK

OVERALL CHARACTERISTICS

Output power:

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

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

55 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.

55 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 55 watts

Intermodulation distortion : 0.007% (60 Hz : 7 kHz = 4 : 1, 8 ohms) at 55 watts

Power band width : 5 Hz — 50 kHz (IHF, 0.05%, 8 ohms both channels driven)

Frequency response : 5 Hz — 100 kHz +0, -3 dB (8 ohms)

Damping factor : 100 (1 kHz, 8 ohms)

Input terminals

Input sensitivity/impedance (1 kHz)

PHONO : 2.5 mV/47 kohms

CD/AUX/TUNER/TAPE 1, 2 : 200 mV/27 kohms

Signal-to-noise ratio

PHONO : 73 dB ('66 IHF)

CD/AUX/TUNER/TAPE 1, 2 : 110 dB ('66 IHF)

PHONO : 69 dB (DIN)

CD/AUX/TUNER/TAPE 1, 2 : 74 dB (DIN)

Tone controls : TREBLE: ±8 ±1 dB (at 10 kHz)

BASS: ±8 ±1 dB (at 100 Hz)

: +6 dB (at 100 Hz), +4 dB (at 10 kHz)

EQUALIZER

PHONO overload capacity

(PHONO to TAPE 2 REC) : 100 mV (0.02% THD)

PHONO RIAA deviation

: ±0.3 dB (20 Hz — 20 kHz)

Recording output

Output level/impedance

TAPE 1, 2, REC : 200 mV/800 ohms

GENERAL

Dimensions

: 435 (W) x 127 (H) x 306 (D) mm

(17-3/16" x 5" x 12-1/16")

Weight

: 7.2 kg (15.9 lbs.)

Design and specifications subject to change without notice.

AX-A441TN/AX-A442BK

OVERALL CHARACTERISTICS

Output power:

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

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

65 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.

65 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 65 watts

Intermodulation distortion : 0.007% (60 Hz : 7 kHz = 4 : 1, 8 ohms) at 65 watts

Power band width : 5 Hz — 50 kHz (IHF, 0.05%, 8 ohms both channels driven)

Frequency response : 5 Hz — 100 kHz +0, -3 dB (8 ohms)

Damping factor : 100 (1 kHz, 8 ohms)

Input terminals

Input sensitivity/impedance (1 kHz)

PHONO (MM) : 2.5 mV/47 kohms

PHONO (MC) : 200 µV/100 ohms

CD/AUX/TUNER/TAPE 1, 2 : 200 mV/27 kohms

Signal-to-noise ratio

PHONO (MM) : 85 dB ('66 IHF)

PHONO (MC) : 67 dB ('66 IHF)

CD/AUX/TUNER/TAPE 1, 2 : 110 dB ('66 IHF)

PHONO (MM) : 69 dB (DIN)

CD/AUX/TUNER/TAPE 1, 2 : 74 dB (DIN)

Tone controls

: TREBLE: ±8 ±1 dB (at 10 kHz)

BASS: ±8 ±1 dB (at 100 Hz)

: +6 dB (at 100 Hz), +4 dB (at 10 kHz)

Loudness controls

(Volume control at

-30 dB position)

EQUALIZER

PHONO overload capacity (PHONO to TAPE 2 REC)

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 1, 2, REC : 200 mV/800 ohms

GENERAL

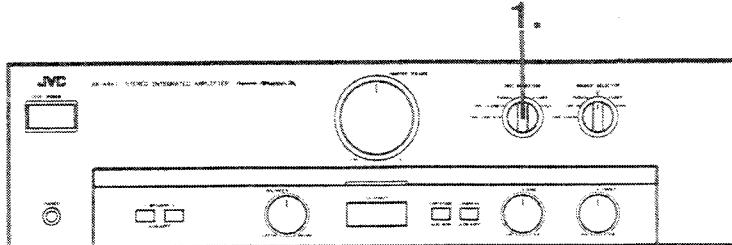
Dimensions : 435 (W) x 127 (H) x 306 (D) mm

(17-3/16" x 5" x 12-1/16")

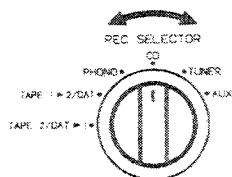
Weight : 7.5 kg (16.6 lbs.)

Design and specifications subject to change without notice.

Recording Tapes



- Set the REC SELECTOR as desired.



- Play the source according to its instruction manual.

- Operate the tape deck for recording.

Notes:

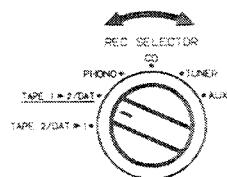
- To listen to another source while recording, select desired source by the SOURCE SELECTOR.
- If your tape deck is 3-head type, you can monitor the sound being recorded. In this case, adjust the SOURCE SELECTOR position to TAPE 1 or TAPE 2/DAT connected to tape deck.

Tape Dubbing

Dubbing between TAPE 1 and TAPE 2 is carried out as follows:

— To record from TAPE 1 to TAPE 2 —

- Set the REC SELECTOR to TAPE 1 > 2/DAT.



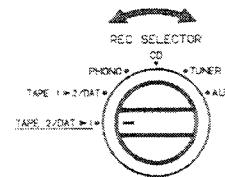
- Play back the deck TAPE 1 and operate the deck TAPE 2 for recording.

Note:

- To monitor the recorded sound, connect 3 head-deck to TAPE 2/DAT terminal and set the source selector to TAPE 2.

— To record from TAPE 2 to TAPE 1 —

- Set the REC SELECTOR to TAPE 2/DAT > 1.



- Play back the deck TAPE 2 and operate the deck TAPE 1 for recording.

Note:

- To monitor the recorded sound, connect 3 head-deck to TAPE 1 terminal and set the source selector to TAPE 1.

Disassembly Procedures

(1) Removing the Top Cover

1. Remove the 4 screws fastening both sides of the Top Cover, and the 2 screws fastening the rear sides.
2. Remove the Top Cover.

(2) Removing the Bottom Cover

1. Remove the 18 screws \odot . (Fig 2)
2. Remove the Bottom Cover.

(3) Removing the Front Panel

1. Remove the top cover.
2. Remove the 3 screws \odot and 3 plastic rivets \odot . (Fig 1,2)
3. Pull out the main volume knob.

(4) Removing the Power Transistor

1. Remove the top cover and the bottom plate.
2. Unsolder the defective power transistor.
3. Remove the screw holding the power transistor using a pair of pliers, a wrench or a bent screwdriver

(5) Removing / Installing the flexible wire of remote switch

1. Set the SOURCE SELECTOR knob (REC SELECTOR knob) to AUX position when removing.
2. Insert the tip of the driver into the openings in the switch.(Fig 3)
3. Move the driver down so that the claws of the switch open.
4. After opening both claws , lift the mold portion.
**Note : Be most careful when handling the flexible wire.
Do not bend it sharply or twist it .**
5. Set the SOURCE SELECTOR knob (REC SELECTOR knob) to AUX position of switch to \odot (or \odot) direction , then install the mold portion .

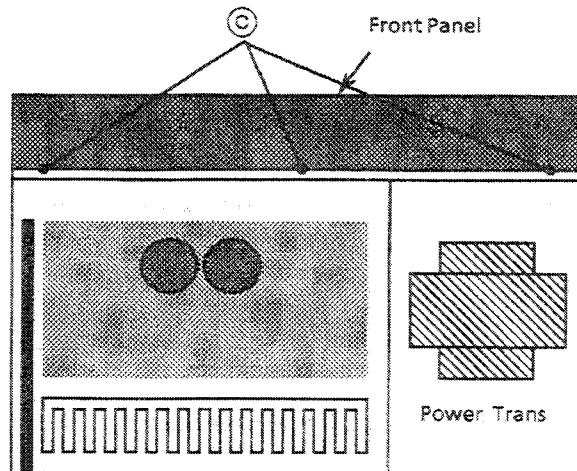


Fig 1. Top View

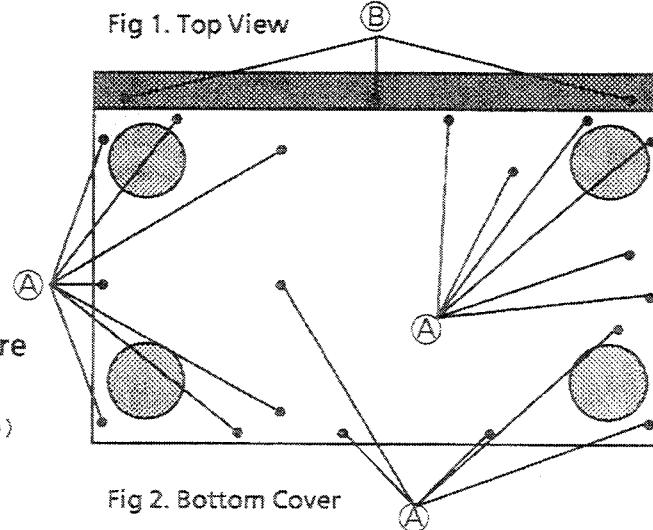


Fig 2. Bottom Cover

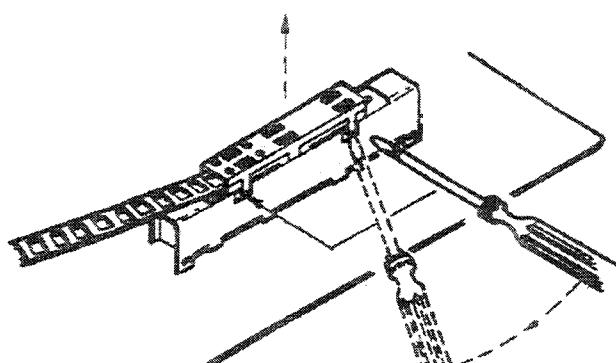


Fig 3. Removing the flexible wire of remote switch.

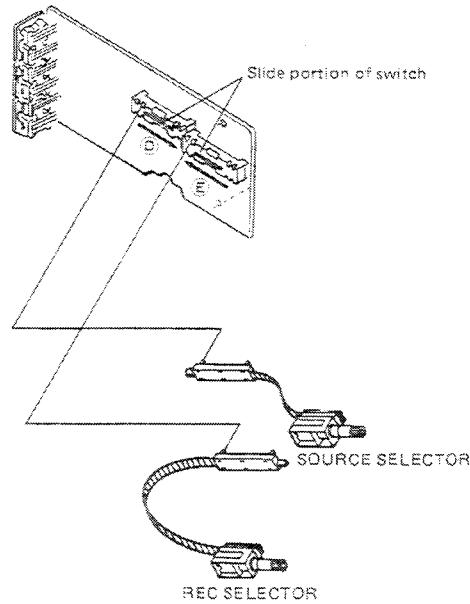


Fig 4 . Installing the flexible wire of remote switch.

POWER SPECIFICATIONS

Area	Line Voltage & Frequency	Power Consumption	
		AX-A341TN/AX-A342BK	AX-A441TN/AX-A442BK
U.K.	AC 240 V ~, 50 Hz	250 watts	610 watts
Australia	AC 230 V ~, 50 Hz	240 watts	250 watts
Continental Europe	AC 110 / 127 / 220 / 240 V ~ selectable, 50/60 Hz	230 watts	270 watts
Other areas	AC 110 / 127 / 220 / 240 V ~ selectable, 50/60 Hz	230 watts	270 watts

SPANNUNGSVERSORGUNG UND LEISTUNGSAUFGNAHME

Länder	Netzspannung und Frequenz	Leistungsaufnahme	
		AX-A341TN/AX-A342BK	AX-A441TN/AX-A442BK
Großbritannien	240 V ~, 50 Hz	250 Watt	610 Watt
Australie	230 V ~, 50 Hz	240 Watt	250 Watt
Kontinental-Europa	230 V ~, 50 Hz	230 Watt	270 Watt
Andere Länder	umschaltbar 110 / 127 / 220 / 240 V ~ 50/60 Hz	230 Watt	270 Watt

CARACTERISTIQUES TECHNIQUES D'ALIMENTATION

Pays	Tension d'alimentation et fréquence	Consommation	
		AX-A341TN/AX-A342BK	AX-A441TN/AX-A442BK
Royaume-Uni	CA 240 V ~, 50 Hz	250 watts	610 watts
Australie	CA 230 V ~, 50 Hz	240 watts	250 watts
Europe Continentale	CA 110 / 127 / 220 / 240 V ~, commutable, 50/60 Hz	230 watts	270 watts
Autres Pays	CA 110 / 127 / 220 / 240 V ~, commutable, 50/60 Hz	230 watts	270 watts

SPANNINGSVEREISTEN

Gebieden	Netspanning en frekventie	Stroomverbruik	
		AX-A341TN/AX-A342BK	AX-A441TN/AX-A442BK
Engeland	Net 240 V ~ 50 Hz	250 Watt	610 Watt
Australië	Net 230 V ~ 50 Hz	240 Watt	250 Watt
Europese vasteland	Net 110 / 127 / 220 / 240 V ~ instelbaar, 50/60 Hz	230 Watt	270 Watt
Andere gebieden	Net 110 / 127 / 220 / 240 V ~ instelbaar, 50/60 Hz	230 Watt	270 Watt

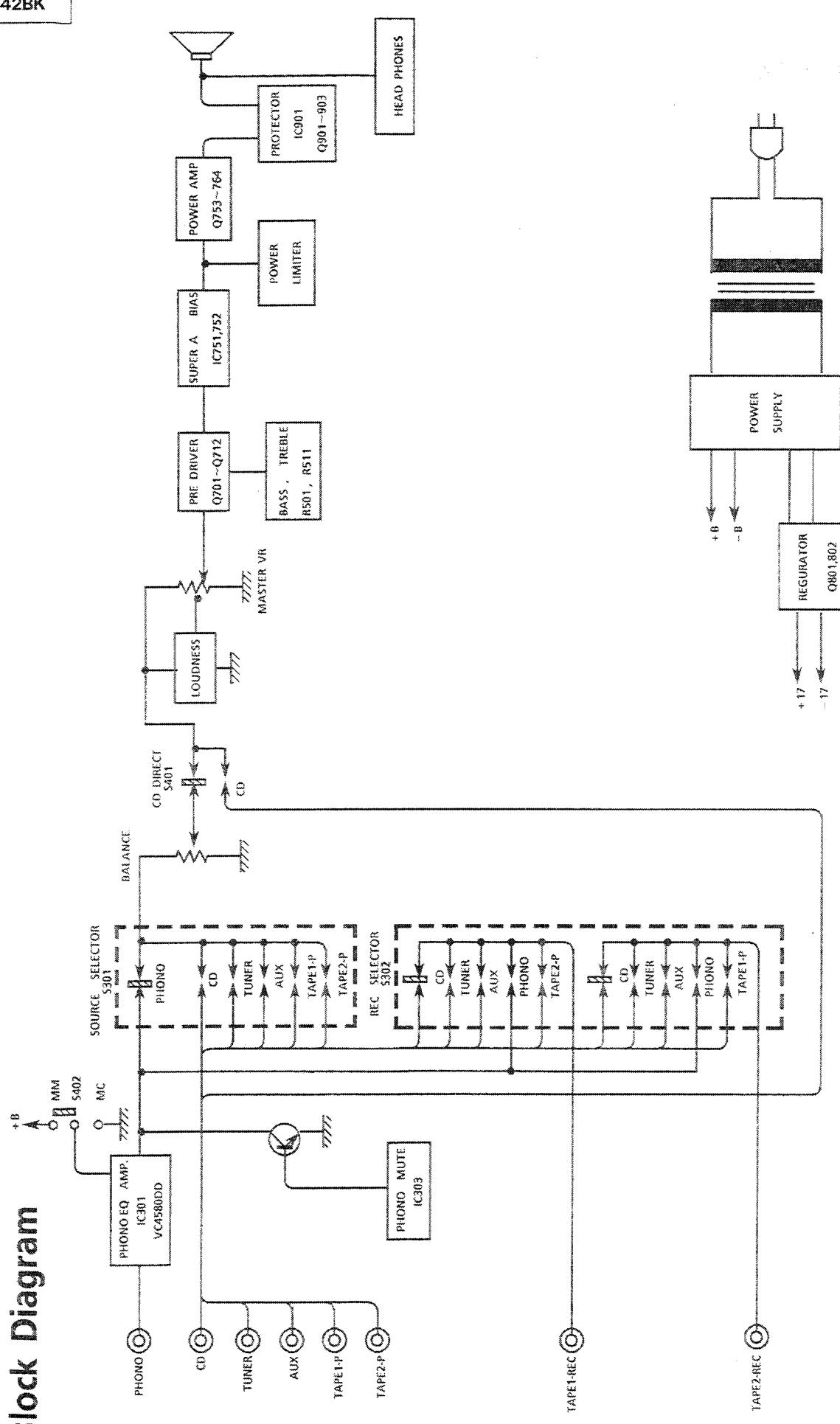
ESPECIFICACIONES DE ALIMENTACION

Países	Voltaje y frecuencia	Consumo	
		AX-A341TN/AX-A342BK	AX-A441TN/AX-A442BK
Reino Unido	AC 240 V ~, 50 Hz	250 vatios	610 vatios
Australia	AC 230 V ~, 50 Hz	240 vatios	250 vatios
Europa Continental	AC 110 / 127 / 220 / 240 V ~ seleccionable, 50/60 Hz	230 vatios	270 vatios

STRÖMFÖRSÖRJNING

Områden	Nätspänning & frekvens	Effektförbrukning	
		AX-A341TN/AX-A342BK	AX-A441TN/AX-A442BK
Storbritannien	~240 V, 50 Hz	250 Watt	610 Watt
Australien	~230 V, 50 Hz	240 Watt	250 Watt
Kontinentaleuropa	~230 V, 50 Hz	230 Watt	270 Watt
Övriga länder	~110 / 127 / 220 / 240 V (omkopplingsbart), 50/60 Hz	230 Watt	270 Watt

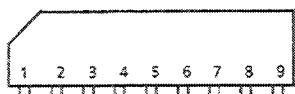
Block Diagram



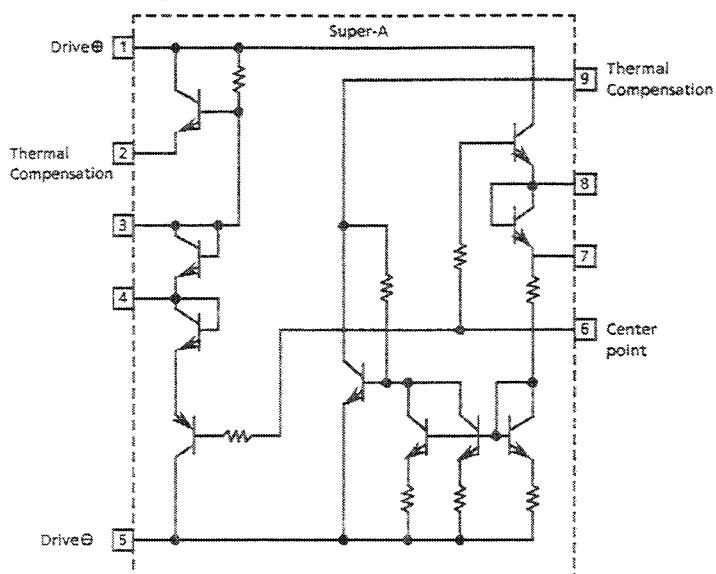
Internal Block Diagrams of ICs

■ VC5022 (IC751,752) : SUPER- A

(1) Terminal Layout

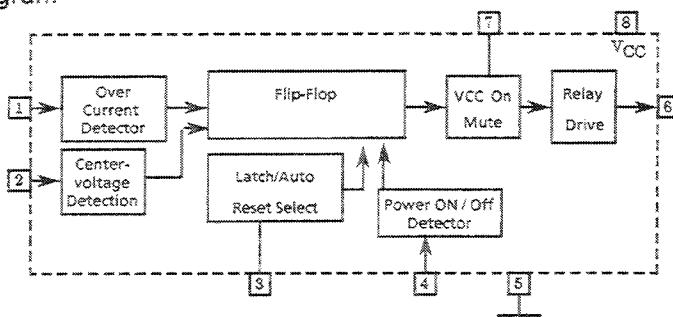


(2) Block Diagram

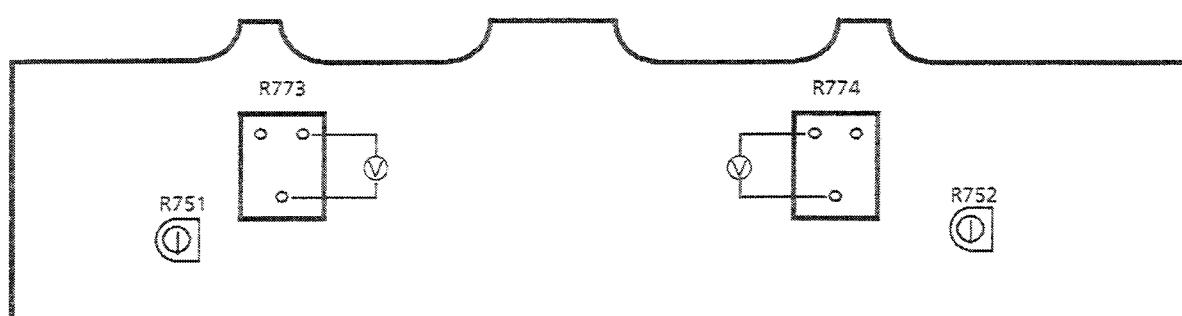


■ μ PC1237HA(IC303,901) : Protector, Relay Driver

(1) Block Diagram



Power Amplifier Adjustment Procedures

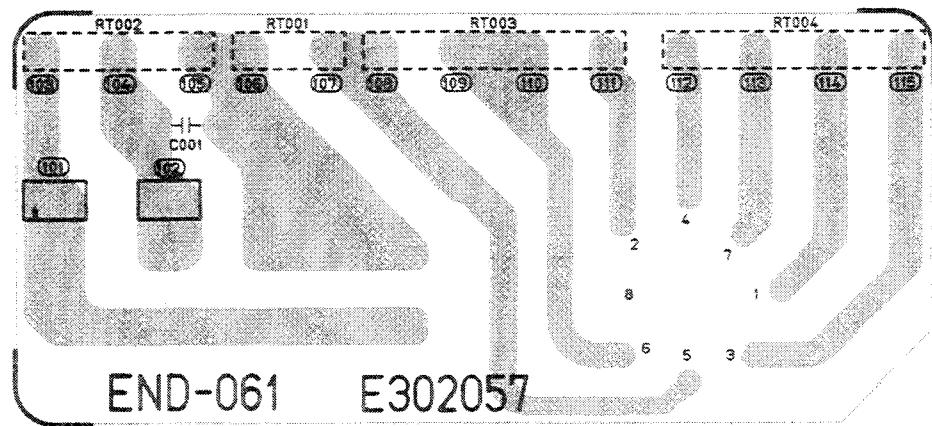


■ Idling Current

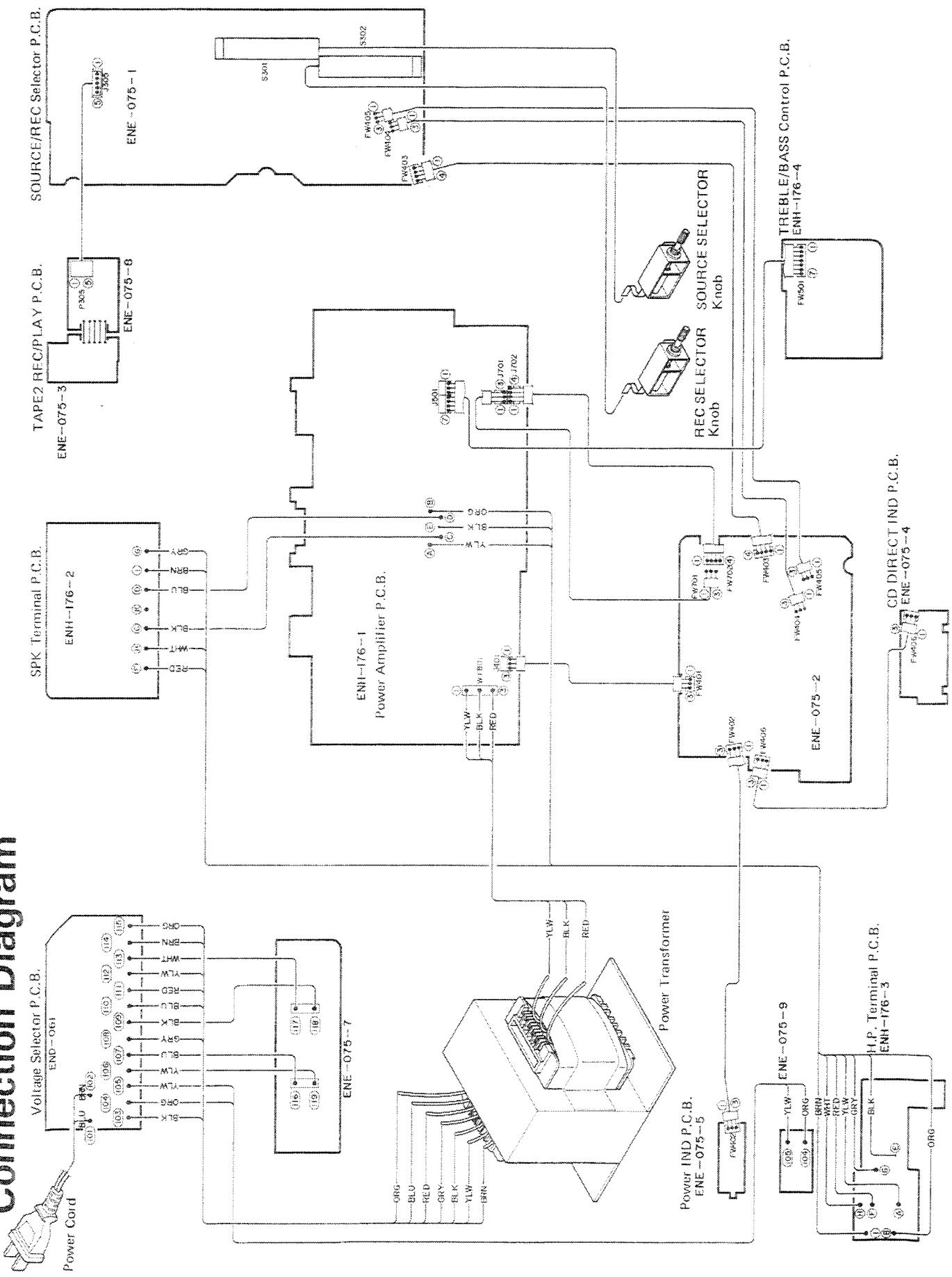
- (1) Set the volume control to minimum during this adjustment.
- (2) Turn R751 and R752 fully counterclockwise before the power switch on.
- (3) Always start from cold, and allow 10 minutes to warm up before adjustment. If the heatsink is already warm from previous use the correct adjustment can not be made.
- (5) Connect a DC voltmeter to R773 resistor's leads for left channel, or to R774 for right channel.
- (6) Adjust R751 for left channel, or 752 for right channel, so that the DC voltmeter becomes $7mV \sim 15mV$

Printed Circuit Boards

■ Voltage Selector P.C.B (END-061)

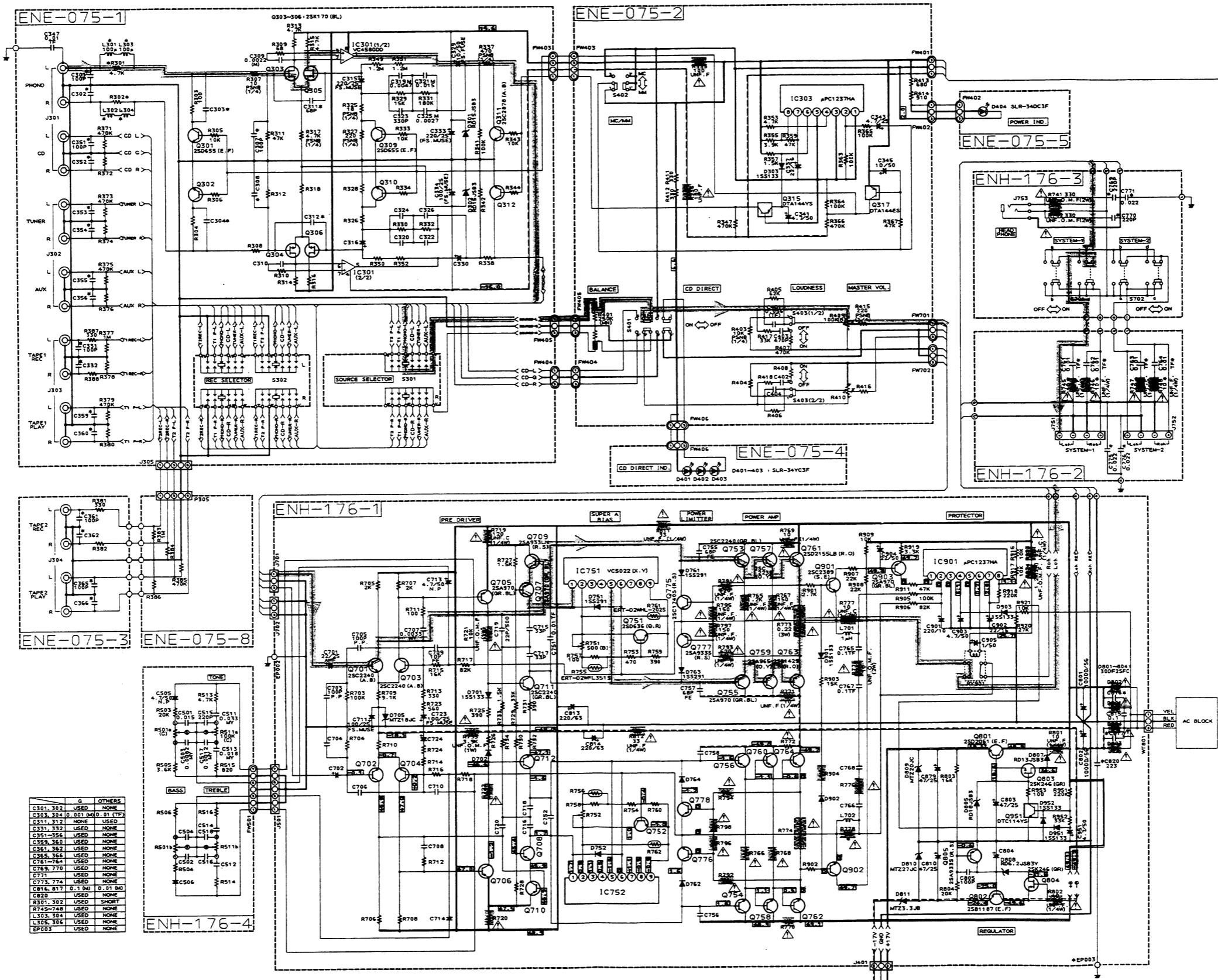


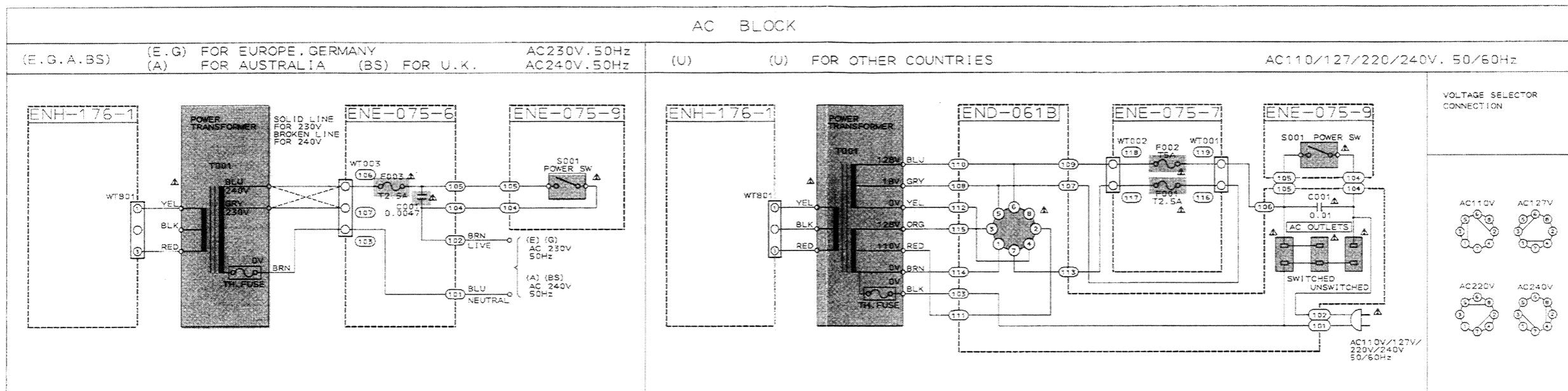
Connection Diagram



AX-A441TN
AX-A442BK

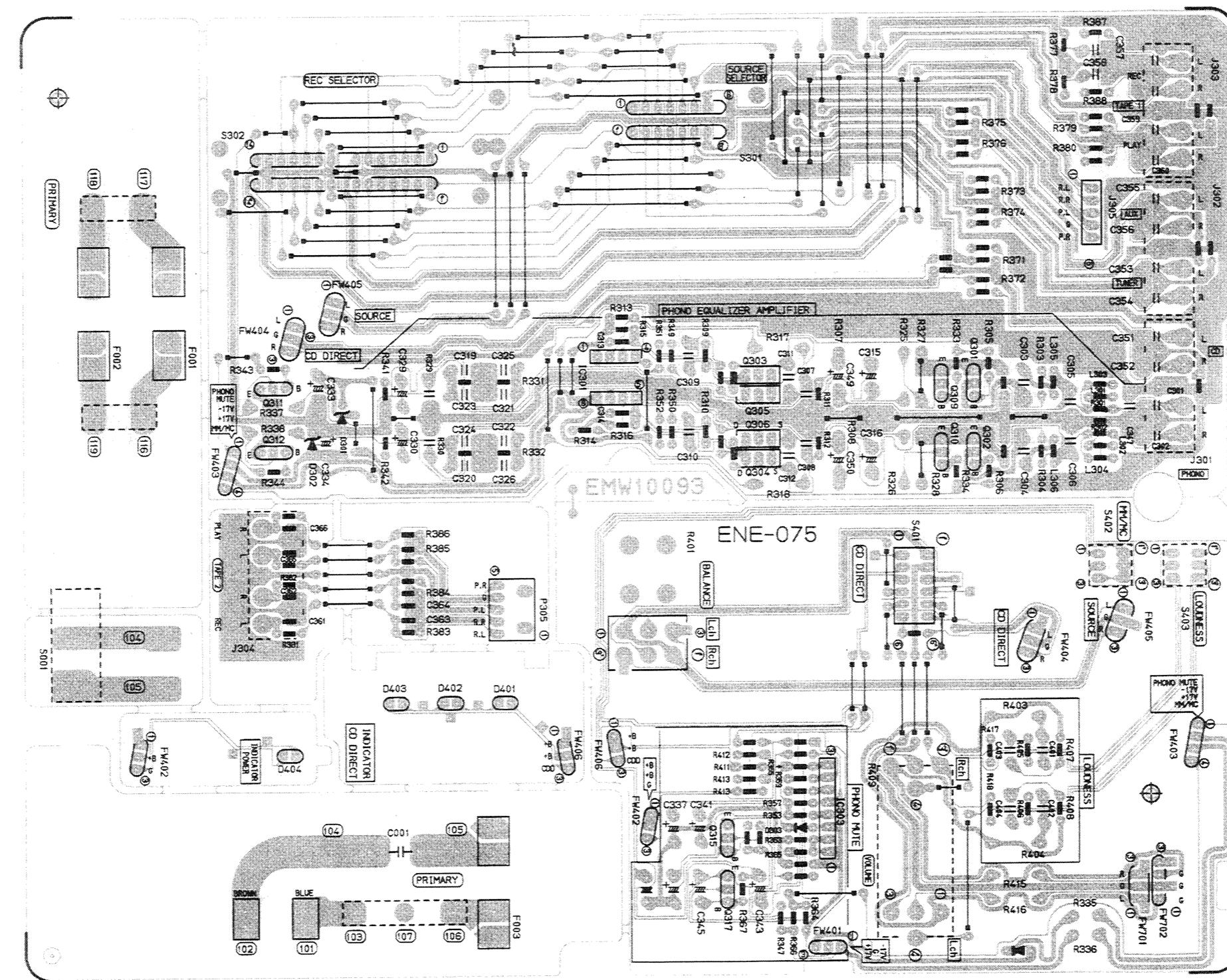
Schematic Diagrams



AX-A441TN
AX-A442BKAX-A441TN
AX-A442BK**Notes:**

1. — indicates +B power supply.
2. --- indicates -B power supply.
3. ■ indicates signal path.
4. □ shows voltage.
5. When replacing the parts in the darkened area (■) and those marked with △, be sure to use the designated parts to ensure safety.
This is the standard circuit diagram.
6. The design and contents are subject to change without notice.

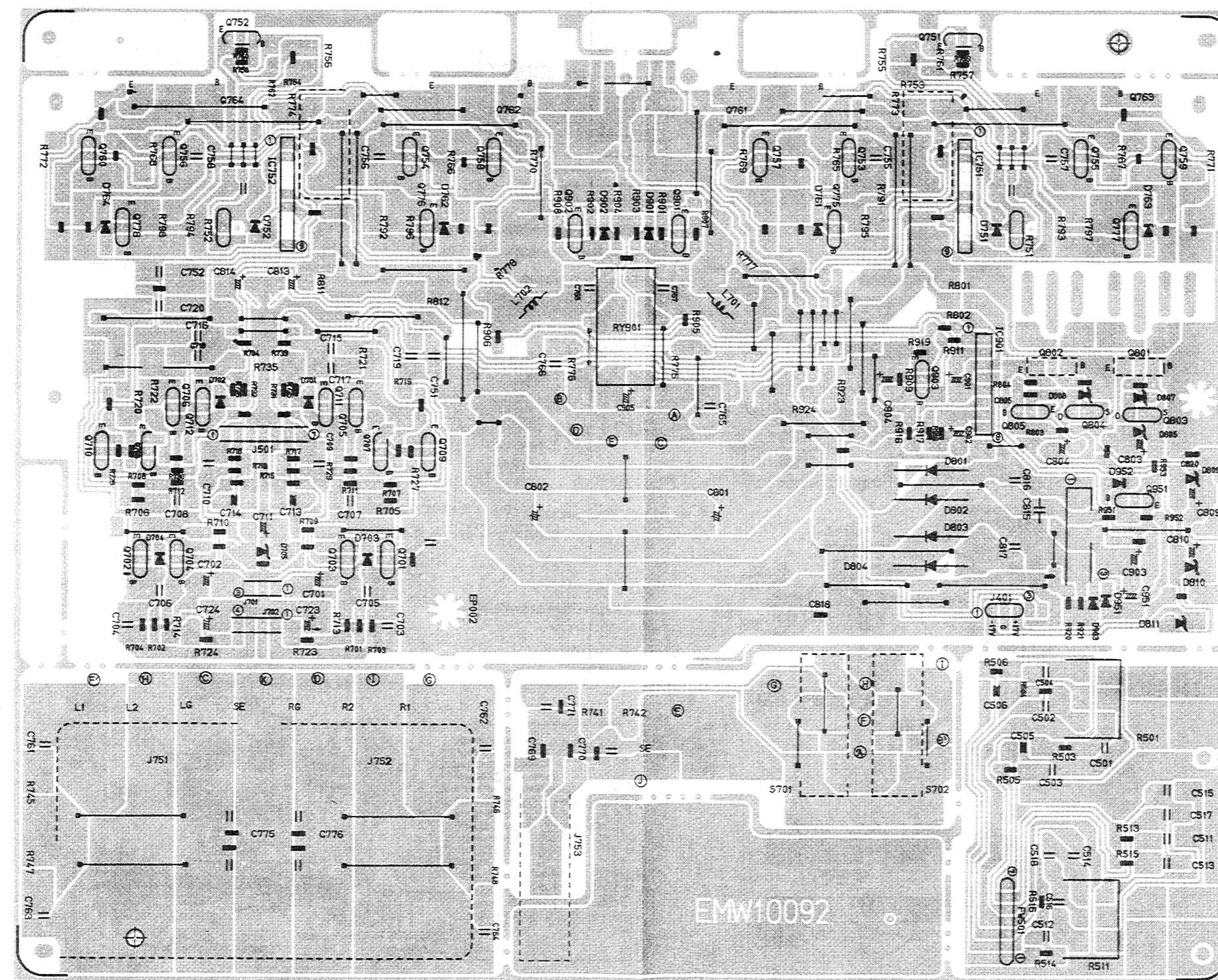
■ Source Selector & Power Primary P.C.B (ENE-075)



AX-A441TN
AX-A442BK

AX-A441TN
AX-A442BK

■ Power Amp P.C.B (ENH-176)



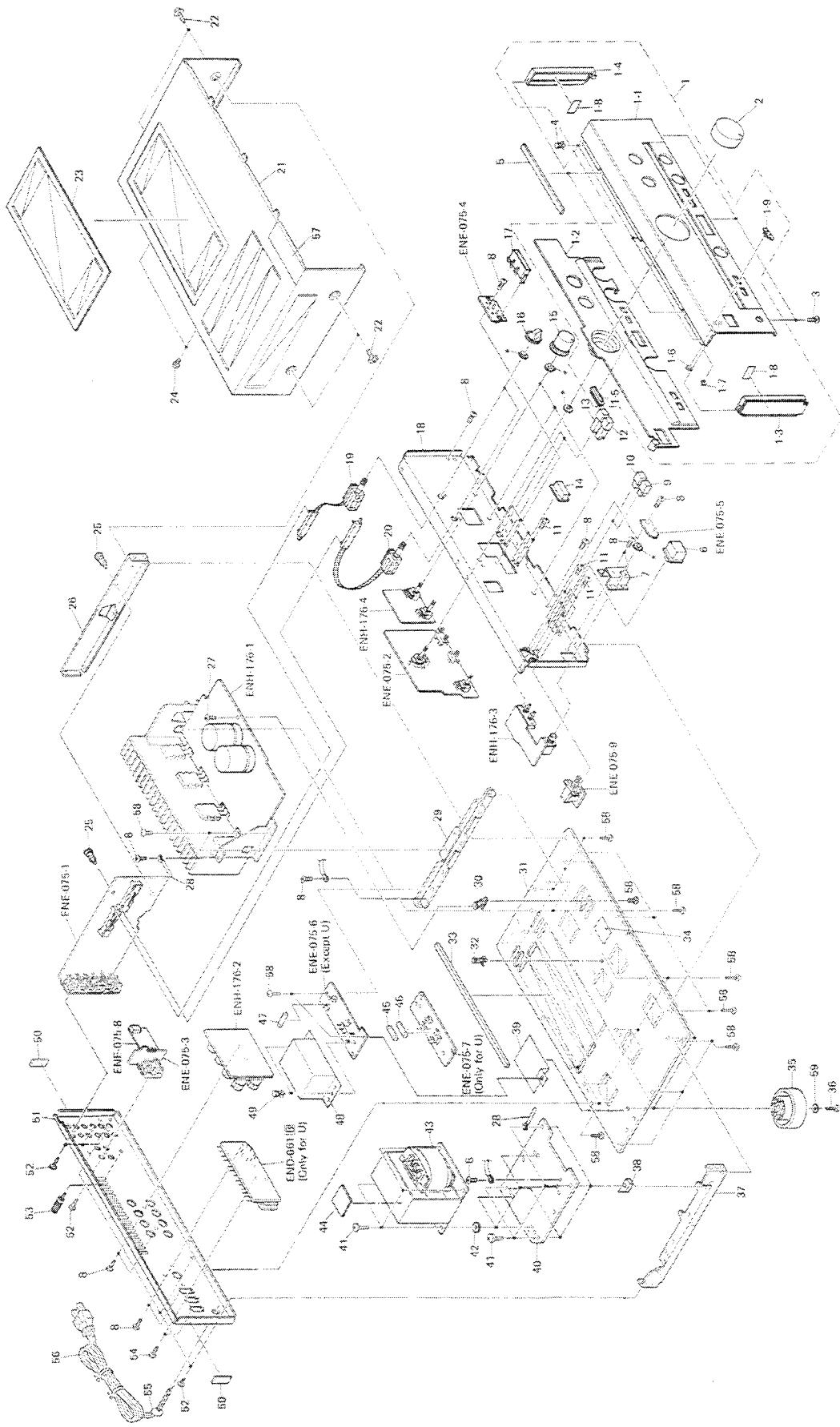
ENH-176

PARTS LIST

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■ ENE-075 <input type="checkbox"/> Source Selector PC Board Ass'y	2-8
■ END-061 <input checked="" type="checkbox"/> Voltage Selector PC Board Ass'y	2-10
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General Exploded View and Parts List



* mark indicates attached part.

■ AX-A441TN Parts List

⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
	1 1-1 1-2 1-3 1-4	EFP-AXA441TNE E207078-001 E102418-001 E307424-001 E307424-002	Front Panel Ass'y Front Panel Front Base Side Fitting Side Fitting	1 1 1 1 1	Left Right	
	1-5 1-6 1-7 1-8 1-9	E406486-001 E60912-003 E75934-002 EXO020010R15S13 E72968-001	Indicator Speed Nut Indicator Spacer JVC Mark	1 1 1 2 1	CD Direct Stand BY.	
	2 3 4 5 6	E307425-001 SBSG3006M E48729-009 EXO170005N35S02 E406481-001	Volume Knob Screw Plastic Rivet Felt Spacer Power Button	1 3 3 2 1		
	7 8 9 10	E75183-001 SBSG3008CC SBSG3008CC E406482-002 E406482-001	Head Phone Bracket Screw Screw Push Button Push Button	1 12 14 1 1	Except G, U G, U	
	11 12 13 14 15	SBST3006CC E406483-001 E406483-002 E406484-001 E75527-006	Screw Push Button Push Button Push Button Knob	8 1 1 1 3	Cartridge Loudness CD Direct Tone	
	16 17 18 19 20	E406485-001 E307426-001 E102419-001 QR2B16-E03 QR2B19-E04	Knob LED Holder Front Bracket Rotary Switch Rotary Switch	2 1 1 1 1	Source Source Select Rec Select	
	21 22 23 24	E206801-002 E26753-002 E61660-004 E306233-002 SBSG3008M	Metal Cover Metal Cover Special Screw Protect Sheet Screw	1 1 4 1 2	A, G E, EF, U, BS E, EF, U, BS	
	25 26 27 28 29	E303216-006 E305811-002 E74266-002 E72018-001 E305812-002	Fastener Side Bracket Special Screw Wire Clamp Center Bracket	2 1 1 2 1	Right	
	30 31 32 33 34	E68587-008 E26273-003 E306816-001 EXO255005N60S02 E70115-002	Bracket Bottom Cover Fastener Spacer Caution Label	1 1 1 1 1		
	35 36 37 38 39	E307427-001 SBST3008Z E305810-001 E406309-001 E406626-001	Foot Ass'y Screw Side Bracket Spacer Protect Sheet	4 4 1 4 1	Left	
⚠ ⚠	40 41 42 43	E305803-005 E61661-004 E73968-002 ETP1150-39EB ETP1150-39EBBS	Trans Bracket Special Screw Spacer Power Transformer Power Transformer	1 8 4 1 1	T001 T001	A, E, EF, G BS
⚠ ⚠ ⚠ ⚠	44 45 46 47	ETP1150-39FA EXO060050N40S02 QMF51A2-2R5S QMF51A2-5R0S QMF51A2-2R5S	Power Transformer Spacer Fuse Fuse Fuse	1 1 1 1 1	T001 for Transformer F001 F002 F003	U U U A, E, EF, G
⚠	48 49 50 51	QMF51E2-2R5SBS E307503-001 E48729-008 EXO020010R10S10 E26334-013	Fuse Protect Cover Plastic Rivet Spacer Rear Panel	1 1 2 2 1	F003	BS A, E, EF, G, BS A, E, EF, G, BS U

⚠: Safety Parts

⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
	— 52 53	E26334-014 E303260-229 E73273-003 E73273-003 E70078-003	Rear Panel Rating Label Special Screw Special Screw GND. Terminal	1 1 9 2 1		Except U E, EF, G Except U U
⚠ ⚠ ⚠ ⚠	54 55 56	SDSG3008CC QHS3876-162 QHS3876-162S QMP2560-244 QMP3900-200	Screw Cord Stopper Cord Stopper Power Cord Power Cord	2 1 1 1 1		U Except BS BS A E, EF, G
⚠ ⚠	57 58 59	QMP7520-200 QMP9017-008BS E67000-005 GBSG3008CC WNS3000CC	Power Cord Power Cord Caution Label Screw Washer	1 1 1 22 4		U BS
	— — —	E61029-005 E70028-001 E74792-086	Number Label Approval Label FTZ Label	1 1 1		U, A, BS E G

⚠: Safety Parts

The Marks Designated Areas

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

■ AX-A442BK Parts List

Please refer to AX-A441TN parts list except following parts.

⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
	1 1-1 1-2 1-3 1-4	EFP-AXA442BKE E207078-002 E102418-002 E307424-003 E307424-004	Front Panel Ass'y Front Panel Front Base Side Fitting Side Fitting	1 1 1 1 1	Left Right	
	2 6 9 10 12	E307425-002 E406481-002 E406482-004 E406482-003 E406483-003	Volume Knob Power Button Push Button Push Button Push Button	1 1 1 1 1	SPK-2 SPK-1 Cartridge	
	13 14 15 16 21	E406483-004 E406484-002 E75527-004 E406485-002 E206801-001	Push Button Push Button Knob Knob Metal Cover	1 1 3 2 1	Loudness CD Direct Tone Source A, G	
	35 51	E26753-001 E307427-002 E26334-015 E26334-016 — E303260-230	Metal Cover Foot Ass'y Rear Panel Rear Panel Rating Label	1 4 1 1 1	U Except U E, EF, G	E, EF, U, BS
	—	E74792-087	FTZ Label	1		G

⚠: Safety Parts

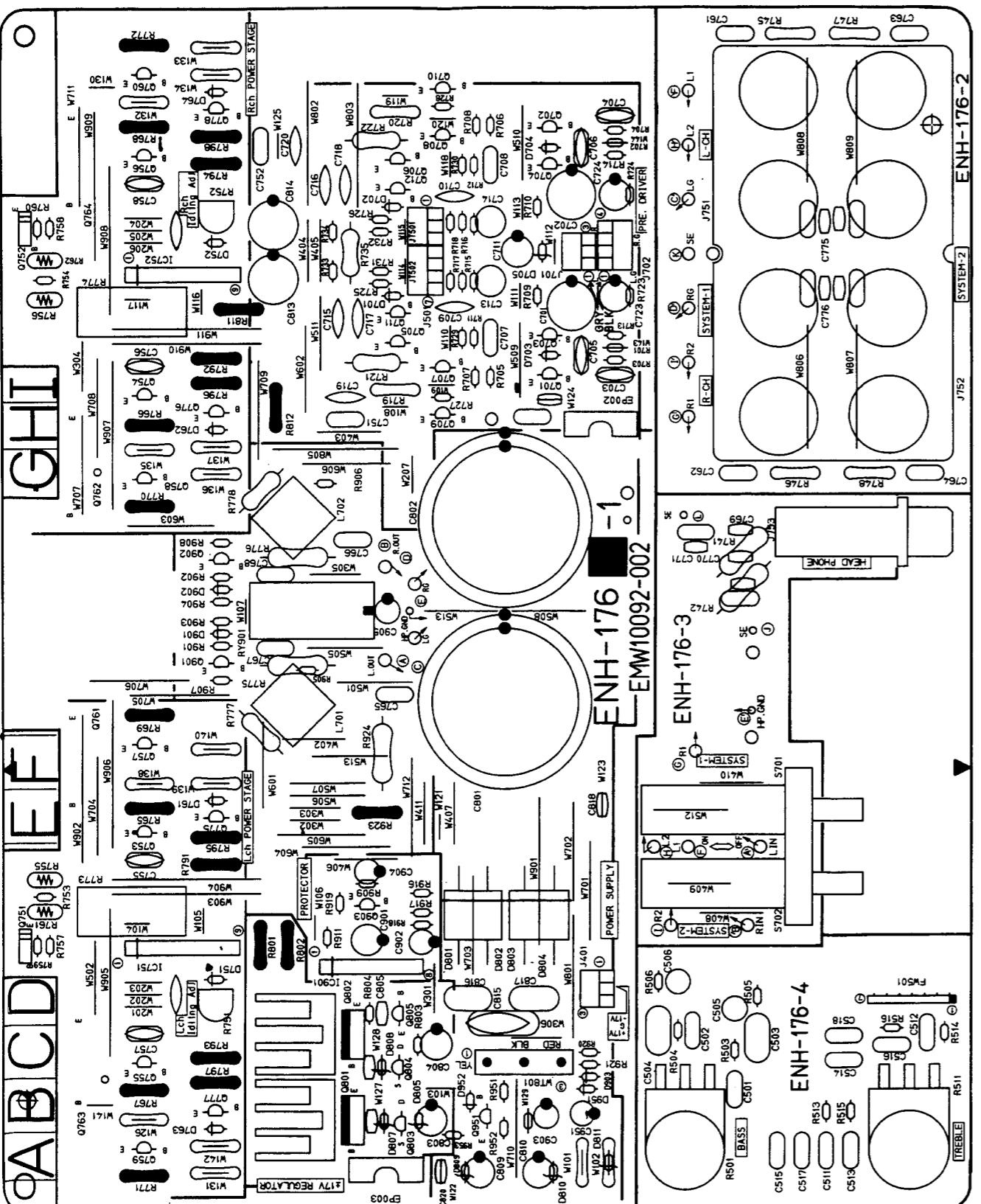
The Marks Designated Areas

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

Printed Circuit Board Ass'y and Parts List

■ ENH-176 □ Power Amplifier PC Board Ass'y

Note : ENH-176 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENH-176 [E]	Other Countries
ENH-176 [F]	Australia, Continental Europe
ENH-176 [G]	Germany
ENH-176 [H]	the U.K.

Diodes

ITEM	PART NUMBER	DESCRIPTION	AREA
D808	RD6-2JSB3	ZENER NEC	
D809	MTZ20JC	ZENER ROHM	
D810	MTZ27JC	ZENER ROHM	
D811	MTZ3.3JB	ZENER ROHM	
D901	ISS133	SILICON ROHM	
D902	ISS133	SILICON ROHM	
D903	ISS133	SILICON ROHM	
D951	ISS133	SILICON ROHM	
D952	ISS133	SILICON ROHM	

△ : SAFETY PARTS

Transistors

ITEM	PART NUMBER	DESCRIPTION	AREA
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	2SC2240(GR-BL)	SILICON TOSHIBA	
Q753	2SC2240(GR-BL)	SILICON TOSHIBA	
Q754	2SC2240(GR-BL)	SILICON TOSHIBA	
Q755	2SA970(GR-BL)	SILICON TOSHIBA	
Q756	2SA970(GR-BL)	SILICON TOSHIBA	
Q757	2SC2235(Q,Y)	SILICON TOSHIBA	
Q758	2SC2235(Q,Y)	SILICON TOSHIBA	
Q759	2SA965(Q,Y)	SILICON TOSHIBA	
Q760	2SA965(Q,Y)	SILICON TOSHIBA	
Q761	2SD2155LB(R-O)	SILICON TOSHIBA	
Q762	2SD2155LB(R-O)	SILICON TOSHIBA	
Q763	2SB1429LB(R-O)	SILICON TOSHIBA	
Q764	2SB1429LB(R-O)	SILICON TOSHIBA	
Q775	2SC1740S(R-S)	SILICON ROHM	
Q776	2SC1740S(R-S)	SILICON ROHM	
Q777	2SA933S(R-S)	SILICON ROHM	
Q778	2SA933S(R-S)	SILICON ROHM	
Q801	2SD2061(E,F)	SILICON ROHM	
Q802	2SB1187(E,F)	SILICON ROHM	
Q803	2SK246(GR)	F.E.T. TOSHIBA	
Q804	2SK246(GR)	F.E.T. TOSHIBA	
Q805	2SA933S(R-E)	SILICON ROHM	
Q901	2SC2389(S-E)	SILICON ROHM	
Q902	2SC2389(S-E)	SILICON ROHM	
Q903	2SA970(GR-BL)	SILICON TOSHIBA	
Q951	DTC114YS	SILICON ROHM	

△ : SAFETY PARTS

I.C.s

ITEM	PART NUMBER	DESCRIPTION	AREA
IC751	VC5022(X,Y)	I.C. ROHM	
IC752	VC5022(X,Y)	I.C. ROHM	
IC901	UPC1237HA	I.C. NEC	

△ : SAFETY PARTS

Diodes

ITEM	PART NUMBER	DESCRIPTION	AREA
D701	ISS133	SILICON ROHM	
D702	ISS133	SILICON ROHM	
D705	MTZ18JC	ZENER ROHM	
D751	ISS291	SILICON ROHM	
D752	ISS291	SILICON ROHM	
D761	ISS291	SILICON ROHM	
D762	ISS291	SILICON ROHM	
D763	ISS291	SILICON ROHM	
D764	ISS291	SILICON NICHONINTER	
D801	3ODF2SFC	SILICON NICHONINTER	
D802	3ODF2SFC	SILICON NICHONINTER	
D804	3ODF2SFC	SILICON NICHONINTER	
D805	RD18JSB3	ZENER NEC	
D807	RD13JSB3	ZENER NEC	

△ : SAFETY PARTS

Resistors

△	ITEM	PART NUMBER	DESCRIPTION	AREA
R501	QVD887C-E15B	100K	VARIABLE	
R503	GRD167J-203	20K	1/6W CARBON	
R504	GRD167J-203	20K	1/6W CARBON	
R505	GRD167J-362	3.6K	1/6W CARBON	
R506	GRD167J-362	3.6K	1/6W CARBON	
R511	QVD887C-E15B	100K	VARIABLE	
R513	GRD167J-472	4.7K	1/6W CARBON	
R514	GRD167J-472	4.7K	1/6W CARBON	
R515	GRD167J-323	820	1/6W CARBON	
R516	GRD167J-321	820	1/6W CARBON	
R703	GRD167J-104	100K	1/6W CARBON	
R704	GRD167J-104	100K	1/6W CARBON	
R705	GRD167J-202	20K	1/6W CARBON	
R706	GRD167J-202	20K	1/6W CARBON	
R707	GRD167J-202	20K	1/6W CARBON	
R708	GRD167J-202	20K	1/6W CARBON	
R709	GRD167J-912	9.1K	1/6W CARBON	
R710	GRD167J-912	9.1K	1/6W CARBON	
R711	GRD167J-101	100	1/6W CARBON	
R712	GRD167J-101	100	1/6W CARBON	
R713	GRV144F-3300	—	2/4W M.FILM	
R714	GRV144F-3300	—	2/4W M.FILM	
R715	GRV144F-1602	16K	2/4W M.FILM	
R716	GRV144F-1602	16K	2/4W M.FILM	
R717	GRV144F-8202	82K	1/4W M.FILM	
R718	GRV144F-8202	82K	1/4W M.FILM	
R719	GRD14CJ-121S	120	1/4W UNF.CARBON	
R720	GRD14CJ-121S	120	1/4W UNF.CARBON	
R721	GRG012J-103AM	10K	1W O.M.FILM	
R722	GRG012J-103AM	10K	1W O.M.FILM	
R723	GRV144F-5600	—	1/4W M.FILM	
R724	GRV144F-5600	—	1/4W M.FILM	
R725	GRD167J-391	390	1/6W CARBON	
R726	GRD167J-392	390	1/6W CARBON	
R727	GRD167J-152	1.5K	1/6W CARBON	
R728	GRD167J-152	1.5K	1/6W CARBON	
R729	GRD167J-333	33K	1/6W CARBON	
R730	GRD167J-333	33K	1/6W CARBON	
R731	GRD167J-391	390	1/6W CARBON	
R732	GRD167J-391	390	1/6W CARBON	
R733	GRD167J-152	1.5K	1/6W CARBON	
R734	GRD167J-152	1.5K	1/6W CARBON	
R735	GRG012J-392A	3.9K	1W O.M.FILM	
R741	GRG02ZJ-331A	330	2W O.M.FILM	G
R742	GRG02ZJ-331A	330	2W O.M.FILM	G
R743	GRZ0077-100	10	1/4W FUSIBLE	G
R744	GRZ0077-100	10	1/4W FUSIBLE	G
R745	GRZ0077-100	10	1/4W FUSIBLE	G
R746	GRZ0077-100	10	1/4W FUSIBLE	G
R747	GRZ0077-100	10	1/4W FUSIBLE	G
R748	GRZ0077-100	10	1/4W FUSIBLE	G
R751	GVPE602-503	500	0.15W VARIABLE	
R752	GVPE602-501	500	0.15W VARIABLE	
R753	GRD167J-101	100	1/6W CARBON	
R754	GRD167J-101	100	1/6W CARBON	
R755	ERT-D2WFL351S	350	1/4W THERMISTOR	
R756	ERT-D2WFL351S	350	1/4W THERMISTOR	
R757	GRD167J-471	470	1/6W CARBON	
R758	GRD167J-471	470	1/6W CARBON	
R759	GRD167J-391	390	1/6W CARBON	
R760	GRD167J-391	390	1/6W CARBON	
R761	ERT-D2WHL302S	30K	1/4W THERMISTOR	
R762	ERT-D2WHL302S	30K	1/4W THERMISTOR	
R765	GRZ0077-122	1.2K	1/4W FUSIBLE	
R766	GRZ0077-122	1.2K	1/4W FUSIBLE	
R767	GRZ0077-151	150	1/4W FUSIBLE	
R768	GRZ0077-151	150	1/4W FUSIBLE	
R769	GRZ0077-100	100	1/4W FUSIBLE	
R770	GRZ0077-100	100	1/4W FUSIBLE	
R771	GRZ0077-100	100	1/4W FUSIBLE	
R772	GRZ0077-100	100	1/4W FUSIBLE	
R773	ERFG032K-R22	0.22	3W CEMENT	
R774	ERFG032K-R22	0.22	3W CEMENT	
R775	GRG02ZJ-100A	—	2W O.M.FILM	
R776	GRG02ZJ-100A	—	2W O.M.FILM	
R777	GRD125J-100	—	1/2W UNF.CARBON	
R778	GRD125J-100	—	1/2W UNF.CARBON	
R791	GRZ0077-621	620	1/4W FUSIBLE	
R792	GRZ0077-621	620	1/4W FUSIBLE	
R793	GRZ0077-621	620	1/4W FUSIBLE	
R794	GRZ0077-621	620	1/4W FUSIBLE	
R795	GRZ0077-151	150	1/4W FUSIBLE	
R796	GRZ0077-151	150	1/4W FUSIBLE	
R797	GRZ0077-151	150	1/4W FUSIBLE	
R798	GRZ0077-151	150	1/4W FUSIBLE	
R801	GRZ0077-100	100	1/4W FUSIBLE	
R802	GRZ0077-100	100	1/4W FUSIBLE	
R803	GRD167J-153	15K	1/6W CARBON	
R804	GRD167J-203	20K	1/6W CARBON	
R811	GRZ0077-330	330	1/4W FUSIBLE	
R812	GRZ0077-330	330	1/4W FUSIBLE	
R901	GRD167J-272	0.7K	1/6W CARBON	

Resistors

△	ITEM	PART NUMBER	DESCRIPTION	AREA
R902	GRD167J-272	2.7K	1/6W CARBON	
R903	GRD167J-153	15K	1/6W CARBON	
R904	GRD167J-153	15K	1/6W CARBON	
R905	GRD167J-104	100K	1/6W CARBON	
R906	GRD167J-823	82K	1/6W CARBON	
R907	GRD167J-223	22K	1/6W CARBON	
R908	GRD167J-223	22K	1/6W CARBON	
R909	GRD167J-103	10K	1/6W CARBON	
R911	GRD167J-473	47K	1/6W CARBON	
R916	GRD167J-103	10K	1/6W CARBON	
R917	GRD167J-103	10K	1/6W CARBON	
R918	GRD167J-224	120K	1/6W CARBON	
R919	GRD167J-332	3.3K	1/6W CARBON	
R920	GRD167J-273	27K	1/6W CARBON	
R921	GRD167J-103	10K	1/6W CARBON	
R923	GRD167J-820S	82	1/4W UNF.CARBON	
R924	GRG022Z-122A	6.2K	2W O.M.FILM	
R951	GRD167J-224	120K	1/6W CARBON	
R952	GRD167J-333	33K	1/6W CARBON	
R953	GRD167J-101	100	1/6W CARBON	

△ IS A PART OF THE PARTS.

Others

△	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMW10092-002	PRINTED BOARD	
		E300209-040	RADIAT.PLATE	
		E305804-001	FOLDERS	
		E33754-001	FILE BAND	
		E70945-025	HEAT SINK	
		E73525-001	SPECIAL SCREW	
		E73525-003	SCREW	
		SBSG300800	SCREW	
		GBSG300800	SCREW	
		GBSG300800	SCREW	
		EWT011-078	TERMINAL WIRE	
		EWT011-112	TERMINAL WIRE	
		E74286-002	SPECIAL SCREW	
		GBSG300800	SCREW	
		GMS6440-021	HEADPHONE JACK	
	L701	EQL0001-1R0	INDUCTOR	
	L702	EQL0001-1R0	INDUCTOR	
	S701	GST4241-E07	PUSH SWITCH(SPK1)	
	S702	GST4241-E07	PUSH SWITCH(SPK2)	
	EPO02	E70859-001	MARSH PLATE	
	EPO03	E70859-001	MARSH PLATE	
	FH501	EWR373-13LST	COPLAT WIRE(3PIN)	
	UT501	EMV7122-103	CONNECTOR(3PIN)	
	UT502	EMV7122-004	CONNECTOR(4PIN)	
	BY901	ESK7D24-312G	RELAY	
	MT801	E67764-103	WRAPPING TERMINAL(3PIN)	

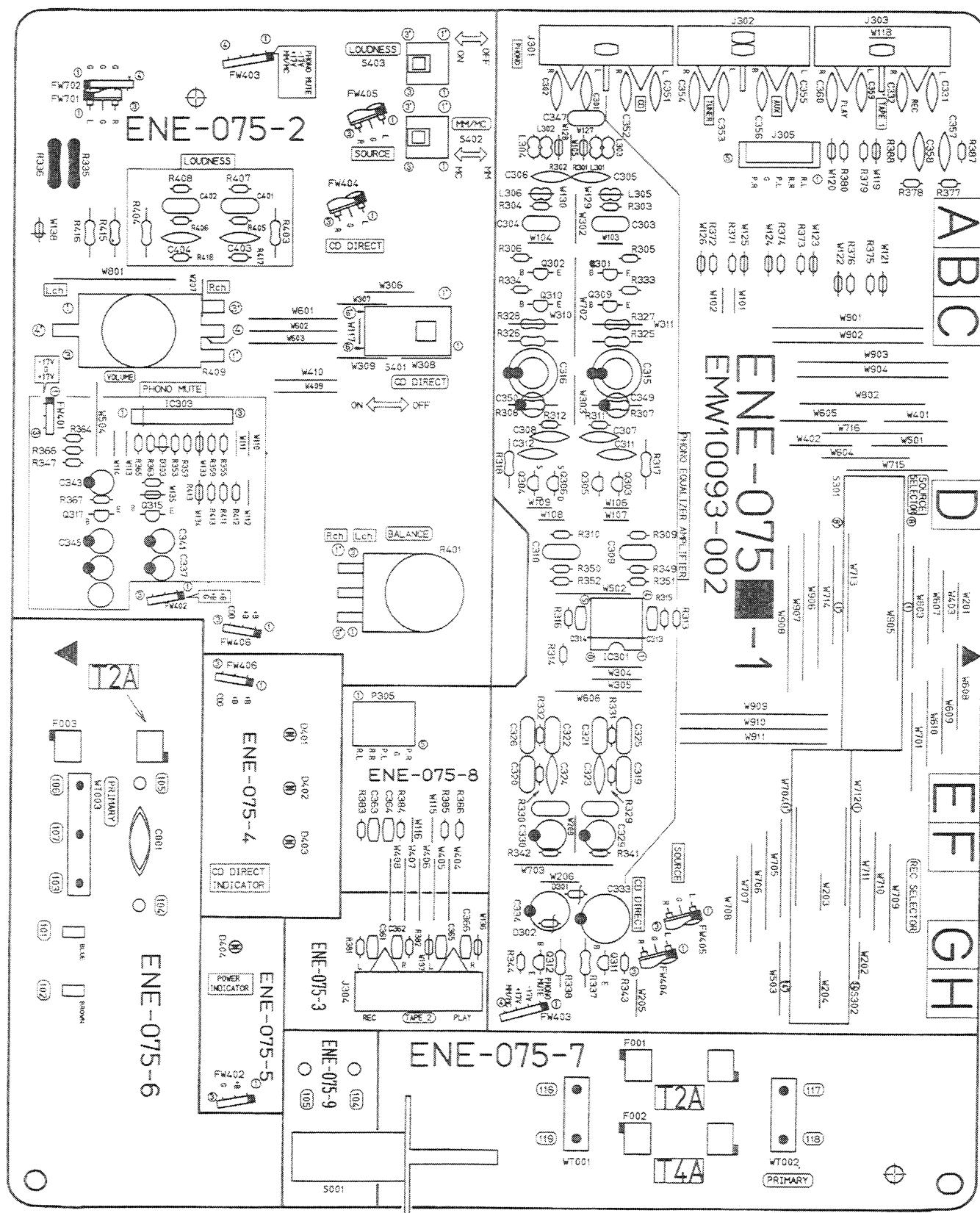
△ IS A PART OF THE PARTS.

△ IS A PART OF THE PARTS.

G

■ ENE-075 □ Source Selector PC Board Ass'y

Note : ENE-075 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENE-075 E	Other Countries
ENE-075 F	Australia, Continental Europe
ENE-075 G	Germany
ENE-075 H BS	the U.K.

Transistors

ITEM	PART NUMBER	DESCRIPTION	AREA
Q301	2SD655(E,F)	SILICON HITACHI	
Q302	2SD655(E,F)	SILICON HITACHI	
Q303	2SK170(BL)	F.E.T TOSHIBA	
Q304	2SK170(BL)	F.E.T TOSHIBA	
Q305	2SK170(BL)	F.E.T TOSHIBA	
Q306	2SK170(BL)	F.E.T TOSHIBA	
Q309	2SD655(E,F)	SILICON HITACHI	
Q310	2SD655(E,F)	SILICON HITACHI	
Q311	2SC2878(A,B)	SILICON TOSHIBA	
Q312	2SC2878(A,B)	SILICON TOSHIBA	
Q315	DTA114YS	SILICON ROHM	
Q317	DTA144ES	SILICON ROHM	

▲: SAFETY PARTS

I.C.s

ITEM	PART NUMBER	DESCRIPTION	AREA
IC301	VC45B0DD	I.C. DAINICHI	
IC303	UPC1237HA	I.C. NEC	

▲: SAFETY PARTS

Diodes

ITEM	PART NUMBER	DESCRIPTION	AREA
D301	RD15LS83	ZENER NEC	
D302	RD15LS83	ZENER NEC	
D303	1SS133	SILICON ROHM	
D401	SLV-31YC3F	L.E.D. ROHM	
D402	SLV-31YC3F	L.E.D. ROHM	
D403	SLV-31YC3F	L.E.D. ROHM	
D404	SLR-34DC3F	L.E.D. ROHM	

▲: SAFETY PARTS

Capacitors

ITEM	PART NUMBER	DESCRIPTION	AREA
C001	QCZ9050-472A	4700PF CERAMIC	E
C001	QCZ9050-472A	4700PF CERAMIC	G
C001	QCZ9050-472A	4700PF CERAMIC	HBS
C301	QCS21HJ-101	100PF SOV CERAMIC	G
C302	QCS21HJ-101	100PF SOV CERAMIC	G
C303	QFV81HJ-103	0.01MF SOV T.FILM	
C303	QFV81HJ-103	0.01MF SOV T.FILM	
C303	QFN81HJ-102	1000PF SOV MYLAR	G
C303	QFN81HJ-103	0.01MF SOV T.FILM	HBS
C304	QFV81HJ-103	0.01MF SOV T.FILM	
C304	QFV81HJ-103	0.01MF SOV T.FILM	
C304	QFN81HJ-102	1000PF SOV MYLAR	G
C304	QFN81HJ-103	0.01MF SOV T.FILM	HBS
C307	QCS21HJ-101	100PF SOV CERAMIC	
C308	QCS21HJ-101	100PF SOV CERAMIC	
C309	QFN81HJ-222	2200PF SOV MYLAR	
C310	QFN81HJ-222	2200PF SOV MYLAR	
C311	QCS21HJ-680	68PF SOV CERAMIC	HBS
C311	QCS21HJ-680	68PF SOV CERAMIC	HBS
C311	QCS21HJ-680	68PF SOV CERAMIC	HBS
C312	QCS21HJ-680	68PF SOV CERAMIC	HBS
C312	QCS21HJ-680	68PF SOV CERAMIC	HBS
C315	EEZ0602-227	220MF ELECTRO	
C316	EEZ0602-227	220MF ELECTRO	
C319	QFN81HJ-472	4700PF SOV MYLAR	
C320	QFN81HJ-472	4700PF SOV MYLAR	
C321	QFN81HJ-533	0.015MF SOV MYLAR	
C322	QFN81HJ-153	0.015MF SOV MYLAR	
C323	QCS21HJ-331	330PF SOV CERAMIC	
C324	QCS21HJ-331	330PF SOV CERAMIC	
C325	QFN81HJ-272	2700PF SOV MYLAR	
C326	QFN81HJ-272	2700PF SOV MYLAR	
C326	EEZ5009-106	10MF ELECTRO	
C330	EEZ5009-106	10MF ELECTRO	

Capacitors

ITEM	PART NUMBER	DESCRIPTION	AREA
C331	QCS21HJ-101	100PF 50V CERAMIC	G
C332	QCS21HJ-101	100PF 50V CERAMIC	G
C333	EEZ22505-227	220MF ELECTRO	
C334	EEZ22505-107	100PF ELECTRO	
C337	QEKS1CM-226	22MF 16V ELECTRO	
C341	QEKS1HM-475	4.7MF 50V ELECTRO	
C343	QEKS1EM-475G	4.7MF 25V ELECTRO	
C345	QEKS1HM-106	10MF 50V ELECTRO	
C347	QFV81HJ-103	0.01MF 50V T.FILM	
C351	QCS21HJ-101	100PF 50V CERAMIC	G
C352	QCS21HJ-101	100PF 50V CERAMIC	G
C353	QCS21HJ-101	100PF 50V CERAMIC	G
C354	QCS21HJ-101	100PF 50V CERAMIC	G
C358	QCS21HJ-101	100PF 50V CERAMIC	G
C359	QCS21HJ-101	100PF 50V CERAMIC	G
C360	QCS21HJ-101	100PF 50V CERAMIC	G
C361	QCB81HK-102	100PF 50V CERAMIC	G
C362	QCB81HK-101	100PF 50V CERAMIC	G
C365	QCB81HK-101	100PF 50V CERAMIC	G
C366	QCB81HK-101	100PF 50V CERAMIC	G
C401	QFV81HJ-563	0.056MF 50V T.FILM	
C402	QFV81HJ-563	0.056MF 50V T.FILM	
C403	QCS21HJ-471	470PF 50V CERAMIC	
C404	QCS21HJ-471	470PF 50V CERAMIC	

▲: SAFETY PARTS

Resistors

ITEM	PART NUMBER	DESCRIPTION	AREA
R301	QRD167J-102	1K 1/6W CARBON	G
R302	QRD167J-102	1K 1/6W CARBON	G
R303	QRD167J-101	100 1/6W CARBON	
R304	QRD167J-101	100 1/6W CARBON	
R305	QRD167J-103	10K 1/6W CARBON	
R306	QRD167J-103	10K 1/6W CARBON	
R307	ERD003J-100	10 1/4W CARBON	
R308	ERD003J-100	10 1/4W CARBON	
R309	QRD167J-680	68 1/6W CARBON	
R310	QRD167J-680	68 1/6W CARBON	
R311	QRD167J-475	47K 1/6W CARBON	
R312	QRD167J-473	47K 1/6W CARBON	
R313	QRD167J-472	4.7K 1/6W CARBON	
R314	QRD167J-472	4.7K 1/6W CARBON	
R315	QRD167J-472	4.7K 1/6W CARBON	
R316	QRD167J-472	4.7K 1/6W CARBON	
R317	ERD003J-472	4.7K 1/4W CARBON	
R318	ERD003J-180	18 1/4W CARBON	
R325	ERD003J-180	18 1/4W CARBON	
R327	ERD003J-221	220 1/4W CARBON	
R328	ERD003J-221	220 1/4W CARBON	
R329	QRD167J-153	15K 1/6W CARBON	
R330	QRD167J-153	15K 1/6W CARBON	
R331	GRV144F-1913A	191K 1/4W M.FILM	
R332	GRV144F-1913A	191K 1/2W M.FILM	
R333	QRD167J-103	10K 1/6W CARBON	
R334	QRD167J-103	10K 1/6W CARBON	
R335	QRD007J-101	100 1/4W FUSIBLE	
R336	QRD007J-181	180 1/4W FUSIBLE	
R337	ERD003J-471	470 1/4W CARBON	
R338	ERD003J-471	470 1/4W CARBON	
R341	QRD167J-104	100K 1/6W CARBON	
R342	QRD167J-104	100K 1/6W CARBON	
R343	QRD167J-103	10K 1/6W CARBON	
R344	QRD167J-103	10K 1/6W CARBON	
R347	QRD167J-474	470K 1/6W CARBON	
R349	QRD167J-125	1.2M 1/6W CARBON	
R350	QRD167J-125	1.2M 1/6W CARBON	
R351	QRD167J-125	1.2M 1/6W CARBON	
R352	QRD167J-125	1.2M 1/6W CARBON	
R353	QRD167J-472	8.7K 1/6W CARBON	
R355	QRD167J-392	15.9K 1/6W CARBON	
R357	QRD167J-152	1.5K 1/6W CARBON	
R359	QRD167J-473	47K 1/6W CARBON	
R363	QRD167J-104	100K 1/6W CARBON	
R364	QRD167J-104	100K 1/6W CARBON	
R365	QRD167J-104	100K 1/6W CARBON	
R366	QRD167J-474	470K 1/6W CARBON	
R367	QRD167J-473	47K 1/6W CARBON	
R371	QRD167J-472	470K 1/6W CARBON	
R372	QRD167J-474	470K 1/6W CARBON	
R373	QRD167J-474	470K 1/6W CARBON	
R374	QRD167J-474	470K 1/6W CARBON	
R375	QRD167J-474	470K 1/6W CARBON	
R376	QRD167J-474	470K 1/6W CARBON	
R377	QRD167J-105	1M 1/6W CARBON	
R378	QRD167J-105	1M 1/6W CARBON	
R379	QRD167J-474	470K 1/6W CARBON	
R380	QRD167J-474	470K 1/6W CARBON	

Resistors

ITEM	PART NUMBER	DESCRIPTION	AREA
R381	QRD167J-331	330 1/6W CARBON	
R382	QRD167J-331	330 1/6W CARBON	
R383	QRD167J-105	1M 1/6W CARBON	
R384	QRD167J-105	1M 1/6W CARBON	
R385	QRD167J-474	470K 1/6W CARBON	
R386	QRD167J-474	470K 1/6W CARBON	
R387	QRD167J-331	330 1/6W CARBON	
R388	QRD167J-331	330 1/6W CARBON	
R401	QVDB87M-EF58	250K VARIABLE	
R403	ERD003J-103	10K 1/4W CARBON	
R404	ERD003J-103	10K 1/4W CARBON	
R405	QRD167J-623	62K 1/6W CARBON	
R406	QRD167J-623	62K 1/6W CARBON	
R407	QRD167J-474	470K 1/6W CARBON	
R408	QRD167J-474	470K 1/6W CARBON	
R409	QVDB90B-E158	100K VARIABLE	
R411	QRD167J-331	330 1/6W CARBON	
R412	QRD167J-331	330 1/6W CARBON	
R413	QRD167J-681	680 1/6W CARBON	
R414	QRD167J-511	510 1/6W CARBON	
R415	ERD003J-221	220 1/4W CARBON	
R416	ERD003J-221	220 1/4W CARBON	
R417	QRD167J-333	33K 1/6W CARBON	
R418	QRD167J-333	33K 1/6W CARBON	

△ : SAFETY PARTS

Others

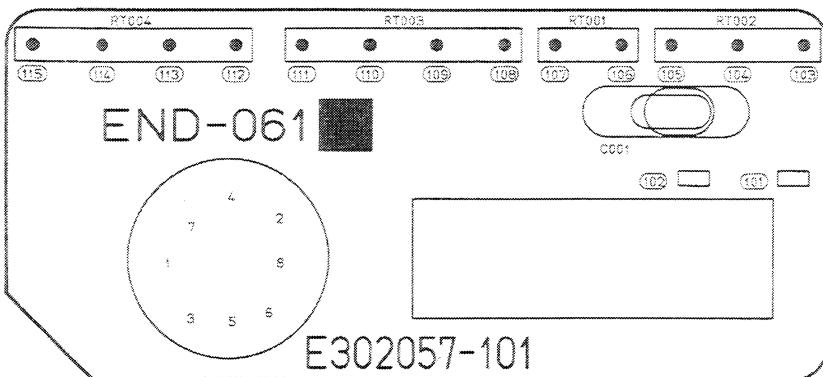
ITEM	PART NUMBER	DESCRIPTION	AREA
F001	E65508-002	TAB	HBS
F002	E67132-T2R5	FUSE LABEL	E
F003	E67132-T2R5	FUSE LABEL	M
F003	E67132-T2R5	FUSE LABEL	G
F003	E67132-T2R5	FUSE LABEL	HBS
J301	EMNOOTV-406A	KP PIN JACK	E
J302	EMNOOTV-404A	KP PIN JACK	M
J303	EMNOOTV-404A	KP PIN JACK	G
J304	EMNOOTV-404A	KP PIN JACK	HBS
J305	EMV5125-005	PLUG ASSY(X3PIN)	G
L301	EGL4004-330	INDUCTOR	G
L302	EGL4004-330	INDUCTOR	G
L303	EQL4004-330	INDUCTOR	G
L304	EQL4004-330	INDUCTOR	G
P305	ENV7125-005R	CONNECTOR(5PIN)	G
S001	QSP1106-004	POWER SWITCH	E
S001	QSP1106-004	POWER SWITCH	F
S001	QSP1106-004	POWER SWITCH	G
S001	QSP4C1-E03BS	PUSH SWITCH	HBS
S301	QSS1R26-E01	SLIDE SWITCH(SOURCE SELECT)	E
S302	QSS1R46-E01	SLIDE SWITCH(REC SELECT)	F
S401	GSTL101-E04	PUSH SWITCH(CD DIRECT)	G
S402	GSTL241-E03	PUSH SWITCH(MM/MC)	HBS
FW401	EWR33B-13LST	FLAT WIRE(3PIN)	E
FW402	EWR33B-16SST	FLAT WIRE(5PIN)	F
FW403	EWR34B-30SST	FLAT WIRE(4PIN)	G
FW404	EWR23C-25NN	FLAT WIRE(3PIN)	H
FW405	EWR23C-25NN	FLAT WIRE(3PIN)	H
FW406	EWR33B-13SST	FLAT WIRE(3PIN)	H
FW701	EWR23C-16LN	FLAT WIRE(3PIN)	E
FW702	EWR34B-16LST	FLAT WIRE(4PIN)	F
WT001	E67764-202	WRAPPING TERMINAL(2PIN)	E
WT002	E67764-202	WRAPPING TERMINAL(2PIN)	F
WT003	E67764-203	WRAPPING TERMINAL(3PIN)	G
WT003	E67764-203	WRAPPING TERMINAL(3PIN)	HBS
WT003	E67764-203	WRAPPING TERMINAL(3PIN)	HBS

△ : SAFETY PARTS

Others

ITEM	PART NUMBER	DESCRIPTION	AREA
EMG7331-002	FUSE CLIP	E	
EMG7331-002U	FUSE CLIP	E	
EWK10093-002	PRINTED BOARD	E	
EMG7331-002	FUSE CLIP	G	
EMG7331-002U	FUSE CLIP	G	
EWK10093-002	PRINTED BOARD	G	
E65508-002	TAB	G	
EMG7331-002	FUSE CLIP	G	
EMG7331-002U	FUSE CLIP	G	
EWK10093-002	PRINTED BOARD	G	
E65508-002	TAB	HBS	
EMG7331-002	FUSE CLIP	HBS	
EMG7331-002U	FUSE CLIP	HBS	
EWK10093-002BS	PRINTED BOARD	HBS	

END-061 [B] Voltage Selector PC Board Ass'y (Only for Other Countries)



Capacitors

ITEM	PART NUMBER	DESCRIPTION	AREA
C001	QCZ9018-103	0.01MF CERAMIC	

△ : SAFETY PARTS

Others

ITEM	PART NUMBER	DESCRIPTION	AREA
	E302057-101	CIRCUIT BOARD	
	E65508-002	TAB	
	E67764-302	WRAPPING TERMINAL	
	E67764-303	WRAPPING TERMINAL	
	E67764-304	WRAPPING TERMINAL	
	QMC0037-004	AC OUTLET	
	QSR0035-048	VOLTAGE SELECTOR	

△ : SAFETY PARTS

Accessories List

⚠	Part Number	Part Name	Q'ty	Description	Areas
	E30580-1712A E30580-1712ABS E30580-1717A BT-20117 BT20060	Instruction Book Instruction Book Instruction Book Warranty Card Warranty Card	1 1 1 1 1		U , A , E , EF , G BS E , EF G BS
	BT-20122 BT-20122-1 BT20066A E43486-340A QZL1008-001	Warranty Card Sticker EEC Agency Safety Sheet FTZ Information Sheet	1 1 1 1 1		A A BS BS G
⚠	E04056 E35497-019 E41202-2 E41202-2B	Siemens Plug Caution Sheet Envelope Envelope	1 1 1 1	220V	U U Except BS BS

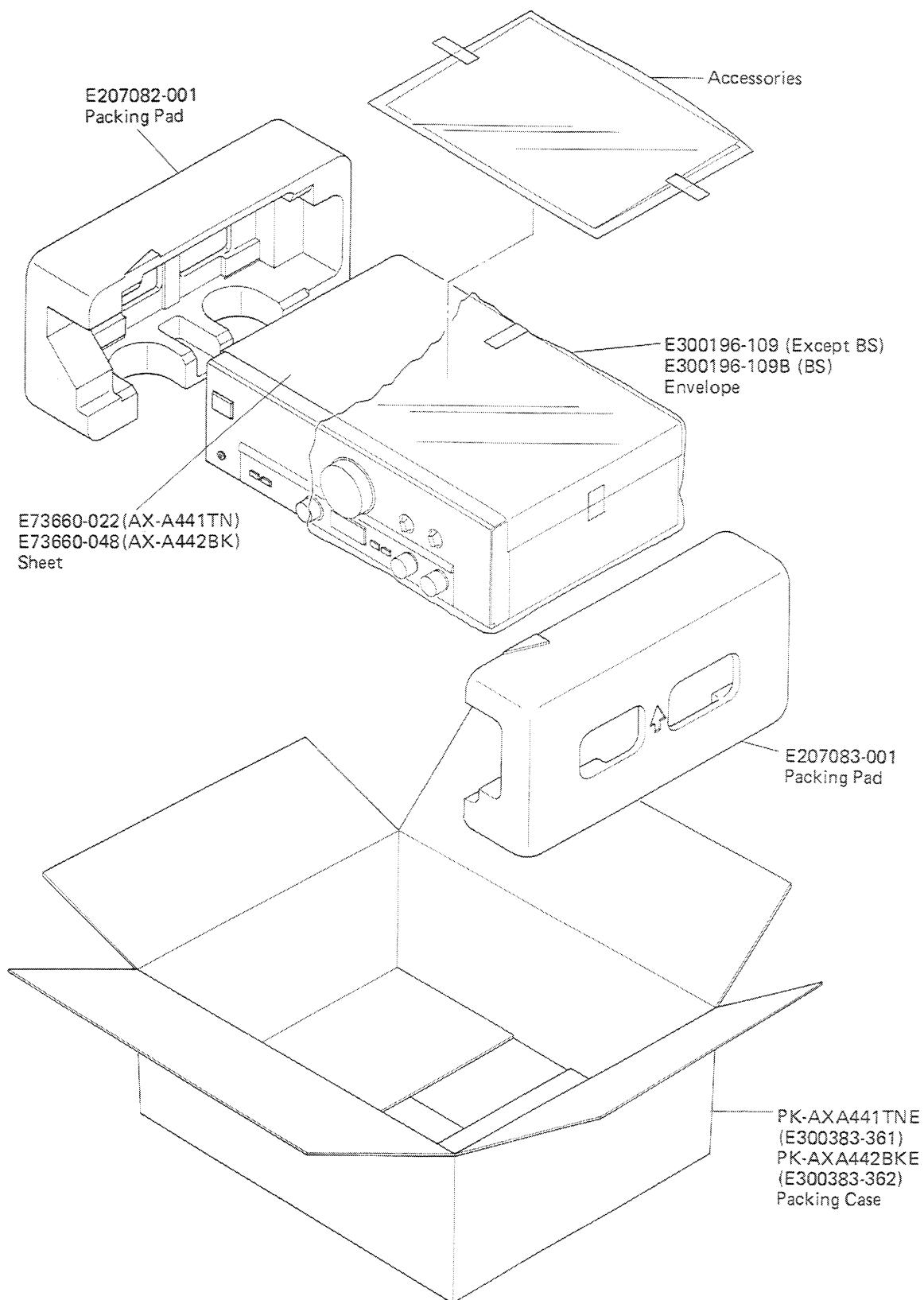
⚠: Safety Parts

The Marks Designated Areas

A.....Australia
 G.....Germany
 E , EF.....Continental Europe

BS.....the U.K.
 U.....Other Countries
 No mark indicates all areas.

Packing Materials and Part Numbers



The Marks Designated Areas

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