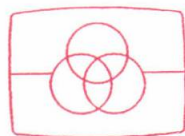
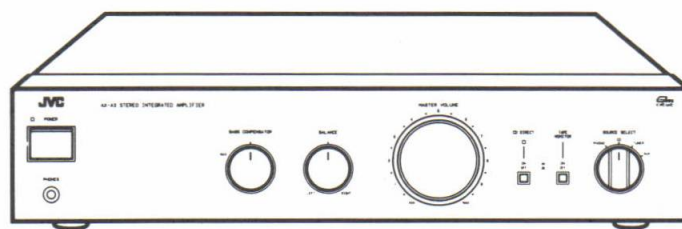


JVC

SERVICE MANUAL

STEREO INTEGRATED AMPLIFIER

MODEL No. **AX-A3TN**



Free service manuals

Gratis schema's

Digitized by

www.freeservicemanuals.info

Contents

	Page		Page
Safety Precautions.....	1-2	Internal Block Diagrams of ICs.....	1-13
Instruction Book	1-3	Connection Diagram	1-14
Specifications.....	1-9	Parts List.....	2-1
Block Diagram	1-11	Schematic Diagram	Insertion
Removal Procedures.....	1-12		

Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purpose. 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.

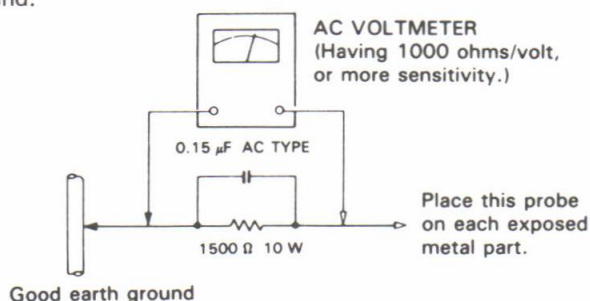
Do not use a line isolation transformer during this check.

- 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 Ω 10 W resistor paralleled by a 0.15 μ 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.

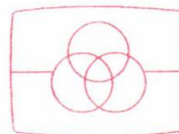
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).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

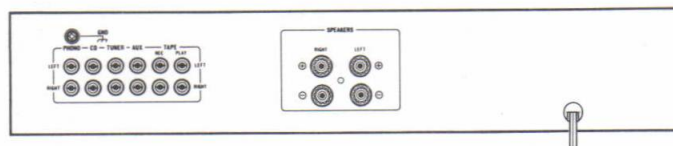
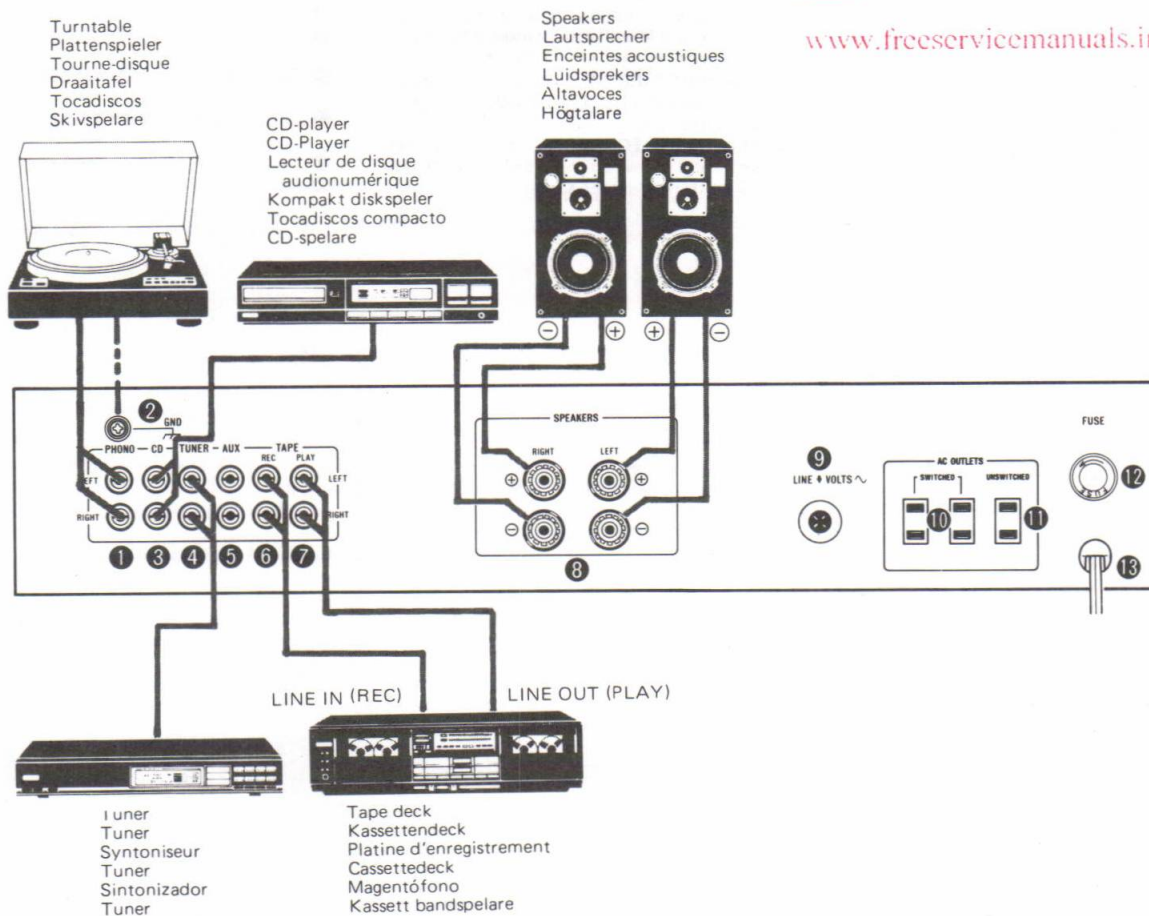
CONNECTION DIAGRAM
ANSCHLUSSDIAGRAMM
SCHEMA DE RACCORDEMENTS
AANSLUITINGSSCHEMA
DIAGRAMA DE CONEXIONES
ANSLUTNINGSSCHEMA



Free service manuals
Gratis schema's

Digitized by

www.freesevicemanuals.info



Provided on units for Continental Europe, the United Kingdom and Australia.
Vorhanden an Geräten für Kontinentaleuropa, Großbritannien und Australien.
Fourni sur les appareils pour l'Europe Continentale, le Royaume-Uni et l'Australie.
Aanwezig op apparaten voor het Europese Vasteland, Groot-Brittannië en Australië.
Se provee en las unidades para Europa Continental, el Reino Unido y Australia.
För kontinentala Europa, Storbritannien och Australien.

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 REC terminals
 - ⑦ TAPE PLAY terminals
 - ⑧ SPEAKERS terminals
 - ⑨ AC line voltage selector (LINE ↓ VOLTS ~)*
 - ⑩ SWITCHED AC OUTLETS*
 - ⑪ UNSWITCHED AC OUTLET*
 - ⑫ FUSE holder*
 - ⑬ Power cord
- (*Not provided on units for Continental Europe, the United Kingdom and Australia.)

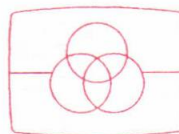
Notes:

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 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-A2TN/AX-A3TN.
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 Aufnahmeanschlüsse (TAPE REC)
 - ⑦ Tonband Wiedergabeanschlüsse (TAPE PLAY)
 - ⑧ Lautsprecher Anschlüsse (SPEAKER)
 - ⑨ Netzspannungswähler (LINE ↓ VOLTS ~)*
 - ⑩ Beschaltete Netzausgänge (SWITCHED AC OUTLETS)*
 - ⑪ Unbeschalteter Netzausgang (UNSWITCHED AC OUTLET)*
 - ⑫ Sicherunghalter*
 - ⑬ Netzkabel
- (*Nicht vorhanden an Geräten für Kontinental-Europa, Großbritannien und Australien.)

FRONT PANEL
FRONTPLATTE
PANNEAU AVANT
VOORPANEEL
PANEL DELANTERO
FRAMPANEL

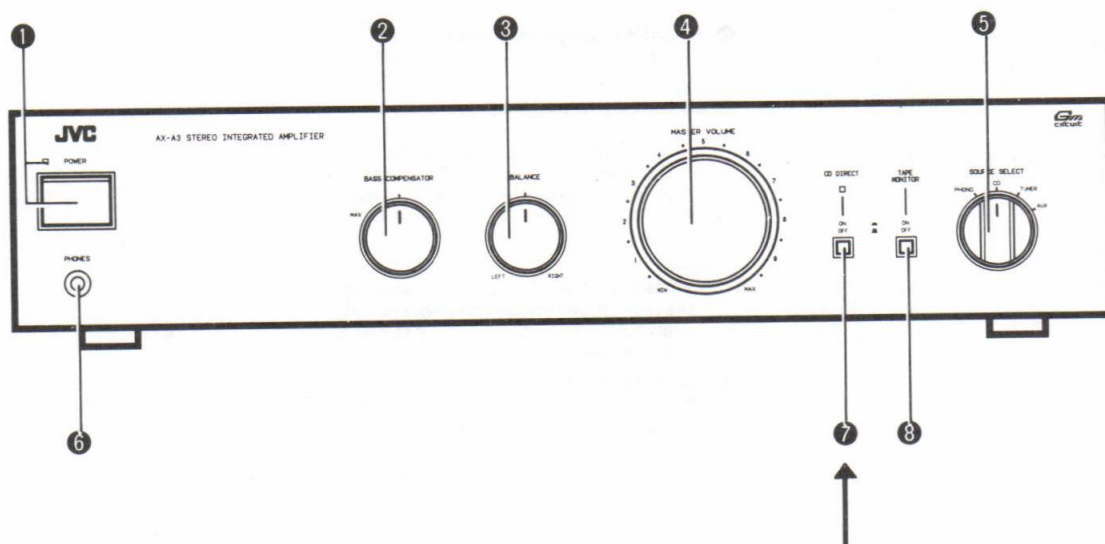


Free service manuals

Gratis schema's

Digitized by

www.freeservicemanuals.info



AX-A3TN only
nur AX-A3TN
AX-A3TN seulement
alleen in AX-A3TN
AX-A3TN solamente
endast AX-A3TN

FRONT PANEL

These instructions are prepared for two models: AX-A2TN/AX-A3TN
Therefore, read the items below concerning each model.

❶ 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.

❷ BASS COMPENSATOR

When sound volume is turned down, the human ear tends to become less aware of bass sound. At low sound levels the BASS COMPENSATOR knob can be used to emphasize the bass sound. For ordinary use, the knob should be set to the normal position.

❸ BALANCE

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

❹ VOLUME

Controls the volume of the speakers and headphones.

❺ SOURCE SELECT

PHONO

Set this knob to this position to listen to the PHONO.

CD

Set this knob to this position to listen to the CD.

TUNER

Set this knob to this position to listen to the TUNER.

AUX

Set this knob to this position to listen to the AUX.

❻ PHONES (Headphones jack)

Plug stereo headphones into this jack for private listening.

❼ CD DIRECT (AX-A3TN only)

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, to enjoy listening to an improved sound quality.

Note:

- While the CD DIRECT button is pressed, the reproduced sound does not change, even if SOURCE SELECT and BALANCE are operated.

❽ TAPE MONITOR

Press in to listen to a tape played on a tape deck connected to the TAPE terminal. If your tape deck is a three-head deck, you can monitor the sound that has been recorded on the tape. To release this function, press it again.

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 CD

1. Connect a CD to the CD terminals on the rear panel.
2. Press the Power button on.
3. Make sure that the TAPE MONITOR buttons are set to off.
4. Operate the CD according to instruction manual.
5. Adjust the VOLUME, BALANCE and BASS COMPENSATOR controls.

Listening to broadcasts

1. Connect a tuner to the TUNER terminals on the rear panel.
2. Press the POWER button on.
3. Adjust the SOURCE SELECT to the tuner section.
4. Operate the tuner according to instruction manual.
5. Adjust the VOLUME, BALANCE and BASS COMPENSATOR controls.

Listening to records

1. Connect a turntable to the PHONO terminals on the rear panel.
2. Press the Power button on.
3. Make sure that the TAPE MONITOR buttons are set to off.
4. Operate the turntable according to instruction manual.
5. Adjust the VOLUME, BALANCE and BASS COMPENSATOR controls.

Listening to tape

1. Connect a tape deck to the PLAY terminals.
2. Press the POWER button on.
3. Press the TAPE MONITOR button to play back the tape deck.
4. Operate the tape deck for playback according to its instruction manual.
5. 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.

Recording tapes

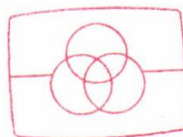
1. Connect a tape deck to the REC terminals of the tape terminals.
2. Press the POWER button on.
3. Set the SOURCE SELECT to the desired source.
4. Operate the tape deck for recording.

Note: (AX-A3TN only)

- A CD can be played while recording another source .
The CD DIRECT feature allows you to play a CD while recording another source. If you want to listen to any source other than the CD, press the CD DIRECT button again to cancel the CD DIRECT feature.

How to operate the monitor while recording on the tape deck

1. Connect a 3-head tape deck to the TAPE terminals.
2. Make sure to connect the signal cord to the PLAY and REC terminals.
3. Select the source from which you want to record by adjusting the SOURCE SELECT on this unit.
4. Operate the tape as described in its instruction.
5. By playing the source component, you can record on the tape deck.
6. Press the TAPE MONITOR button during recording to monitor the recorded sound.



Free service manuals
Gratis schema's

Digitized by

www.freesevicemanuals.info

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?

Is the VOLUME control properly set?

Is your source component correctly set?

Check that TAPE MONITOR is not on.

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?

STÖRUNGSSUCHE

Die meisten Betriebsstörungen sind auf einfache Ursachen zurückzuführen.

Überprüfen Sie deshalb noch einmal

Kein Ton und keine Anzeige

Ist der Netzstecker richtig eingesteckt?

Wurden alle Anschlüsse richtig vorgenommen?

Sind die Verbindungen zwischen den Geräten richtig hergestellt?

Kein Ton von beiden Lautsprechern

Sind die Lautsprecherkabel angeschlossen?

Ist die Lautstärke (VOLUME) korrekt eingestellt?

Ist die Signalquelle richtig eingestellt?

Sicherstellen, daß die Taste TAPE MONITOR nicht in Ein-Stellung steht.

Ton kommt nur von einem Lautsprecher

Sind die Lautsprecherkabel richtig angeschlossen?

Ist der Balanceregler (BALANCE) zu weit nach rechts oder zu weit nach links gedreht?

Lautes Brummgeräusch beim Abspielen einer Schallplatte

Ist der Plattenspieler geerdet?

Evtl. die Kabel anders verlegen.

Die Stecker vertauscht einstecken.

Rückkopplung beim Abspielen einer Schallplatte

Steht der Plattenspieler zu nahe am Lautsprecher?

EN CAS DE DIFFICULTÉ

Ce qui semble au départ être un mauvais fonctionnement n'est pas toujours très sérieux.

Assurez-vous d'abord que

Aucun son et pas d'éclairnement

La prise CA est-elle correctement branchée?

Les raccordements sont-ils bien faits?

Les connexions entre les divers composants sont-elles correctes?

Pas de son des haut-parleurs

Les câbles des haut-parleurs sont-ils raccordés?

La commande VOLUME est-elle réglée correctement?

Vos appareils de source sont-ils correctement installés?

Vérifier que TAPE MONITOR n'est pas réglé sur ON.

Le son ne provient que d'un seul haut-parleur

Les câbles de haut-parleurs sont-ils raccordés correctement?

La commande BALANCE est-elle tournée à fond dans un sens ou dans l'autre?

Bourdonnement sourd pendant la lecture de disques

La platine est-elle mise à la terre?

Essayer de changer l'emplacement du cordon.

Insérer les fiches en interchangeant leur position.

Hurlement pendant la lecture de disques

La platine tourne-disque est-elle trop près des haut-parleurs?

SPECIFICATIONS

AX-A2TN

OVERALL CHARACTERISTICS

Output power:

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

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

25 watts per channel, min. RMS, both channels driven, into 8 ohms from 40 Hz to 20 kHz, with no more than 0.007% total harmonic distortion.

25 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% (40 Hz — 20 kHz, 8 ohms) at 25 watts
Intermodulation distortion	: 0.007% (60 Hz : 7 kHz = 4 : 1, 8 ohms) at 25 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	: 55 (1 kHz, 8 ohms)
Input terminals	
Input sensitivity/impedance (1 kHz)	
PHONO	: 2.5 mV/47 kohms
CD/AUX/	: 150 mV/30kohms
TUNER/TAPE	
Signal-to-noise ratio	
PHONO	: 71 dB ('66 IHF)
CD/AUX/	: 104 dB ('66 IHF)
TUNER/TAPE	
PHONO	: 67 dB (DIN)
CD/AUX/	: 68 dB (DIN)
TUNER/TAPE	
BASS COMPENSATOR	: +5dB (at 100 Hz)
(Volume control at -30 dB position)	

AX-A3TN

OVERALL CHARACTERISTICS

Output power:

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

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

35 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.

35 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 35 watts
Intermodulation distortion	: 0.007% (60 Hz : 7 kHz = 4 : 1, 8 ohms) at 35 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	: 2.5 mV/47 kohms
CD/AUX/	: 200 mV/30kohms
TUNER/TAPE	
Signal-to-noise ratio	
PHONO	: 71 dB ('66 IHF)
CD/AUX/	: 104 dB ('66 IHF)
TUNER/TAPE	
PHONO	: 67 dB (DIN)
CD/AUX/	: 68 dB (DIN)
TUNER/TAPE	
BASS COMPENSATOR	: +5 dB (at 100Hz)
(Volume control at -30 dB position)	

EQUALIZER

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

Recording output
 Output level/impedance : 150 mV/Maximum 1 kohms
 TAPE REC

GENERAL

Dimensions : 435 (W) x 92 (H) x 251 (D) mm
 (17-3/16" x 3-5/8" x 9-7/16")

Weight : 4.3 kg (9.5 lbs.)

Design and specifications subject to change without notice.

EQUALIZER

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

Recording output
 Output level/impedance : 200 mV/Maximum 1 kohms
 TAPE REC

GENERAL

Dimensions : 435 (W) x 92 (H) x 251 (D) mm
 (17-3/16" x 3-5/8" x 9-7/16")

Weight : 5.1 kg (11.3 lbs.)

Design and specifications subject to change without notice.

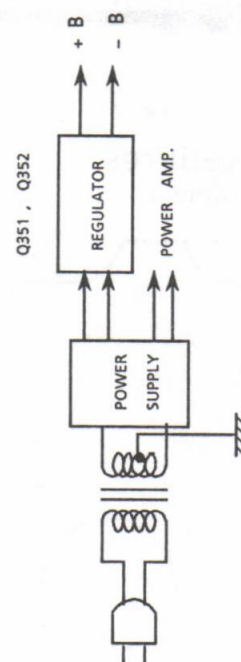
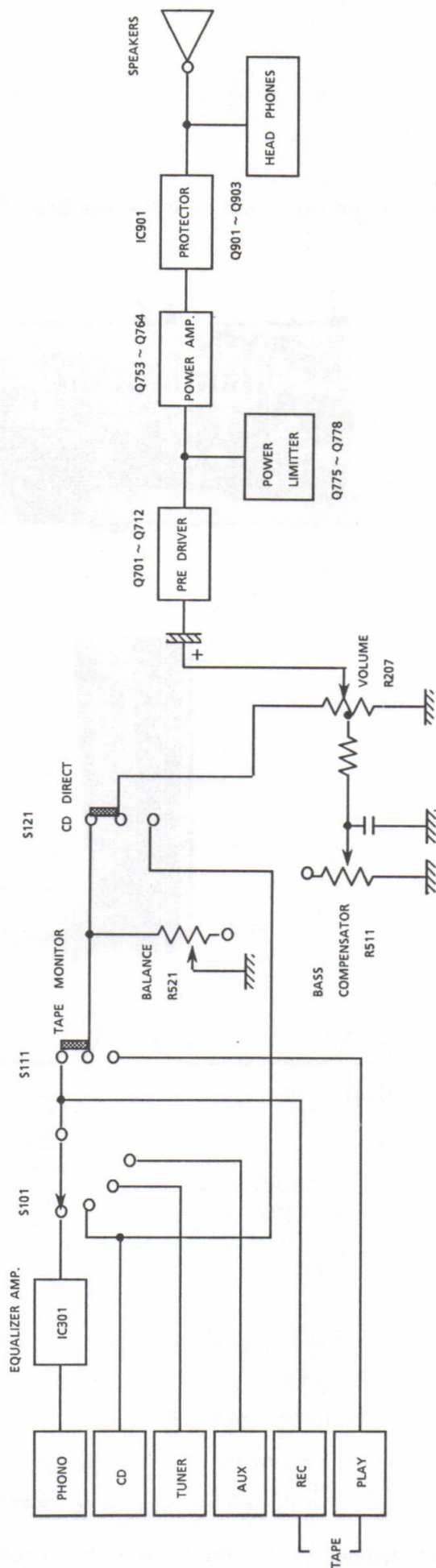
POWER SPECIFICATIONS

Areas	Line voltage & frequency	Power consumption	
		AX-A2TN	AX-A3TN
Continental Europe	AC 220 V~, 50 Hz	130 watts	150 watts
U.K.	AC 240 V~, 50 Hz	260 watts	340 watts
Australia			
Other areas	AC 110/127/220/240 V~ selectable, 50/60 Hz	140 watts	160 watts

**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.

Block Diagram



Removal Procedures

■ Removing the metal cover

1. Remove 2 screws on both sides.
2. Remove 3 screws located on the top of rear panel.
3. Slightly open both sides of the metal cover, to the left and right, and raise the rear side. Then slowly lift it up and straight backward.

■ Removing the front panel

1. Remove the metal cover.
2. Pull out the master volume knob.
3. Remove 3 plastic revets (A).
4. Remove 3 screws (B).

■ Removing the power transistors

1. Remove the metal cover.
2. Remove 10 screws on the bottom plate (C).
3. Remove 4 screws (D) holding the heat sink brackets.
4. Set the unit as shown in Fig - 3.
5. Unsolder the defective power transistor.
6. Remove the screw holding the power transistor using a pair of pliers, a wrench or a bent screwdriver.

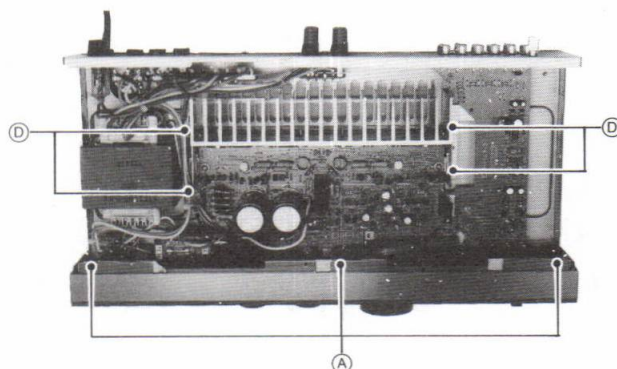


Fig - 1

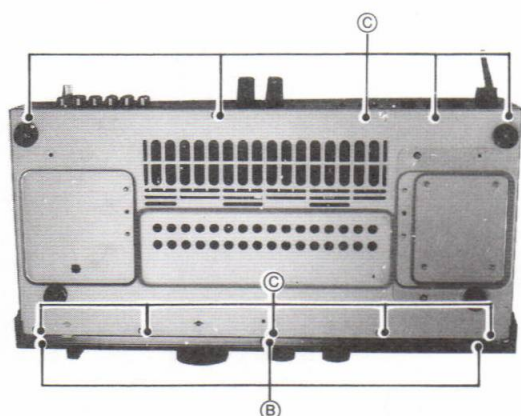


Fig - 2

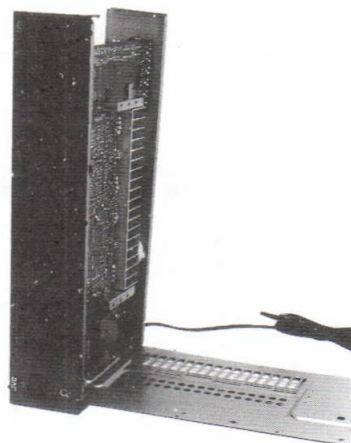
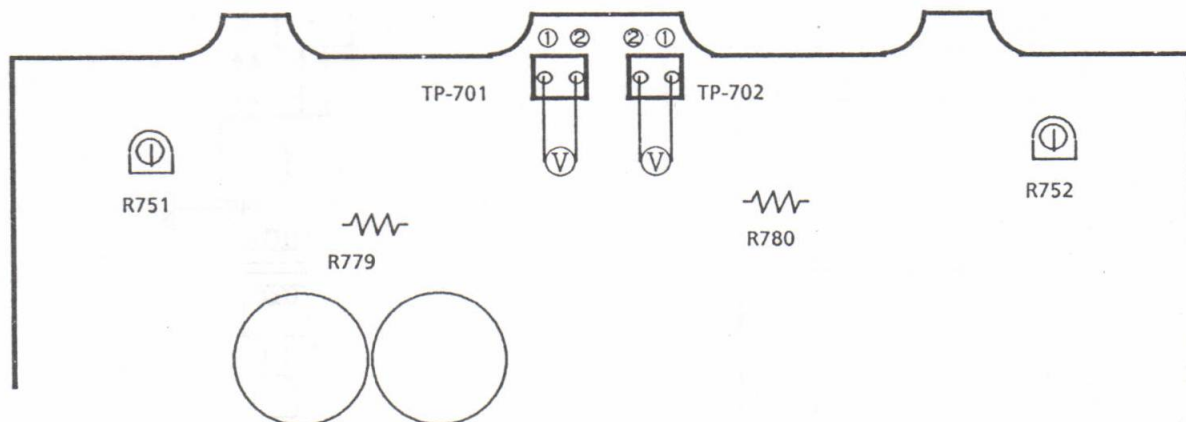


Fig - 3

Adjustment Procedures

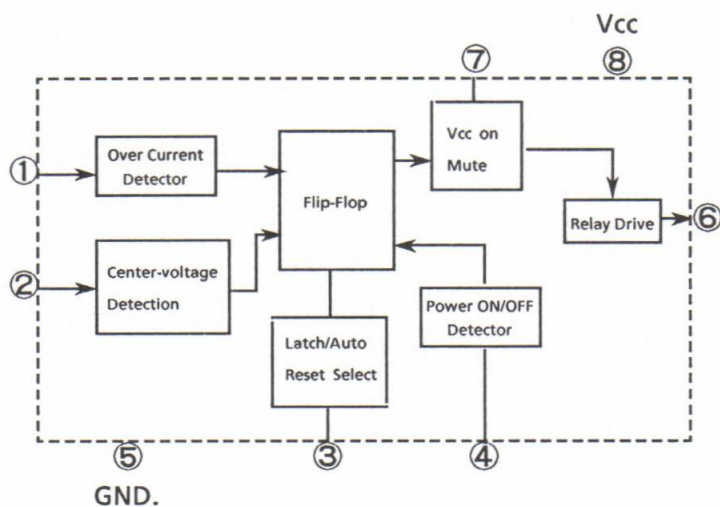
■ Idling current adjustment



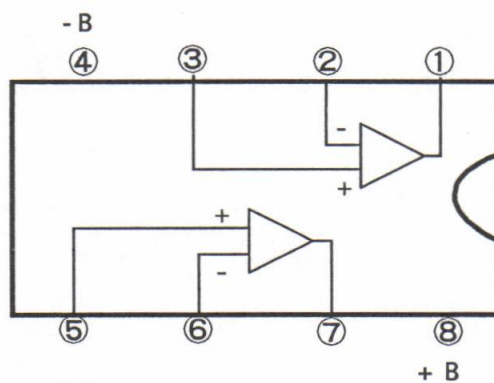
- (1) Turn R751 and R752 fully counterclockwise before the power switch on.
- (2) Warm up at least 5 minutes before adjustment.
- (3) Must keep the heatsink to prevent overheating before adjustment.
- (4) Set the volume control to minimum during this adjustment.
- (5) Connect a DC voltmeter to TP-701 (or both ends of R779) for left channel, or to TP-702 (or both ends of R780) for right channel.
- (6) Adjust R751 for left channel, or R752 for right channel, so that the DC voltmeter becomes 7mV~13mV.

Internal Block Diagrams of ICs

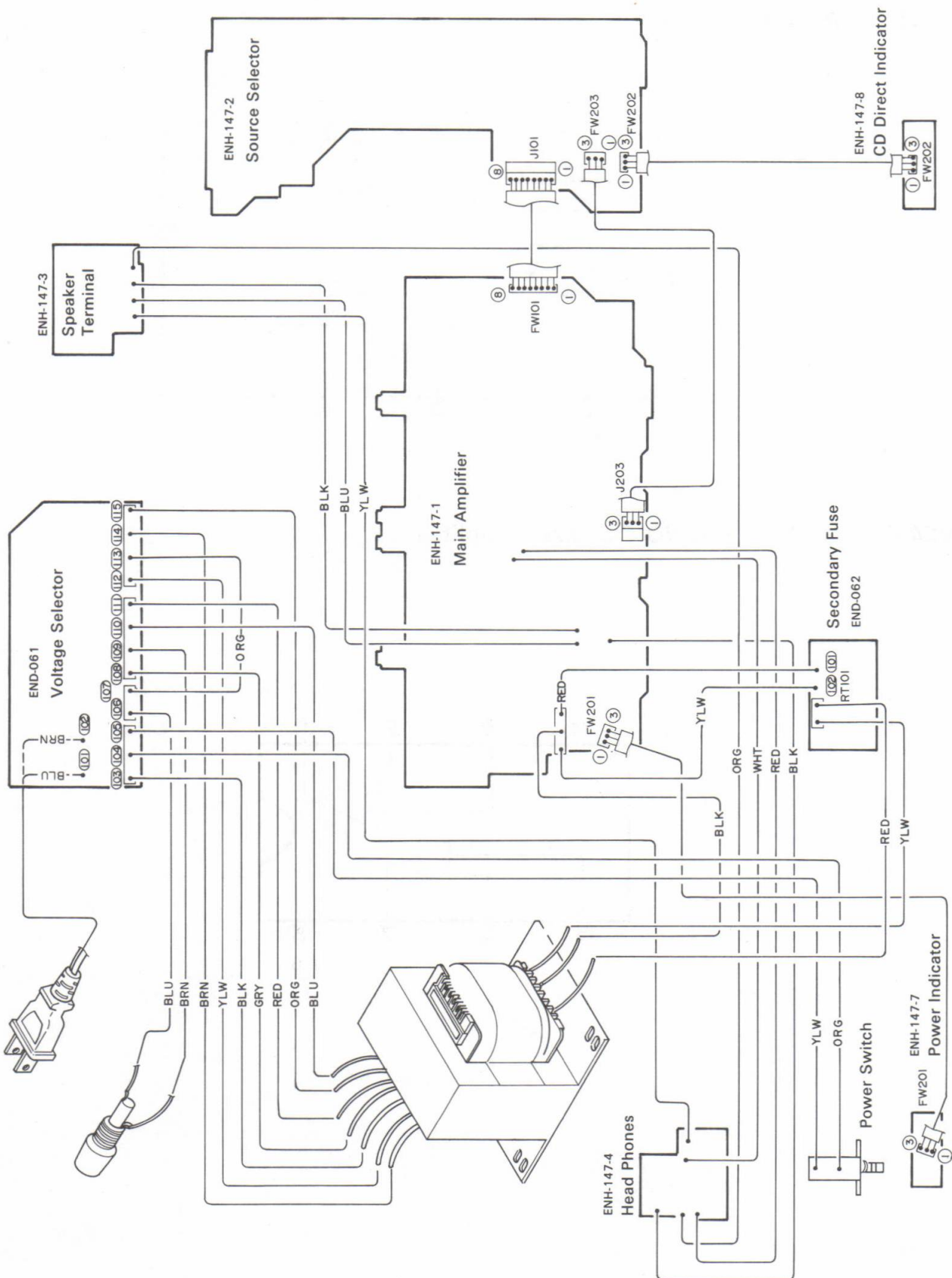
■ μ PC1237HA (IC901): Protector



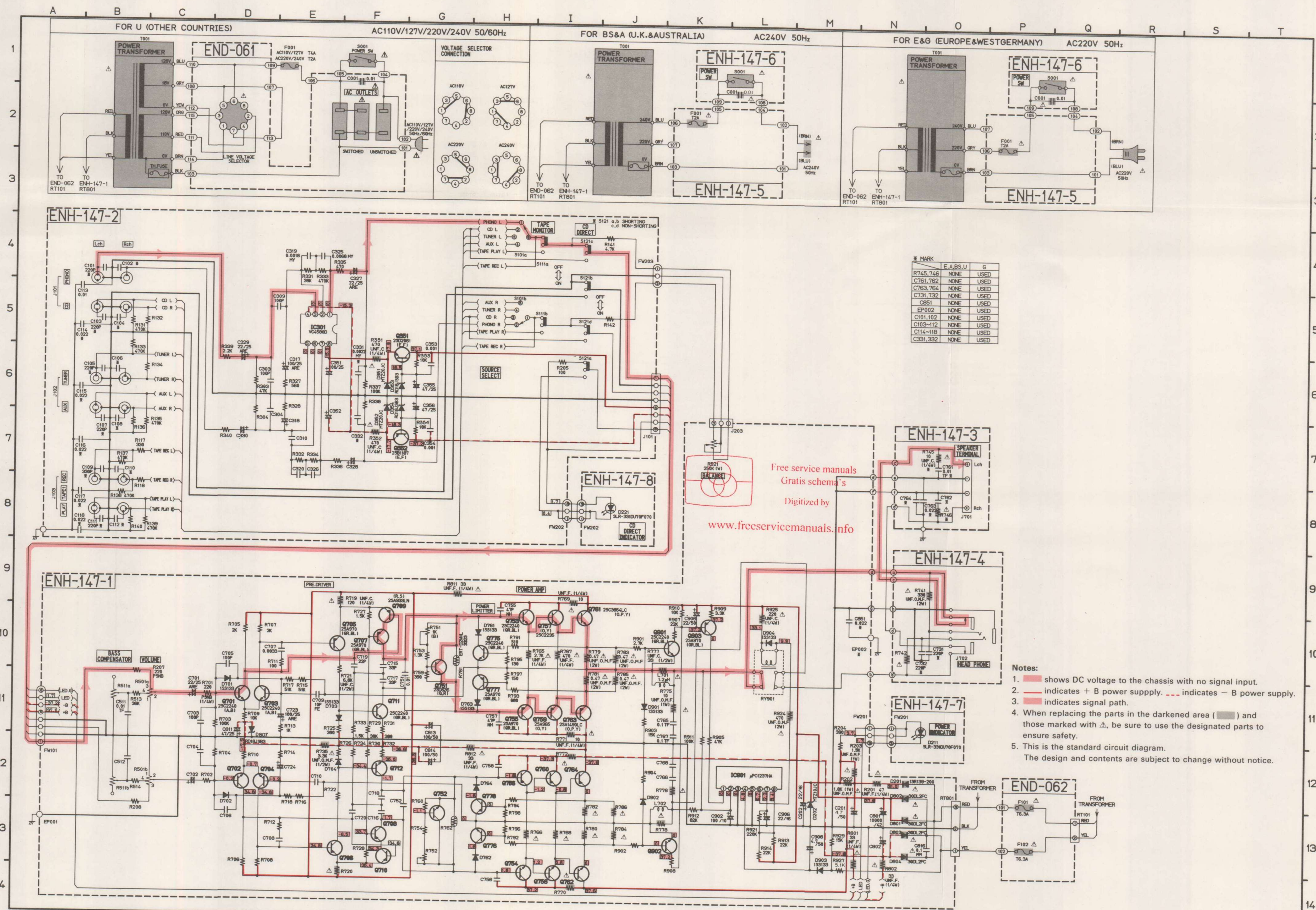
■ VC4580D (IC301) : PHONO Equalizer Amplifier



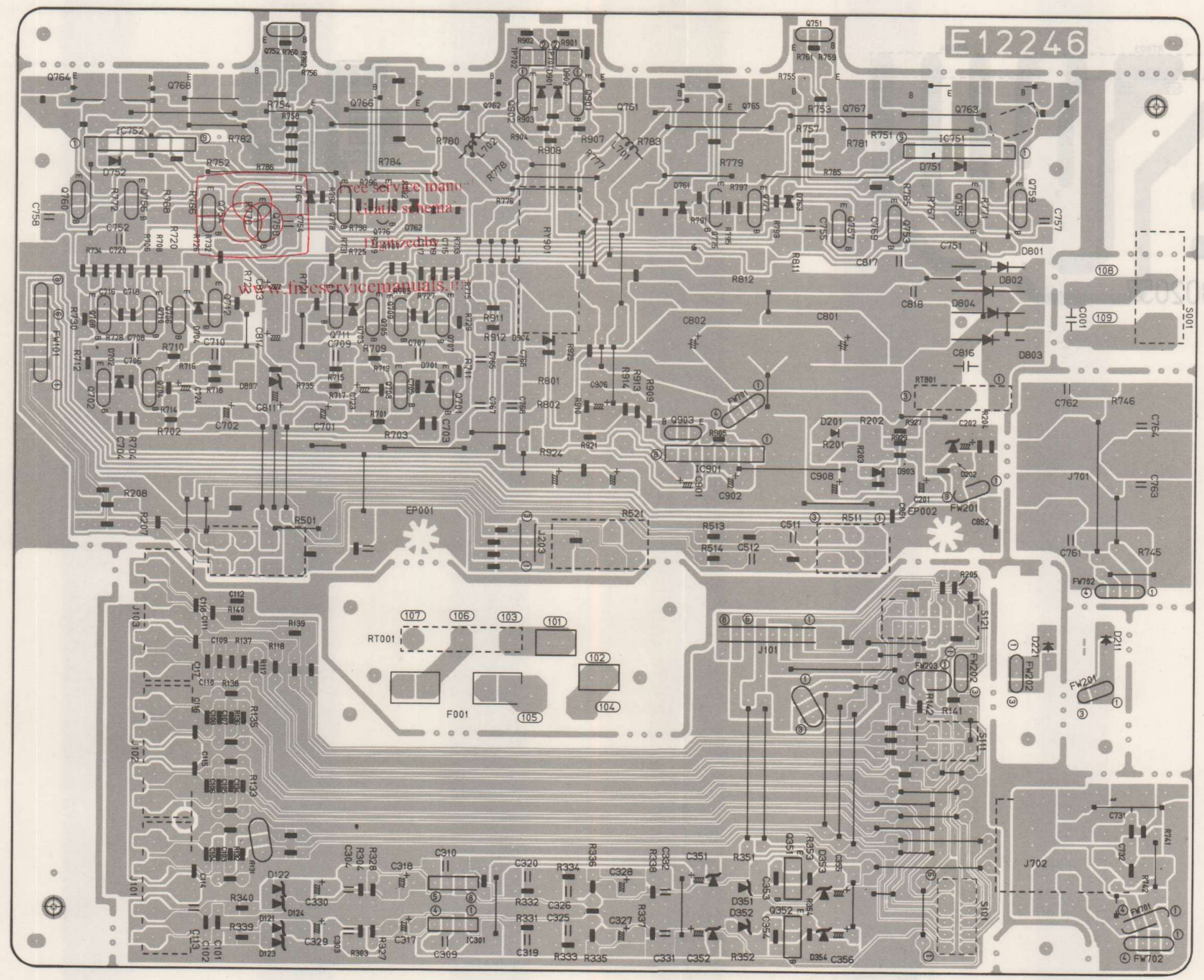
Connection Diagram



Schematic Diagram

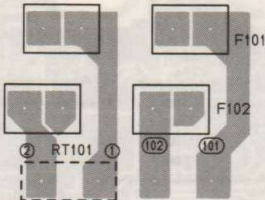
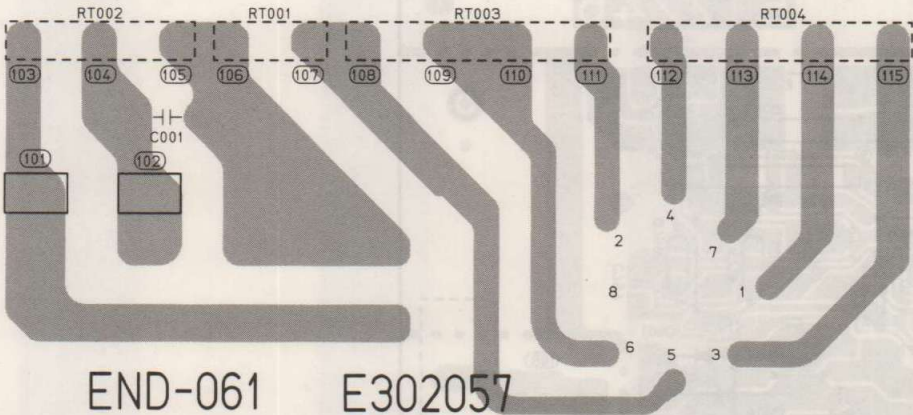


■ Main Amplifier P.C. Board (ENH-147)



■ Voltage Selector P.C. Board

■ Secondary Fuse P.C. Board (END-062)



General Exploded View and Parts List

PARTS LIST

Contents

General Exploded View and Parts List	2-2
Printed Circuit Board Ass'y and Parts List	2-5
■ ENH-147 □ Main Amplifier PC Board Ass'y	2-5
■ END-061 [C] Voltage Selector PC Board Ass'y	2-8
■ END-062 [B] Secondary Fuse PC Board Ass'y	2-8
Accessories List	2-9
Packing Materials and Part Numbers	2-10

General Exploded View and Parts List

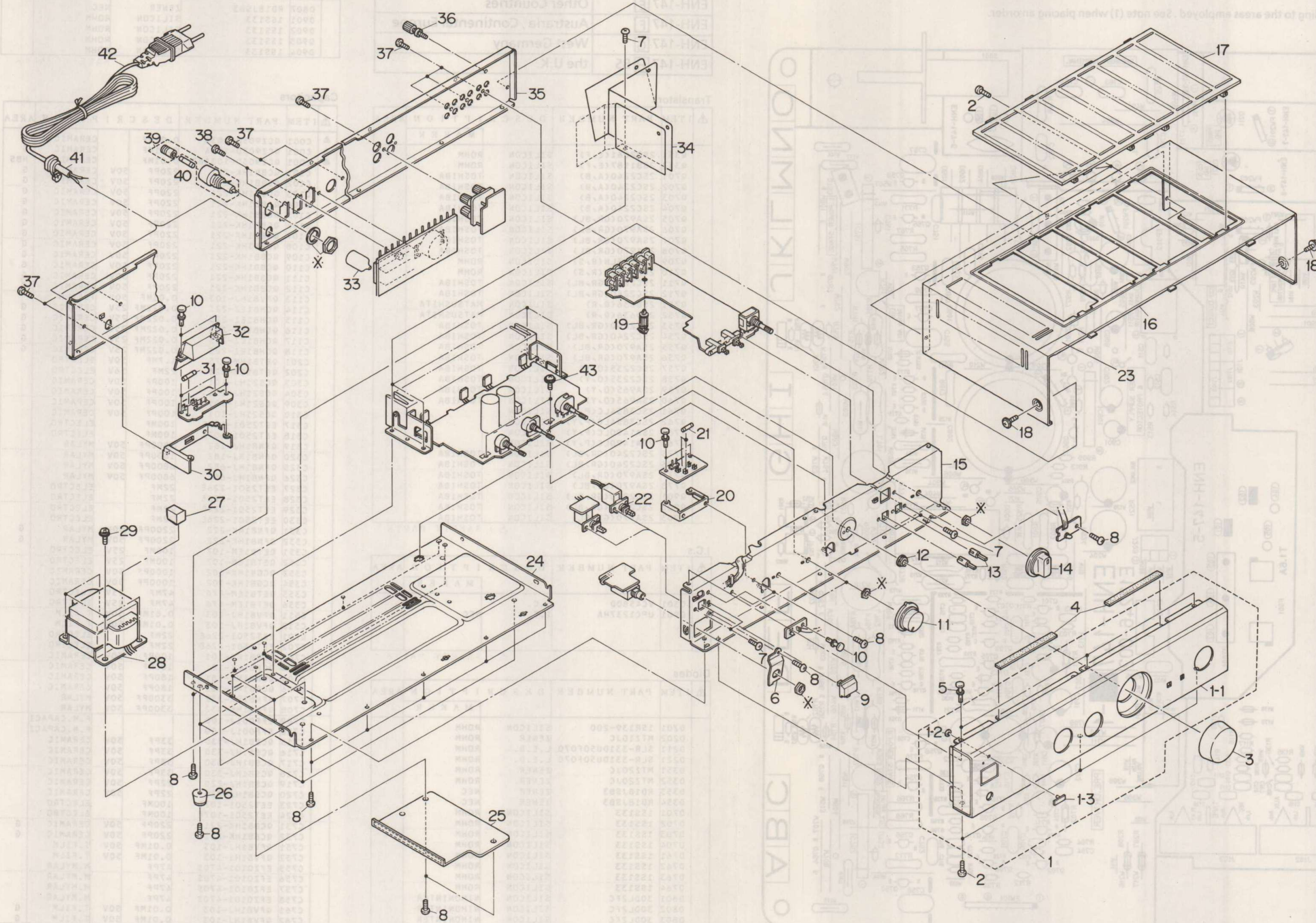
Parts List						
Item	Part Number	Part Name	Q'ty	Description	Areas	
1	EFP-AXA3TNE	Front Panel Ass'y	1			
1-1	E26704-003	Front Panel	1			
1-2	E60912-003	Speed Nut	1			
1-3	E72968-001	JVC Mark	1			
2	SBSG3008M	Screw	6			
3	E305797-003	Volume Knob	1			
4	EXO085007N40S02	Felt Spacer	2			
5	E48729-009	Plastic Rivet	3			
6	E73218-001	Headphone Bracket	1			
7	SBST3006CC	Screw	8			
8	SBSG3008CC	Screw	20		U, E, EF, BS	
9	SBSG3008CC	Screw	18		G, A	
10	E75079-006	Power Button	1			
11	E48729-008	Plastic Rivet	7		Except U	
12	E48729-008	Plastic Rivet	3		U	
13	E305981-004	Knob	2			
14	E71862-001	Volume Nut	1			
15	E74068-002	Push Button	2			
16	E306720-001	Select Knob	1			
17	E12247-001	Front Bracket	1			
18	E26682-001	Metal Cover	1		A, G	
19	E26683-001	Metal Cover	1		E, EF, U, BS	
20	E24134-008	Grill	1		E, EF, U, BS	
21	E61660-004	Special Screw	2			
22	E35422-003	Fastener	1			
23	E75924-001	Circuit Board Bracket	1			
24	QMF51A2-6R3S	Fuse	2	F101, F102	Except BS	
25	QMF51E2-6R3SBS	Fuse	2	F101, F102	BS	
26	QSP1106-004	Power Switch	1		U	
27	E67000-012	Caution Label	1			
28	E11489-004	Chassis Base	1			
29	E306199-001	Protect Sheet	1		E, EF, U, BS	
30	E47227-011	Foot	4			
31	EXO010010N80S02	Spacer	1			
32	ETP1100-30FA	Power Transformer	1		U	
33	ETP1100-30EA	Power Transformer	1		E, EF, A, G	
34	ETP1100-30EABS	Power Transformer	1		BS	
35	E65389-002	Special Screw	4	for Trans		
36	E304756-001	Circuit Board Bracket	1		E, EF, A, G, BS	
37	QMF51A2-2R0S	Fuse	1	F001	E, EF, A, G	
38	QMF51E2-2R0SBS	Fuse	1	F001	BS	
39	E75275-002	Protect Cover	1		E, EF, A, G, BS	
40	E69291-001	Fuse Cover	1			
41	E304787-004	Protect Cover	1		U	
42	E306133-003	Protect Cover	1		E, EF, A, G, BS	
43	E26680-005	Rear Panel	1		U	
44	E26680-007	Rear Panel	1		E, EF, A, G, BS	
45	E303260-208	Rating Label	1		E, EF, G	
46	E70078-001	GND Terminal	1			
47	E73273-003	Special Screw	6			
48	SDSG3008CC	Screw	2		U	
49	QMG0301-003	Fuse Holder	1		U	
50	QMF51A2-2R0S	Fuse	1		U	
51	QHS3876-162	Cord Stopper	1		Except BS	
52	QHS3876-162BS	Cord Stopper	1		BS	
53	QMP7520-200	Power Cord	1		U	
54	QMP3900-200	Power Cord	1		E, EF, G	
55	QMP2560-244	Power Cord	1		A	
56	QMP9017-008BS	Power Cord	1		BS	
57	GBSG3008CC	Screw	2			
58	E61029-005	Number Label	1		A, U, BS	
59	E70028-001	Aproval Label	1		E	
60	E74792-052	FTZ Label	1		G	
61	E60965-001BS	Warning Label	1		BS	

The Marks Designated Areas
A.....Australia
G.....West Germany
E, EF.....Continental Europe

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

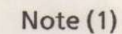
△: Safety parts

Exploded View



■ ENH-147 ☐ Main Amplifier PC Board Ass'y

Note: ENH-147 ☐ varies according to the areas employed . See note (1) when placing an order.



PC Board Ass'y	Designated Areas
ENH-147 E	Other Countries
ENH-147 F	Austraria , Continental Europe
ENH-147 G	West Germany
ENH-147 H BS	the U.K.

Transistors

ITEM	PART NUMBER	DESCRIPTION	AREA
			MAKER
Q351	2SD2061(E,F)	SILICON	ROHM
Q352	2SB1187(E,F)	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(GR,BL)	SILICON	TOSHIBA
Q754	2SC2240(GR,BL)	SILICON	TOSHIBA
Q755	2SA970(GR,BL)	SILICON	TOSHIBA
Q756	2SA970(GR,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(P,Y)	SILICON	
Q762	2SC3854LC(P,Y)	SILICON	
Q763	2SA1490LC(P,Y)	SILICON	
Q764	2SA1490LC(P,Y)	SILICON	
Q775	2SC2240(GR,BL)	SILICON	TOSHIBA
Q776	2SC2240(GR,BL)	SILICON	TOSHIBA
Q777	2SA970(GR,BL)	SILICON	TOSHIBA
Q778	2SA970(GR,BL)	SILICON	TOSHIBA
Q901	2SC2240(GR,BL)	SILICON	TOSHIBA
Q902	2SC2240(GR,BL)	SILICON	TOSHIBA
Q903	2SA970(GR,BL)	SILICON	TOSHIBA

△ : SAFETY PARTS

I.C.s

△	ITEM	PART NUMBER	DESCRIPTION		ARE
				MAKER	
	IC301 IC901	VC4580D UPC1237HA	I.C. I.C.	NEC	

A : SAFETY PARTS

Diodes

ITEM	PART NUMBER	DESCRIPTION		AREA
			MAKER	
D201	1SR139-200	SILICON	ROHM	
D202	MTZ10JC	ZENER	ROHM	
D211	SLR-331DU50F070	L.E.D.	ROHM	
D221	SLR-331DU50F070	L.E.D.	ROHM	
D351	MTZ20JC	ZENER	ROHM	
D352	MTZ20JC	ZENER	ROHM	
D353	RD18JSB3	ZENER	NEC	
D354	RD18JSB3	ZENER	NEC	
D701	1SS133	SILICON	ROHM	
D702	1SS133	SILICON	ROHM	
D703	1SS133	SILICON	ROHM	
D704	1SS133	SILICON	ROHM	
D761	1SS133	SILICON	ROHM	
D762	1SS133	SILICON	ROHM	
D763	1SS133	SILICON	ROHM	
D764	1SS133	SILICON	ROHM	
D801	30DL2FC	SILICON	NIHONINTER	
D802	30DL2FC	SILICON	NIHONINTER	
D803	30DL2FC	SILICON	NIHONINTER	
D804	30DL2FC	SILICON	NIHONINTER	

Diodes

△	ITEM	PART NUMBER	DESCRIPTION		AREA
				MAKER	
	D807	RD18JSB3	ZENER	NEC	
	D901	1SS133	SILICON	ROHM	
	D902	1SS133	SILICON	ROHM	
	D903	1SS133	SILICON	ROHM	
	D904	1SS133	SILICON	ROHM	

Ⓐ : SAFETY PARTS

Capacitors

ITEM	PART NUMBER	DESCRIPTION	AREA
C001	QCZ9050-103A	0.01MF	CERAMIC F
C001	QCZ9050-103A	0.01MF	CERAMIC G
C001	QCZ9050-103ABS	0.01MF	CERAMIC HBS
C101	QCB81HK-221	220PF	50V CERAMIC G
C102	QCB81HK-221	220PF	50V CERAMIC G
C103	QCB81HK-221	220PF	50V CERAMIC G
C104	QCB81HK-221	220PF	50V CERAMIC G
C105	QCB81HK-221	220PF	50V CERAMIC G
C106	QCB81HK-221	220PF	50V CERAMIC G
C107	QCB81HK-221	220PF	50V CERAMIC G
C108	QCB81HK-221	220PF	50V CERAMIC G
C109	QCB81HK-221	220PF	50V CERAMIC G
C110	QCB81HK-221	220PF	50V CERAMIC G
C111	QCB81HK-221	220PF	50V CERAMIC G
C112	QCB81HK-221	220PF	50V CERAMIC G
C113	QFV81HJ-103	0.01MF	50V T.FILM G
C114	QCHB1EZ-223	0.022MF	25V CERAMIC G
C115	QCHB1EZ-223	0.022MF	25V CERAMIC G
C116	QCHB1EZ-223	0.022MF	25V CERAMIC G
C117	QCHB1EZ-223	0.022MF	25V CERAMIC G
C118	QCHB1EZ-223	0.022MF	25V CERAMIC G
C201	QETB1HM-475	4.7MF	50V ELECTRO
C202	QETB1CM-226	22MF	16V ELECTRO
C303	QCS21HJ-101	100PF	50V CERAMIC
C304	QCS21HJ-101	100PF	50V CERAMIC
C309	QCS21HJ-101	100PF	50V CERAMIC
C310	QCS21HJ-101	100PF	50V CERAMIC
C317	EET2501-107E	100MF	ELECTRO
C318	EET2501-107E	100MF	ELECTRO
C319	QFN81HJ-182	1800PF	50V MYLAR
C320	QFN81HJ-182	1800PF	50V MYLAR
C325	QFN81HJ-682	6800PF	50V MYLAR
C326	QFN81HJ-682	6800PF	50V MYLAR
C327	EET2501-226E	22MF	ELECTRO
C328	EET2501-226E	22MF	ELECTRO
C329	EET2501-226E	22MF	ELECTRO
C330	EET2501-226E	22MF	ELECTRO
C331	QFN81HK-222	2200PF	50V MYLAR
C332	QFN81HK-222	2200PF	50V MYLAR
C351	QETB1EM-107	100MF	25V ELECTRO
C352	QETB1EM-107	100MF	25V ELECTRO
C353	QCG81HK-102	1000PF	50V CERAMIC
C354	QCG81HK-102	1000PF	50V CERAMIC
C355	QETB1EM-476	47MF	25V ELECTRO
C356	QETB1EM-476	47MF	25V ELECTRO
C511	QFV81HJ-103	0.01MF	50V T.FILM
C512	QFV81HJ-103	0.01MF	50V T.FILM
C701	EET2501-226E	22MF	ELECTRO
C702	EET2501-226E	22MF	ELECTRO
C703	QCB81HK-101	100PF	50V CERAMIC
C704	QCB81HK-101	100PF	50V CERAMIC
C705	QCB81HK-181	180PF	50V CERAMIC
C706	QCB81HK-181	180PF	50V CERAMIC
C707	QFN81HK-332	3300PF	50V MYLAR
C708	QFN81HK-332	3300PF	50V MYLAR
C709	EFF001J-100		F.M.CAPACI
C710	EFF001J-100		F.M.CAPACI
C715	QCSB1HJ-330	33PF	50V CERAMIC
C716	QCSB1HJ-330	33PF	50V CERAMIC
C717	QCSB1HJ-330	33PF	50V CERAMIC
C718	QCSB1HJ-330	33PF	50V CERAMIC
C719	QCSB1HJ-220	22PF	50V CERAMIC
C720	QCSB1HJ-220	22PF	50V CERAMIC
C723	EET2501-107E	100MF	ELECTRO
C724	EET2501-107E	100MF	ELECTRO
C731	QCB81HK-221	220PF	50V CERAMIC
C732	QCB81HK-221	220PF	50V CERAMIC
C751	QFV81HJ-103	0.01MF	50V T.FILM
C752	QFV81HJ-103	0.01MF	50V T.FILM
C755	EFZ0101-470S	47PF	M.MYLAR
C756	EFZ0101-470S	47PF	M.MYLAR
C757	EFZ0101-470S	47PF	M.MYLAR
C758	EFZ0101-470S	47PF	M.MYLAR
C761	QFV81HJ-103	0.01MF	50V T.FILM
C762	QFV81HJ-103	0.01MF	50V T.FILM

Capacitors

ITEM	PART NUMBER	DESCRIPTION	AREA
C763	QCHB1EZ-223	0.022MF 25V CERAMIC	G
C764	QCHB1EZ-223	0.022MF 25V CERAMIC	G
C765	QFV81HJ-104	0.1MF 50V T.FILM	
C766	QFV81HJ-104	0.1MF 50V T.FILM	
C767	QFV81HJ-104	0.1MF 50V T.FILM	
C768	QFV81HJ-104	0.1MF 50V T.FILM	
C801	EEW4203-109E	10000MF ELECTRO	
C802	EEW4203-109E	10000MF ELECTRO	
C811	QETB1EM-476	47MF 25V ELECTRO	
C813	QETB1HM-107	100MF 50V ELECTRO	
C814	QETB1HM-107	100MF 50V ELECTRO	
C816	QFH42EK-104	0.1MF 250V M.MYLAR	
C851	QCHB1EZ-223	0.022MF 25V CERAMIC	G
C901	QETB1HM-226	22MF 50V ELECTRO	
C902	QETB1AM-107	100MF 10V ELECTRO	
C906	QETB1HM-226	22MF 50V ELECTRO	
C908	QETB1HM-475	4.7MF 50V ELECTRO	

Δ : SAFETY PARTS

Resistors

ITEM	PART NUMBER	DESCRIPTION	AREA
R117	QRD167J-331	330 1/6W CARBON	
R118	QRD167J-331	330 1/6W CARBON	
R131	QRD167J-474	470K 1/6W CARBON	
R132	QRD167J-474	470K 1/6W CARBON	
R133	QRD167J-474	470K 1/6W CARBON	
R134	QRD167J-474	470K 1/6W CARBON	
R135	QRD167J-474	470K 1/6W CARBON	
R136	QRD167J-474	470K 1/6W CARBON	
R137	QRD167J-474	470K 1/6W CARBON	
R138	QRD167J-474	470K 1/6W CARBON	
R139	QRD167J-474	470K 1/6W CARBON	
R140	QRD167J-474	470K 1/6W CARBON	
R141	QRD167J-472	4.7K 1/6W CARBON	
R142	QRD167J-472	4.7K 1/6W CARBON	
R201	QRZ0077-470	47 1/4W FUSIBLE	
R202	QRG012J-152A	1.5K 1W O.M.FILM	
R203	QRG012J-182A	1.8K 1W O.M.FILM	
R204	QRD167J-561	560 1/6W CARBON	
R205	QRD167J-101	100 1/6W CARBON	
R207	ERD141J-221S	220 1/4W CARBON	
R208	ERD141J-221S	220 1/4W CARBON	
R303	QRD167J-473	47K 1/6W CARBON	
R304	QRD167J-473	47K 1/6W CARBON	
R327	QRD167J-621	620 1/6W CARBON	
R328	QRD167J-621	620 1/6W CARBON	
R331	QRD167J-393	39K 1/6W CARBON	
R332	QRD167J-393	39K 1/6W CARBON	
R333	QRD167J-474	470K 1/6W CARBON	
R334	QRD167J-474	470K 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	
R339	QRD167J-222	2.2K 1/6W CARBON	
R340	QRD167J-222	2.2K 1/6W CARBON	
R351	QRD14CJ-471S	470 1/4W UNF. CARBON	
R352	QRD14CJ-471S	470 1/4W UNF. CARBON	
R353	QRD167J-103	10K 1/6W CARBON	
R354	QRD167J-103	10K 1/6W CARBON	
R501	QVDB83B-EF5B	250K VARIABLE	
R511	QVDB98A-E15B	100K VARIABLE	
R513	QRD167J-363	36K 1/6W CARBON	
R514	QRD167J-363	36K 1/6W CARBON	
R521	QVDA98W-EF5D	250K VARIABLE	
R701	ERD141J-221S	220 1/4W CARBON	
R702	ERD141J-221S	220 1/4W CARBON	
R703	QRD167J-104	100K 1/6W CARBON	
R704	QRD167J-104	100K 1/6W CARBON	
R705	QRD167J-222	2.2K 1/6W CARBON	
R706	QRD167J-222	2.2K 1/6W CARBON	
R707	QRD167J-222	2.2K 1/6W CARBON	
R708	QRD167J-222	2.2K 1/6W CARBON	
R709	QRD167J-103	10K 1/6W CARBON	
R710	QRD167J-103	10K 1/6W CARBON	
R711	QRD167J-101	100 1/6W CARBON	
R712	QRD167J-101	100 1/6W CARBON	
R713	QRD167J-102	1K 1/6W CARBON	
R714	QRD167J-102	1K 1/6W CARBON	
R715	QRD167J-513	51K 1/6W CARBON	
R716	QRD167J-513	51K 1/6W CARBON	

Resistors

ITEM	PART NUMBER	DESCRIPTION	AREA
R717	QRD167J-513	51K 1/6W CARBON	
R718	QRD167J-513	51K 1/6W CARBON	
R719	QRD14CJ-121S	120 1/4W UNF. CARBON	
R720	QRD14CJ-121S	120 1/4W UNF. CARBON	
R721	QRD125J-682	6.8K 1/2W UNF. CARBON	
R722	QRD125J-682	6.8K 1/2W UNF. CARBON	
R725	QRD167J-391	390 1/6W CARBON	
R726	QRD167J-391	390 1/6W CARBON	
R727	QRD167J-152	1.5K 1/6W CARBON	
R728	QRD167J-152	1.5K 1/6W CARBON	
R729	QRD167J-303	30K 1/6W CARBON	
R730	QRD167J-303	30K 1/6W CARBON	
R731	QRD167J-391	390 1/6W CARBON	
R732	QRD167J-391	390 1/6W CARBON	
R733	QRD167J-152	1.5K 1/6W CARBON	
R734	QRD167J-152	1.5K 1/6W CARBON	
R735	QRD125J-332	3.3K 1/2W UNF. CARBON	
R741	QRG022J-331A	330 2W O.M.FILM	
R742	QRG022J-331A	330 2W O.M.FILM	
R745	QRD14CJ-100S	10 1/4W UNF. CARBON	G
R746	QRD14CJ-100S	10 1/4W UNF. CARBON	G
R751	QVPE601-102	1K 0.15W VARIABLE	
R752	QVPE601-102	1K 0.15W VARIABLE	
R753	QRD167J-132	1.3K 1/6W CARBON	
R754	QRD167J-132	1.3K 1/6W CARBON	
R759	QRD167J-391	390 1/6W CARBON	
R760	QRD167J-391	390 1/6W CARBON	
R761	ERT-D2WHL332S	THERMISTOR	
R762	ERT-D2WHL332S	THERMISTOR	
R765	QRZ0077-272	2.7K 1/4W FUSIBLE	
R766	QRZ0077-272	2.7K 1/4W FUSIBLE	
R767	QRZ0077-471	470 1/4W FUSIBLE	
R768	QRZ0077-471	470 1/4W FUSIBLE	
R769	QRZ0077-100	10 1/4W FUSIBLE	
R770	QRZ0077-100	10 1/4W FUSIBLE	
R771	QRZ0077-100	10 1/4W FUSIBLE	
R772	QRZ0077-100	10 1/4W FUSIBLE	
R775	QRG022J-100A	10 2W O.M.FILM	
R776	QRG022J-100A	10 2W O.M.FILM	
R777	QRD125J-330	33 1/2W UNF. CARBON	
R778	QRD125J-330	33 1/2W UNF. CARBON	
R779	QRX022J-R47A	0.47 2W M.FILM	
R780	QRX022J-R47A	0.47 2W M.FILM	
R781	QRX022J-R47A	0.47 2W M.FILM	
R782	QRX022J-R47A	0.47 2W M.FILM	
R783	QRX022J-R47A	0.47 2W M.FILM	
R784	QRX022J-R47A	0.47 2W M.FILM	
R785	QRX022J-R47A	0.47 2W M.FILM	
R786	QRX022J-R47A	0.47 2W M.FILM	
R791	QRD167J-511	510 1/6W CARBON	
R792	QRD167J-511	510 1/6W CARBON	
R793	QRD167J-681	680 1/6W CARBON	
R794	QRD167J-681	680 1/6W CARBON	
R795	QRD167J-131	130 1/6W CARBON	
R796	QRD167J-131	130 1/6W CARBON	
R797	QRD167J-151	150 1/6W CARBON	
R798	QRD167J-151	150 1/6W CARBON	
R801	QRZ0077-330	33 1/4W FUSIBLE	
R802	QRZ0077-330	33 1/4W FUSIBLE	
R811	QRZ0077-330	33 1/4W FUSIBLE	
R812	QRZ0077-330	33 1/4W FUSIBLE	
R901	QRD167J-272	2.7K 1/6W CARBON	
R902	QRD167J-272	2.7K 1/6W CARBON	
R903	QRD167J-153	15K 1/6W CARBON	
R904	QRD167J-153	15K 1/6W CARBON	
R905	QRD167J-473	47K 1/6W CARBON	
R907	QRD167J-223	22K 1/6W CARBON	
R908	QRD167J-223	22K 1/6W CARBON	
R909	QRD167J-332	3.3K 1/6W CARBON	
R910	QRD167J-103	10K 1/6W CARBON	
R911	QRD167J-104	100K 1/6W CARBON	
R912	QRD167J-823	82K 1/6W CARBON	
R913	QRD167J-223	22K 1/6W CARBON	
R914	QRD167J-223	22K 1/6W CARBON	
R921	QRD167J-244	240K 1/6W CARBON	
R924	QRG022J-471A	470 2W O.M.FILM	
R925	QRD14CJ-221S	220 1/4W UNF. CARBON	
R927	QRD167J-512	5.1K 1/6W CARBON	
R929	QRD167J-153	15K 1/6W CARBON	

Δ : SAFETY PARTS

Others

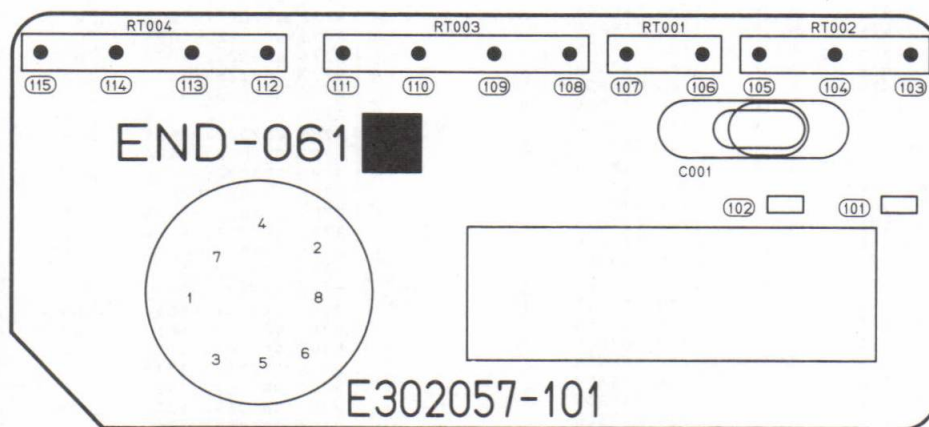
ITEM	PART NUMBER	DESCRIPTION	AREA
	EMG7331-002	FUSE CLIP	F
	EMG7331-002	FUSE CLIP	F
	EMG7331-002	FUSE CLIP	G
	EMG7331-002	FUSE CLIP	G
	EMG7331-002	FUSE CLIP	HBS
	EMG7331-002	FUSE CLIP	HBS
	E12246-002	CIRCUIT BOARD	E
	E12246-002	CIRCUIT BOARD	F
	E12246-002	CIRCUIT BOARD	G
	E12246-002BS	CIRCUIT BOARD	HBS
	E306727-001	BRACKET	
	E306727-002	BRACKET	
	E306739-003	HEAT SINK	
	E65508-002	TAB	F
	E65508-002	TAB	G
	E65508-002	TAB	HBS
	E67132-T2R0	FUSE LABEL	F
	E67132-T2R0	FUSE LABEL	G
	E67132-T2R0	FUSE LABEL	HBS
	E73525-001	SCREW	
	GBSG3008CC	SCREW	
	GBSG3008CC	SCREW	
J101	EMN00TV-405A	4P PIN JACK	
J102	EMN00TV-402A	4P PIN JACK	
J103	EMN00TV-402A	4P PIN JACK	

Others

ITEM	PART NUMBER	DESCRIPTION	AREA
J203	EMV7122-003	CONNECTOR	
J701	EMB00TP-403A	SPEAKER TERMINAL	HBS
J701	EMB00TP-403B	SPEAKER TERMINAL	E
J701	EMB00TP-403B	SPEAKER TERMINAL	F
J701	EMB00TP-403B	SPEAKER TERMINAL	G
J702	QMS6312-025	HEADPHONE JACK	
L701	EQL0101-1R2	INDUCTOR	
L702	EQL0101-1R2	INDUCTOR	
Δ S001	QSP1106-004	POWER SWITCH	F
Δ S001	QSP1106-004	POWER SWITCH	G
Δ S001	QSP4C11-E03BS	PUSH SWITCH	HBS
S101	QSR2B24-E01	ROTARY SWITCH	
S111	QST9281-E01	PUSH SWITCH	
EP001	E70859-001	EARTH PLATE	
EP002	E70859-001	EARTH PLATE	G
FW101	EWR38B-08LST	FLAT WIRE	
FW201	EWR33B-20SST	FLAT WIRE	
FW202	EWR33B-10SST	FLAT WIRE	
FW203	EWR23C-16LN	FLAT WIRE	
JT101	EMV7122-003	CONNECTOR	
JT103	EMV7122-005	CONNECTOR	
RT001	E67764-203	WRAPPING TERMINAL	F
RT001	E67764-203	WRAPPING TERMINAL	G
RT001	E67764-203	WRAPPING TERMINAL	HBS
RT801	E67764-103	WRAPPING TERMINAL	
RY901	ESK5D24-218	RELAY	
TP701	QMV5005-002K	PLUG ASSY	
TP702	QMV5005-002K	PLUG ASSY	

Δ : SAFETY PARTS

■ END-061 C Voltage Selector PC Board Ass'y (for Other Countries Only)



Capacitors

ITEM	PART NUMBER	DESCRIPTION	AREA
Δ C001	QC29018-103	0.01MF CERAMIC	

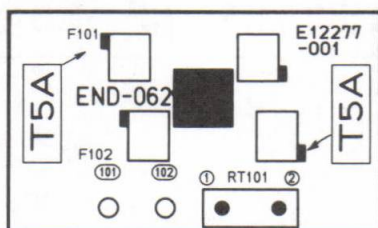
Δ : SAFETY PARTS

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	
Δ	QMC0637-004	AC OUTLET	
Δ	QSR0085-018	VOLTAGE SELECTOR	

Δ : SAFETY PARTS

■ END-062 B Secondary Fuse PC Board Ass'y



Others

ITEM	PART NUMBER	DESCRIPTION	AREA
	EMG7331-002	FUSE CLIP	
	EMG7331-002	FUSE CLIP	
	E12277-001(S)	CIRCUIT BOARD	
	E67132-T6R3	FUSE LABEL	
RT101	E67764-102	WRAPPING TERMINAL	

Δ : SAFETY PARTS

Accessories List

	Part Number	Part Name	Q'ty	Description	Areas
	E30580-1600B E30580-1600BBS BT20117 BT20029C BT20119	Instruction Book Instruction Book Warranty Card Warranty Card Warranty Card	1 1 1 1 1	for Austraria for New Zealand	Except BS BS G A A
	BT20060 BT20066A QZL1008-001 QMF51A2-4R0S E67142-T4R0	Warranty Card EEC Agency FTZ Information Sheet Fuse Fuse Label	1 1 1 1 1		BS BS G U U
	E6581-4 E04056 E35497-015 E41202-2 E41202-2B	Envelope Siemens Plug Caution Sheet Envelope Envelope	1 1 1 1 1	for Fuse 220V	U U U Except BS BS

 : Safety parts

The Marks Designated Areas

A.....Australia

G.....West Germany

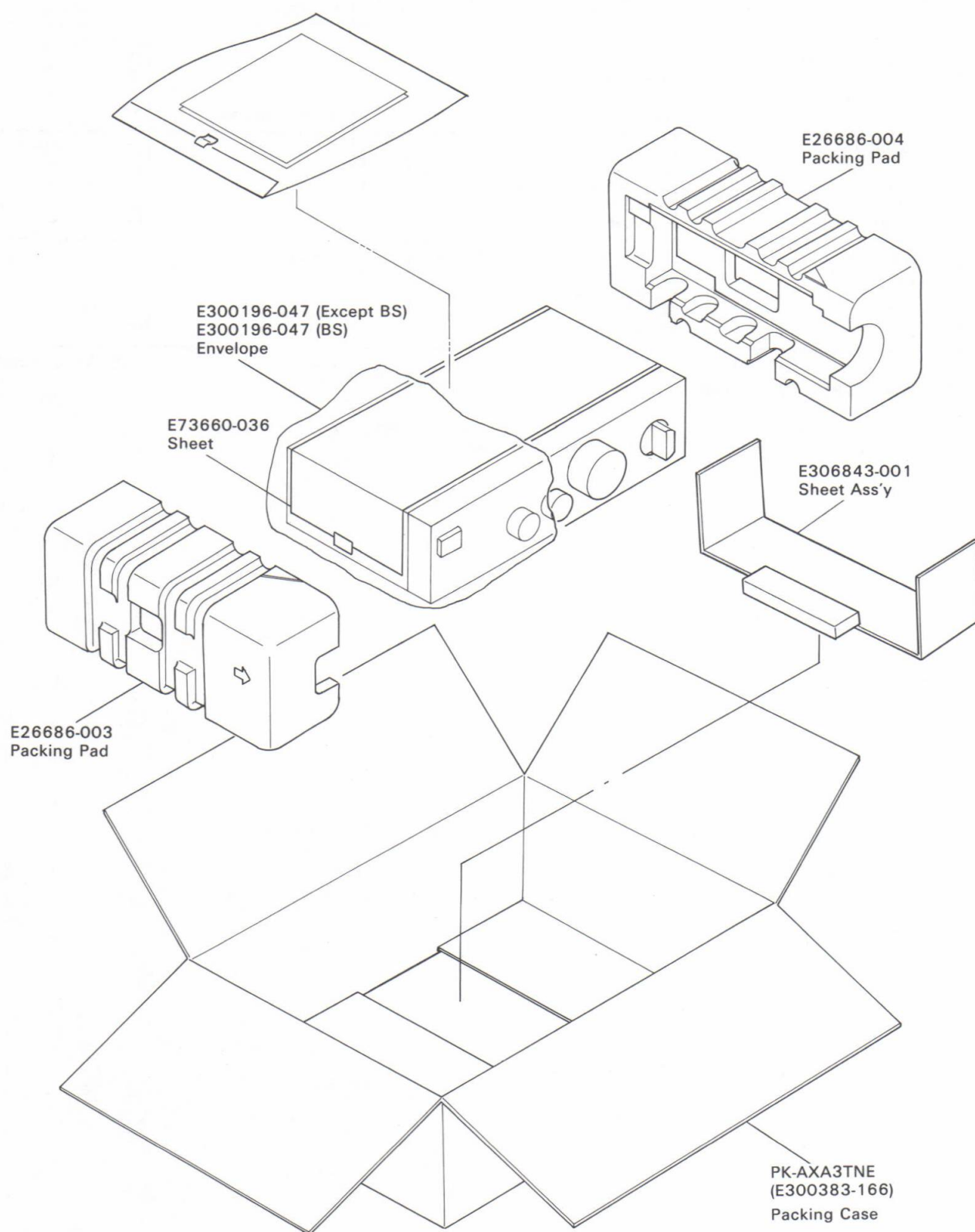
E, EF.....Continental Europe

BS.....the U.K.

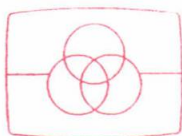
U.....Other Countries

No mark indicates all areas.

Packing Materials and Part Numbers



– MEMO –



Free service manuals

Gratis schema's

Digitized by

www.freeservicemanuals.info

JVC

VICTOR COMPANY OF JAPAN LIMITED
AUDIO PRODUCTS DIVISION, YAMATO PLANT, 1644, SHIMOTSURUMA, YAMATO-SHI, KANAGAWA-KEN, 242, JAPAN

