

# 16K29 REO INTEGRATED AMPLIFIER

## A-87/97

### SERVICE MANUAL

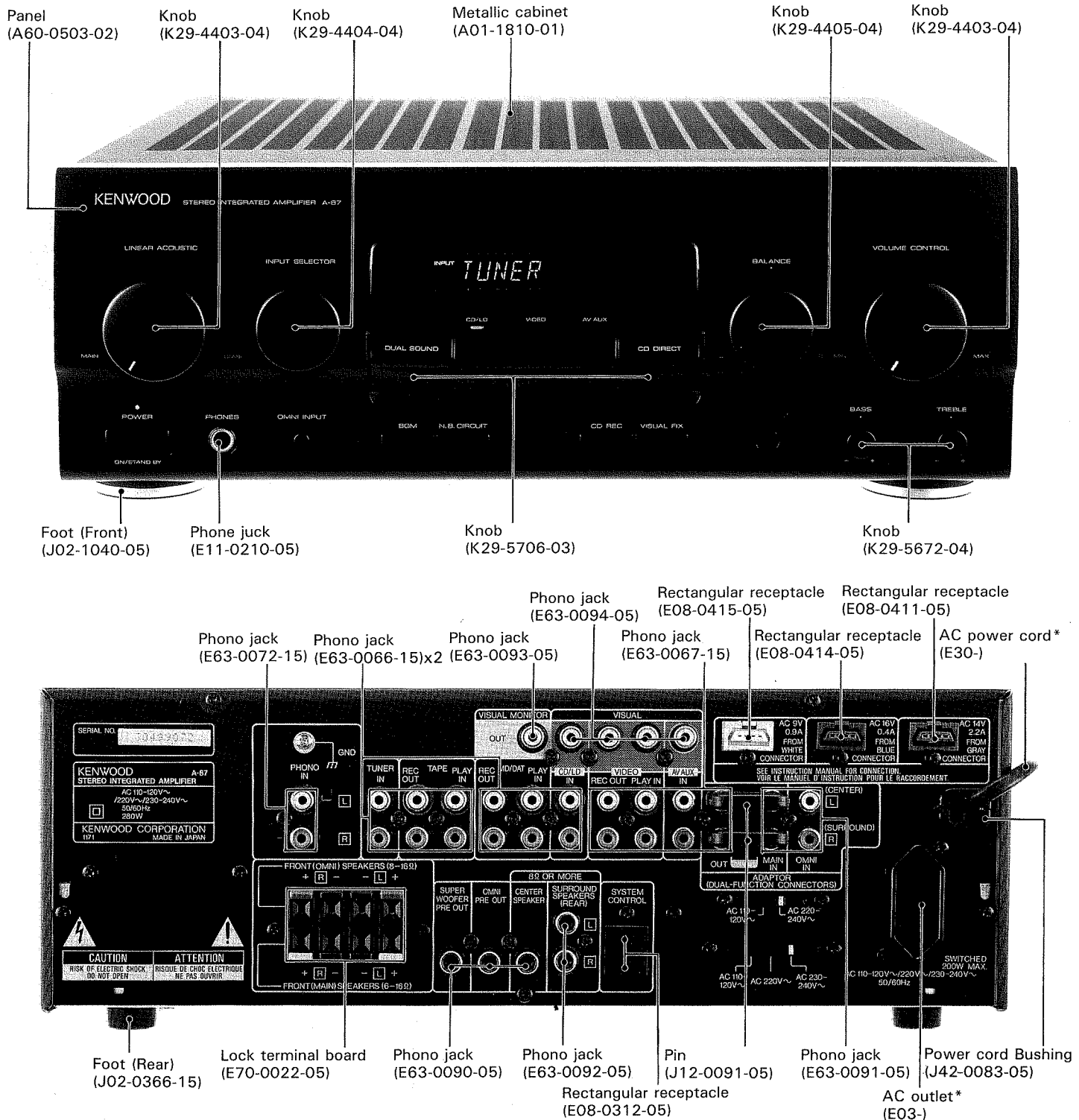
(M-97/97M/99LD/99M)

H 11 781 H 11 79

# KENWOOD

©1993-7 PRINTED IN JAPAN  
B51-4735-00 (S) 2318

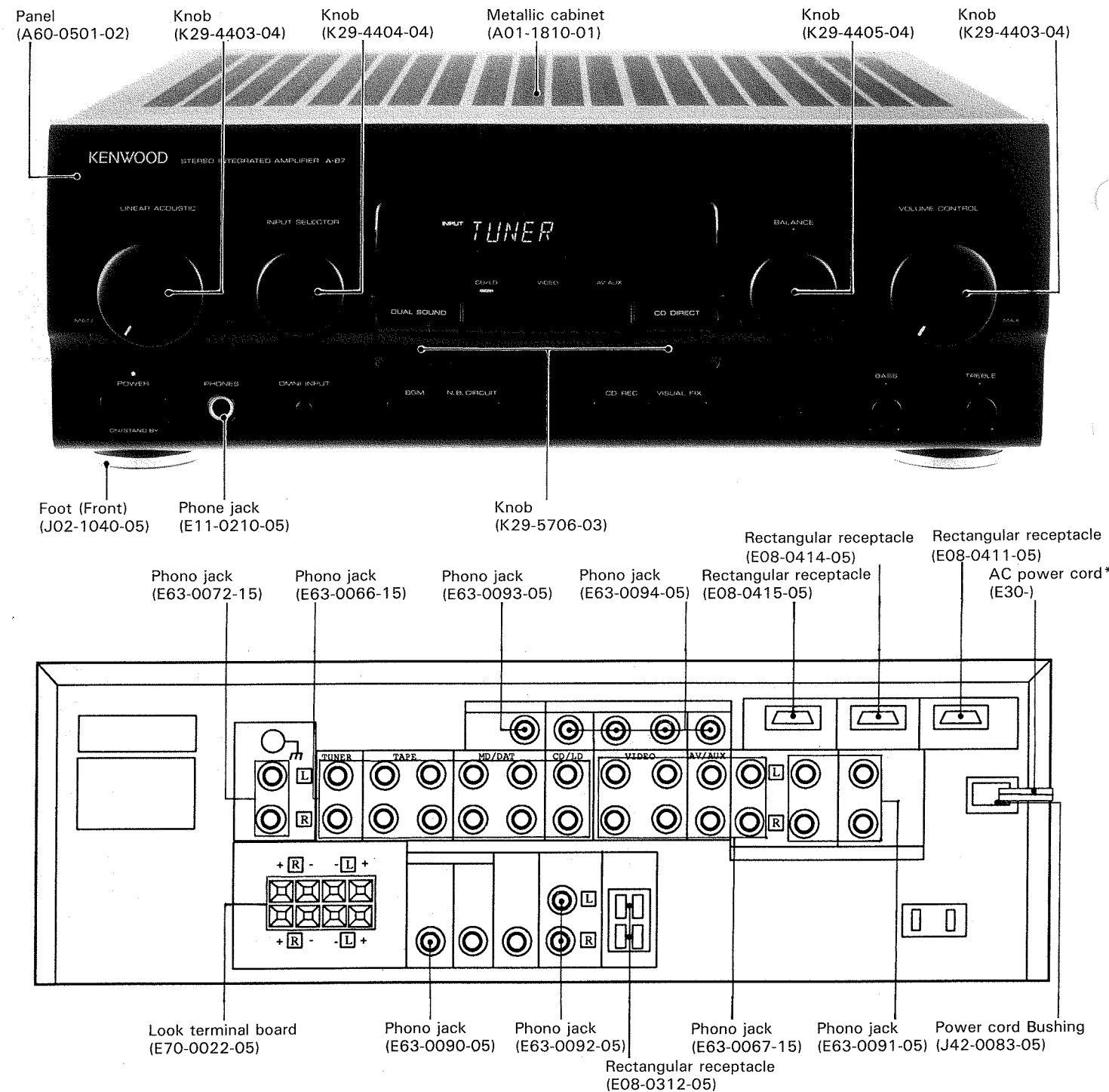
[A-87]



\*Refer to parts list on page 22.

CONTENTS

|                           |    |                            |            |
|---------------------------|----|----------------------------|------------|
| REMOTE CONTROL UNIT ..... | 3  | SCHEMATIC DIAGRAM.....     | 13         |
| BLOCK DIAGRAM .....       | 4  | EXPLODED VIEW (UNIT) ..... | 21         |
| CIRCUIT DESCRIPTION ..... | 5  | PARTS LIST .....           | 22         |
| WIRING DIAGRAM.....       | 7  | SPECIFICATIONS.....        | BACK COVER |
| PC BOARD.....             | 11 |                            |            |

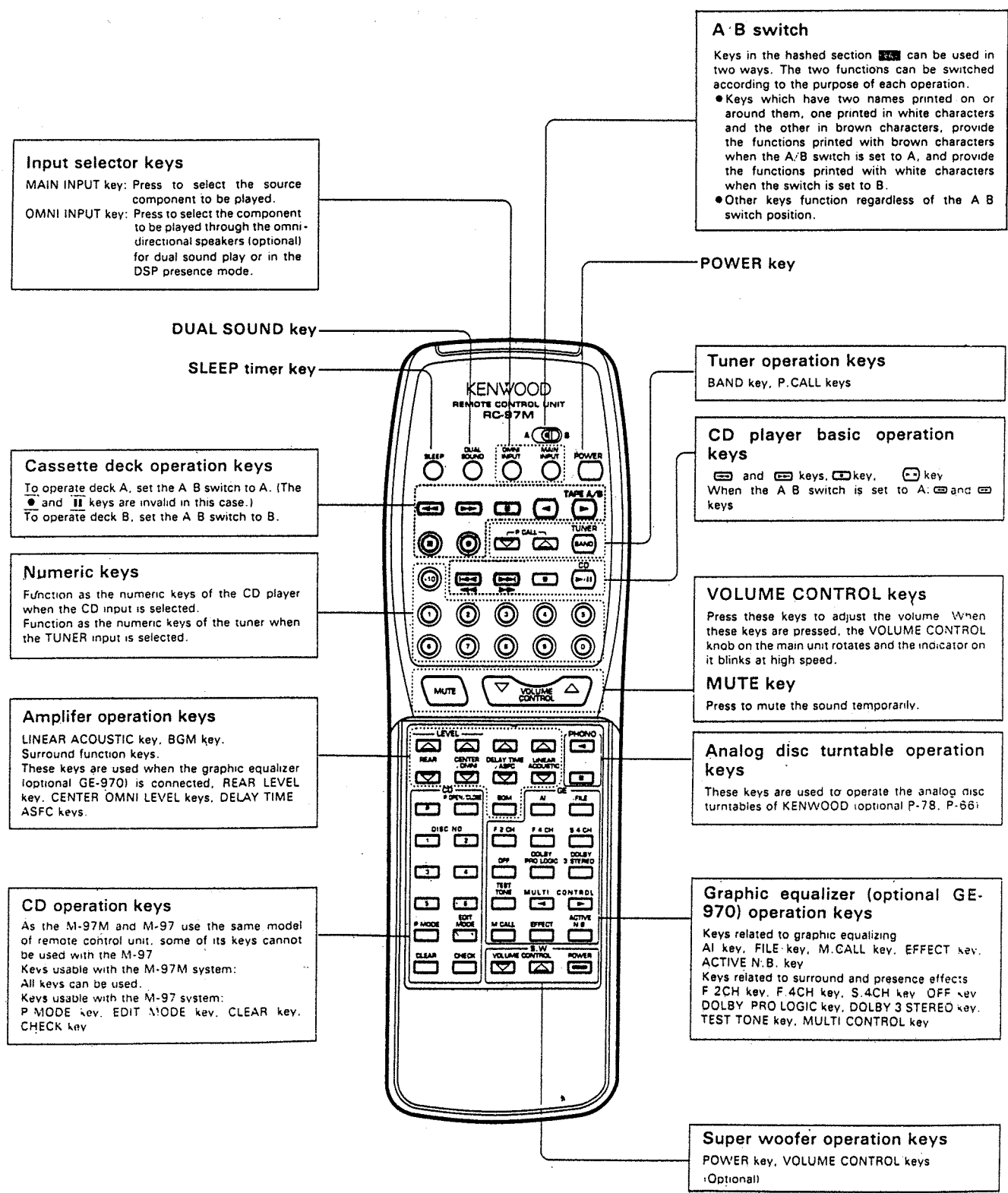


INSTRUCTION MANUAL  
B60-1351-00 ENGLISH  
B60-1352-00 SPANISH M  
B60-1353-00 CHINESE M

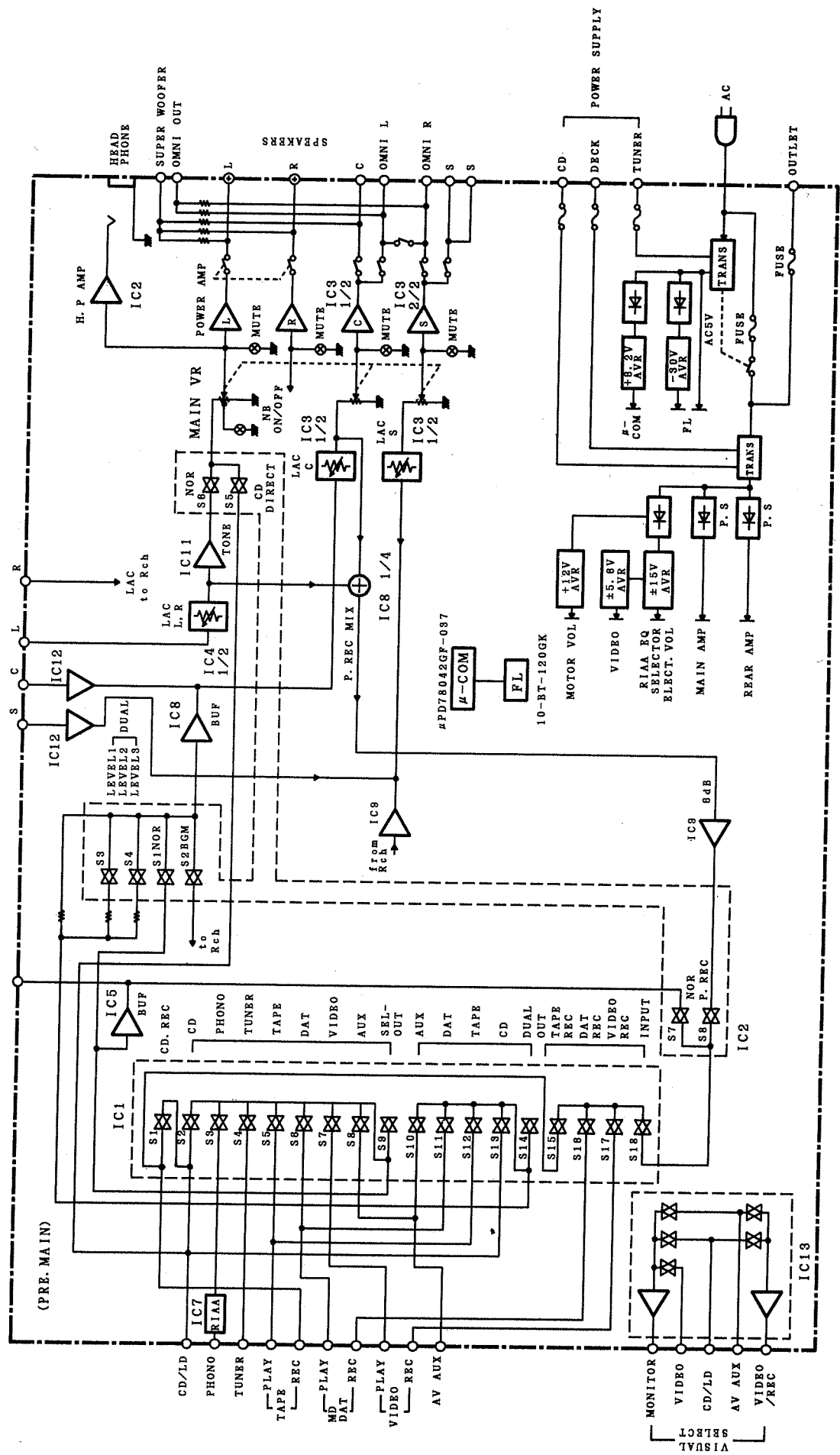
\*Refer to parts list on page 22.

REMOTE CONTROL UNIT

REMOTE CONTROL UNIT (X94-1050-11)  
BATTERY COVER (F07-0721-23)



BLOCK DIAGRAM



## CIRCUIT DESCRIPTION

**Microprocessor  $\mu$ PD78042GF-037-3B9 (X11: IC-101)**

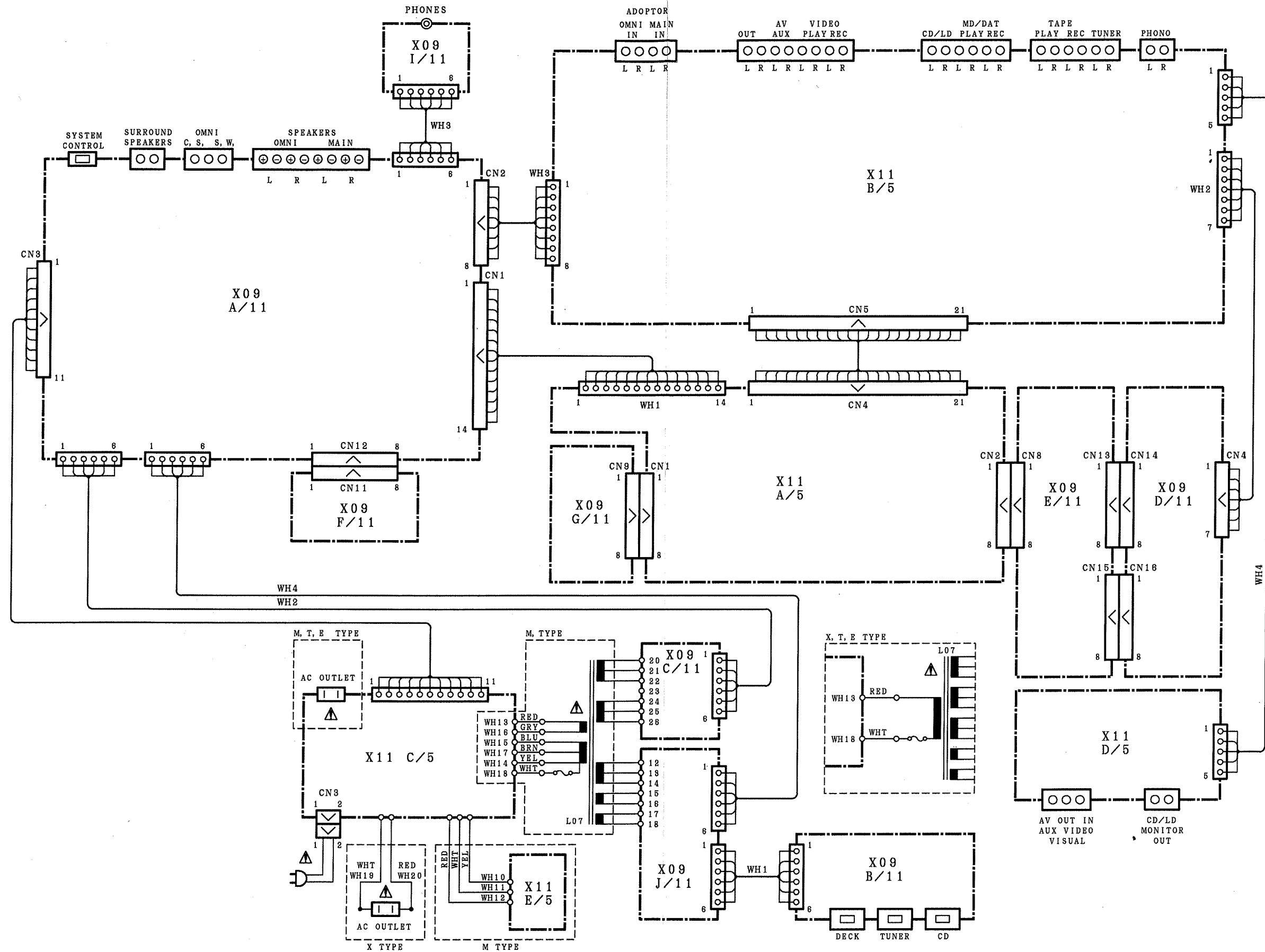
- ④ Check of the operations of all circuits by means of the main unit keys  
The MUTING function, which is carried out only with the remote controller, can be operated also with the N.B key of the main unit during the test mode by means of the main unit keys.
- ⑤ MUTE signal output  
Ordinary operation should be carried out during the test mode by means of the main unit keys.

### (1) Setting method

- The equipment is initialized by plugging the power cord in the AC electrical outlet while pressing the POWER key.
  - The equipment is initialized when the power cord is unplugged and then plugged in the AC electrical outlet during the test mode by means of the main unit keys and the test mode by means of serial communication.
- (2) Contents
- All functions are initialized. (Including test mode).

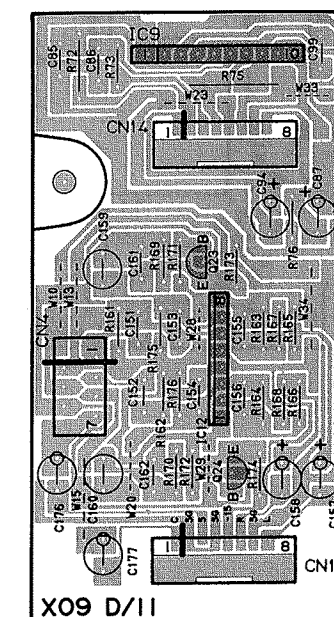
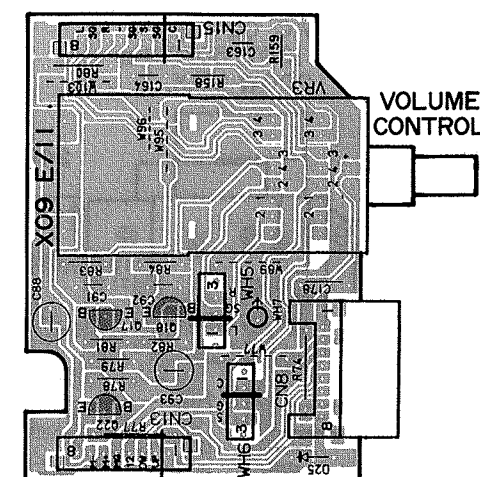
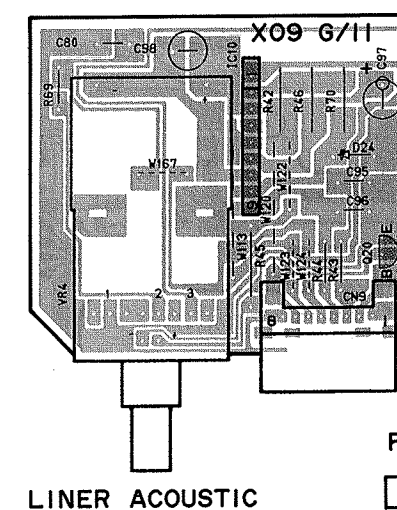
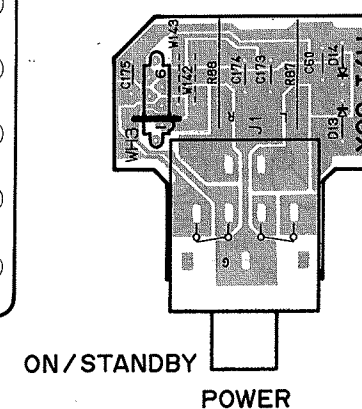
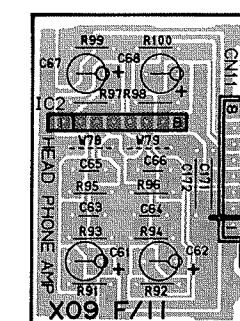
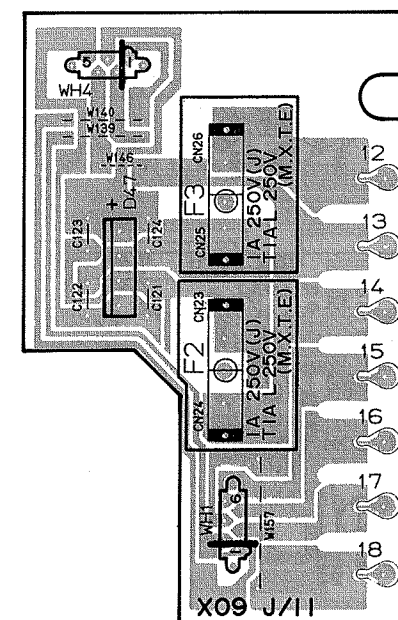
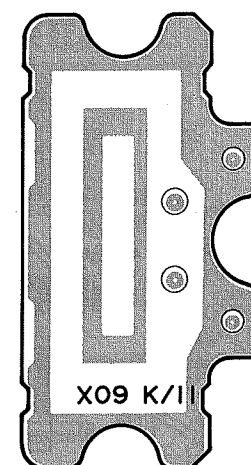
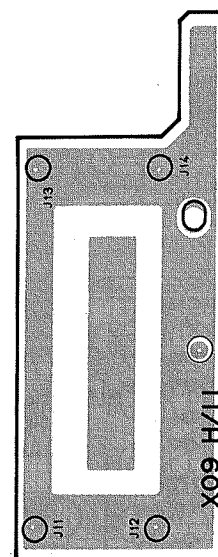
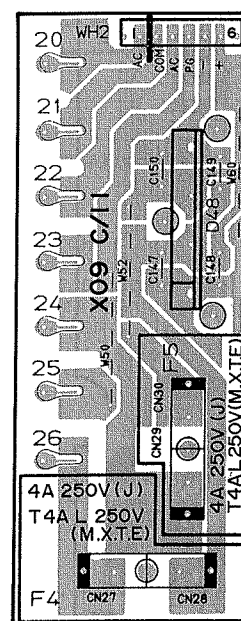
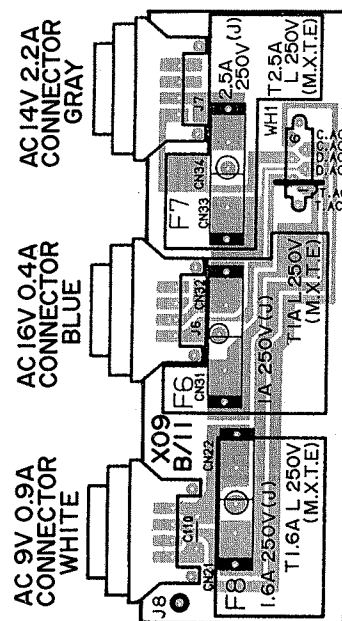
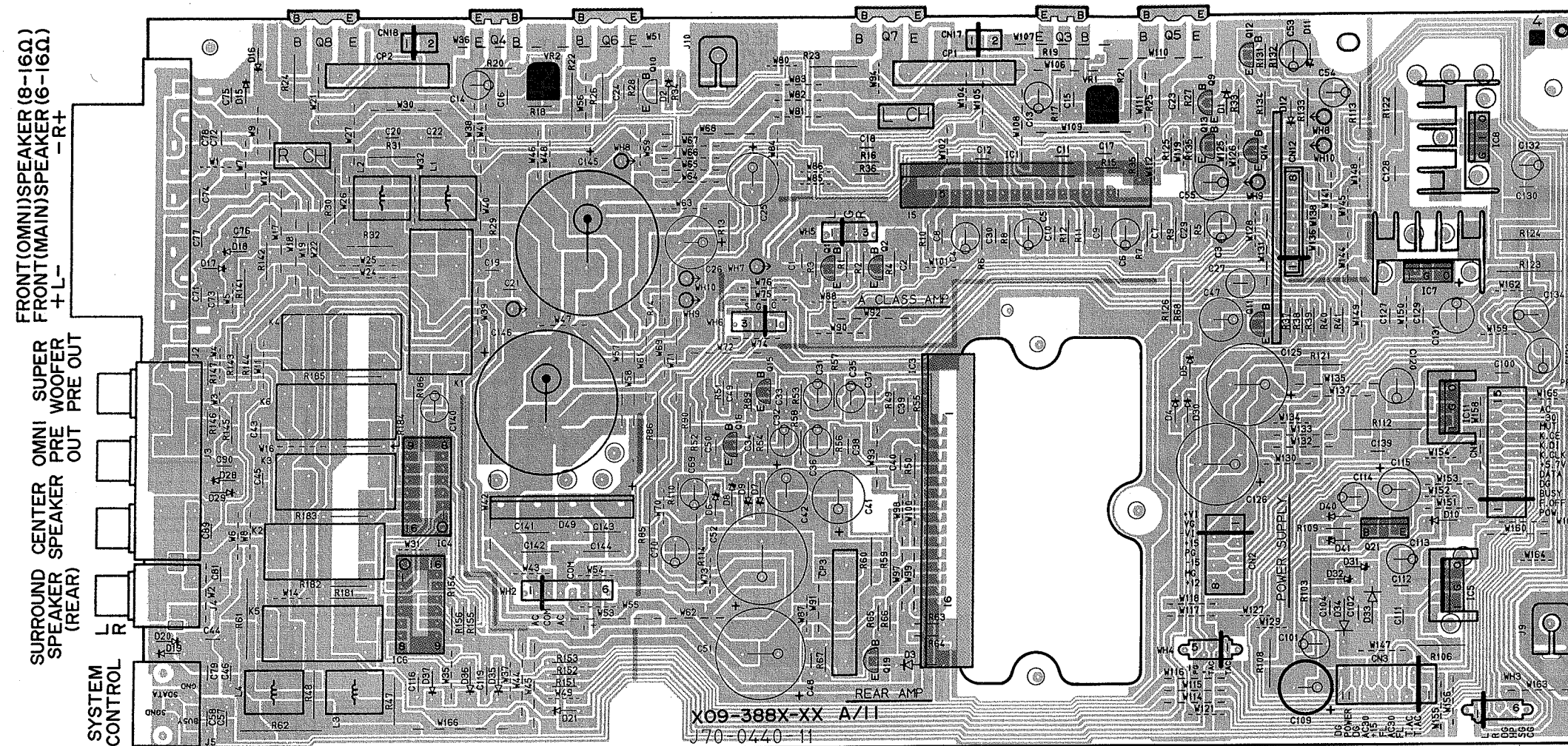
# A-87/97      A-87/97

## WIRING DIAGRAM



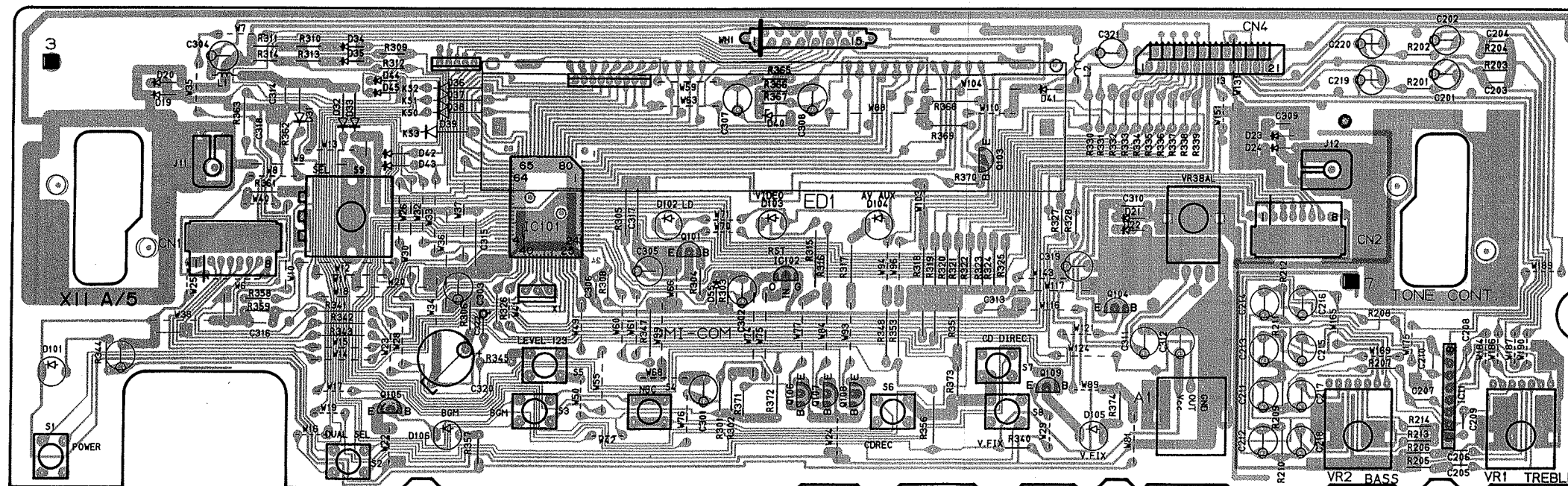
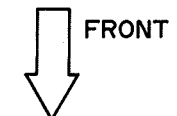


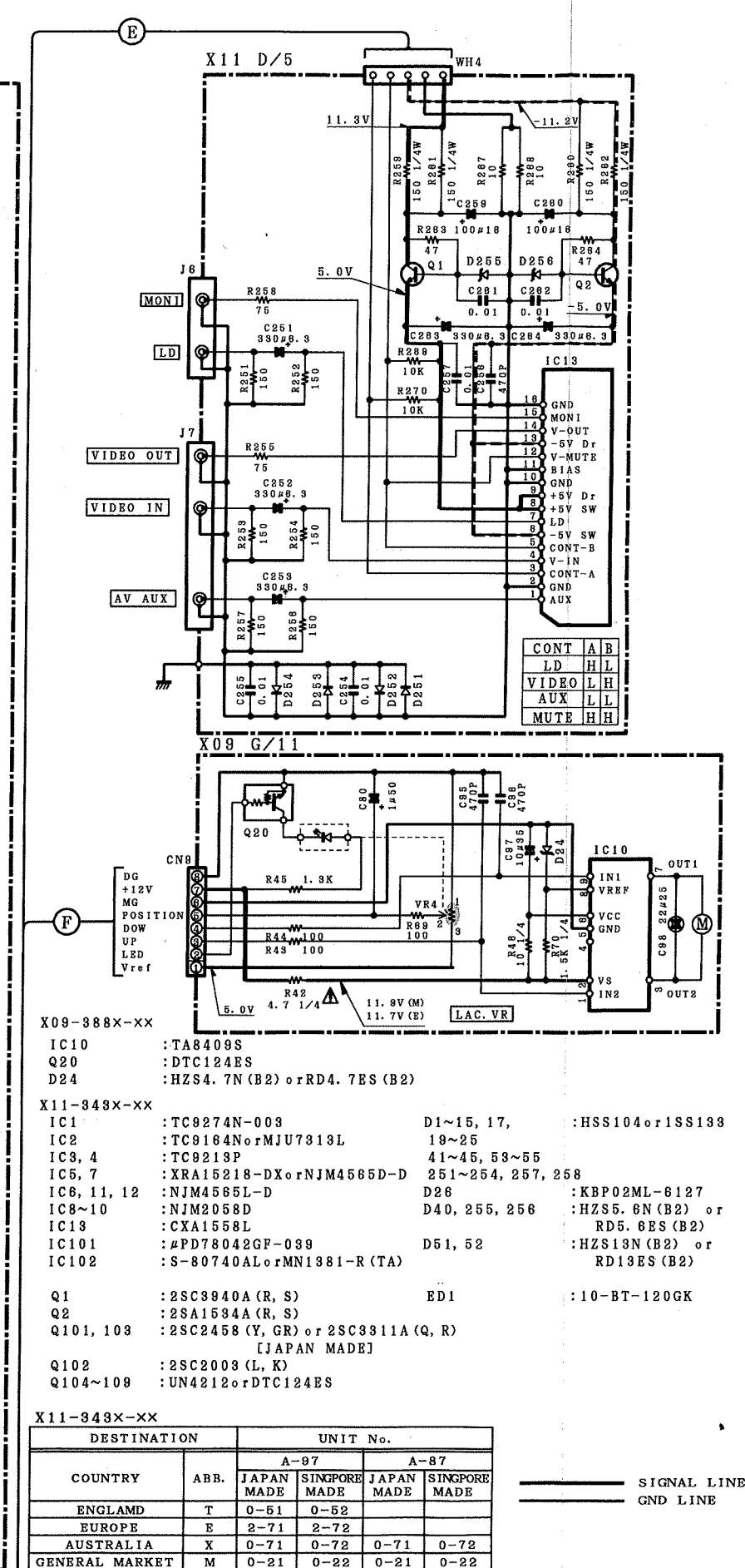
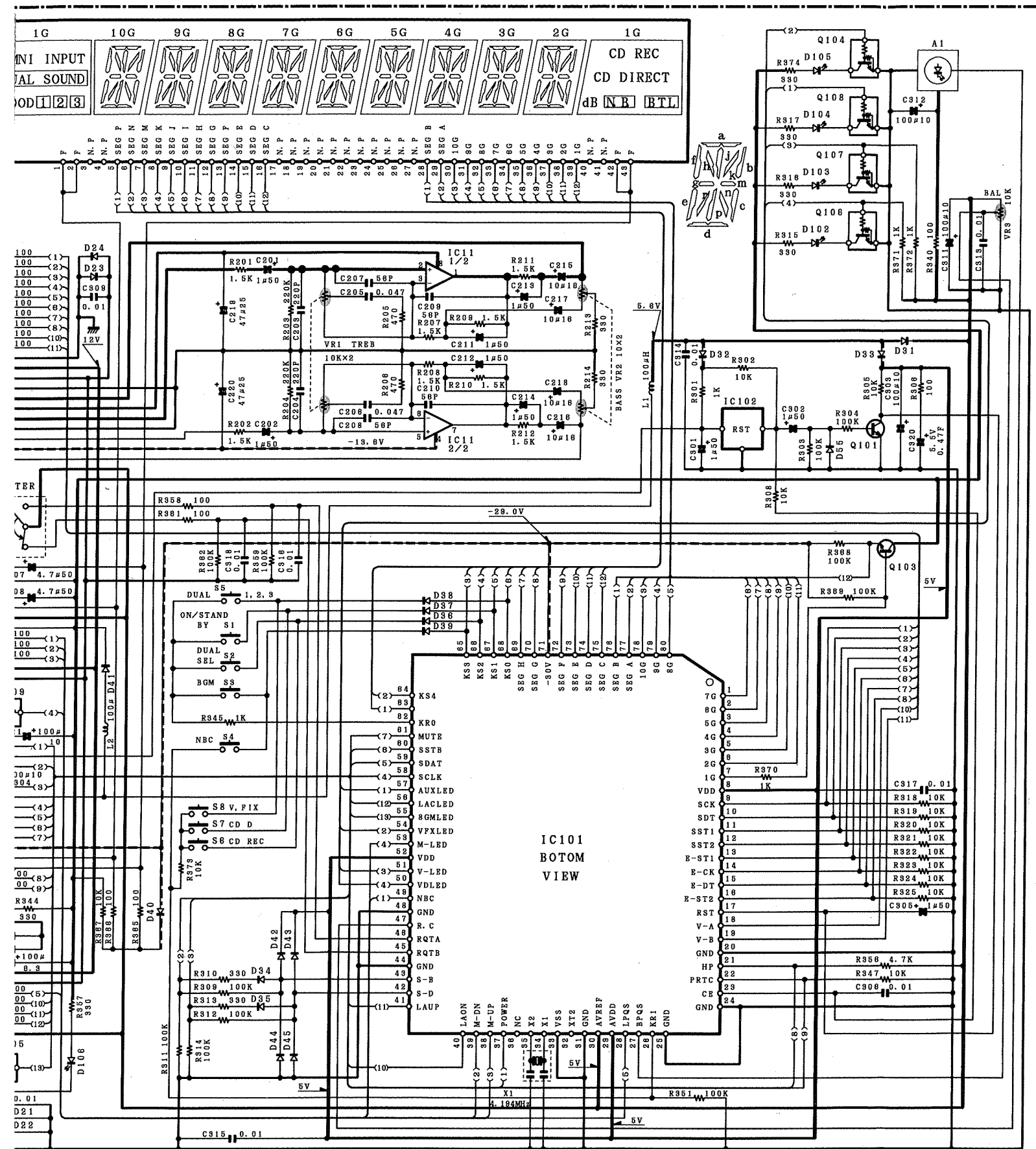
# PC BOARD (Component side view) AUDIO UNIT (X09-388X-XX)



Refer to the schematic diagram for the values of resistors and capacitors.







**X09-388X-XX**

IC10 : TA8409S  
Q20 : DTC124ES  
D24 : HZS4. 7N (B2) or RD4. 7ES (B2)

**X11-349X-XX**

IC1 : TC9274N-003  
IC2 : TC9164N or MJU7313L  
IC3, 4 : TC9213P  
IC5, 7 : XRA15218-DX or NJM4565D-D  
IC8, 11, 12 : NJM4565L-D  
IC8~10 : NJM2058D  
IC13 : CXA1558L  
IC101 :  $\mu$ PD78042GF-099  
IC102 : S-80740A or MN1381-R (TA)

Q1 : 2SC3940A (R, S)  
Q2 : 2SA1534A (R, S)  
Q101, 103 : 2SC2458 (Y, GR) or 2SC3911A (Q, R) [JAPAN MADE]  
Q102 : 2SC2003 (L, K)  
Q104~109 : UN4212 or DTC124ES

D1~15, 17, 18~25, 41~45, 53~55, 251~254, 257, 258, D26, D40, 255, 256, D51, 52, D55, 6N (B2) or RD5, 6ES (B2), HZS13N (B2) or RD13ES (B2)

ED1 : 10-BT-120GK

**X11-349X-XX**

| DESTINATION    |      | UNIT No.   |                |            |                |
|----------------|------|------------|----------------|------------|----------------|
|                |      | A-97       |                | A-87       |                |
| COUNTRY        | ABB. | JAPAN MADE | SINGAPORE MADE | JAPAN MADE | SINGAPORE MADE |
| ENGLAND        | T    | 0-51       | 0-52           |            |                |
| EUROPE         | E    | 2-71       | 2-72           |            |                |
| AUSTRALIA      | X    | 0-71       | 0-72           | 0-71       | 0-72           |
| GENERAL MARKET | M    | 0-21       | 0-22           | 0-21       | 0-22           |

**SIGNAL LINE**  
**GND LINE**

- 2SA1123 2SC2631
- 2SA1534A 2SC2878
- 2SC1845 2SC3940A
- 2SC2003
- DTC124ES 2SC1740S
- 2SA1048 2SC2458
- 2SA933S
- 2SC4137
- 2SB1556 2SD2385
- 2SB1370
- UN4212 2SC3311A
- 2SA1309A
- NJM4565D-D
- NJM2058D
- BA12003 TC9213P
- LC7824
- TA8409S
- NJM4580L-D
- NJU7313L
- TC9164N
- TA7812S
- TA7815S
- XRA17812T
- XRA17815T
- NJM4556L
- NJM4565L-D
- S-80740AL

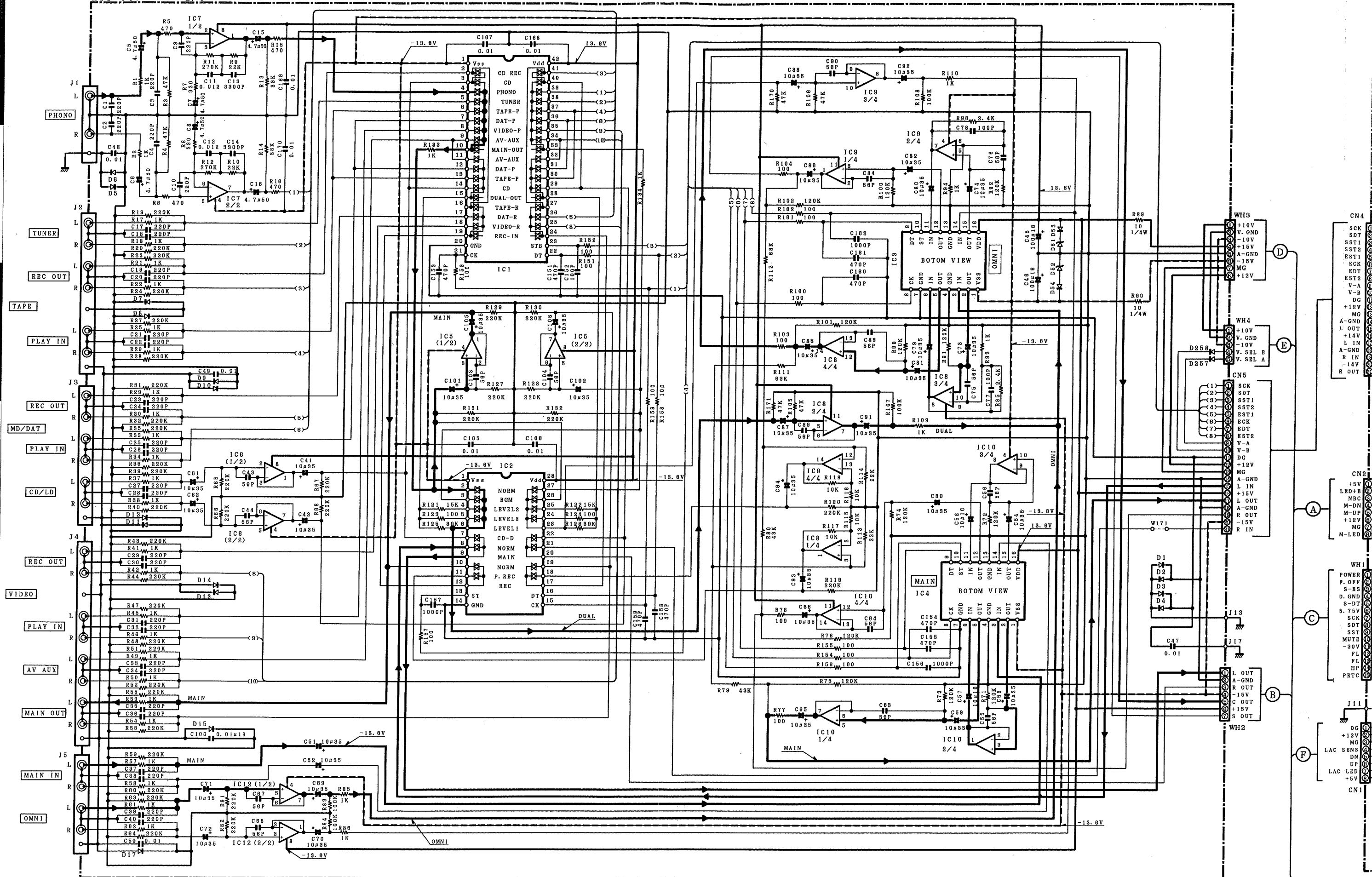
impedance voltmeter lightly due to variations. Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

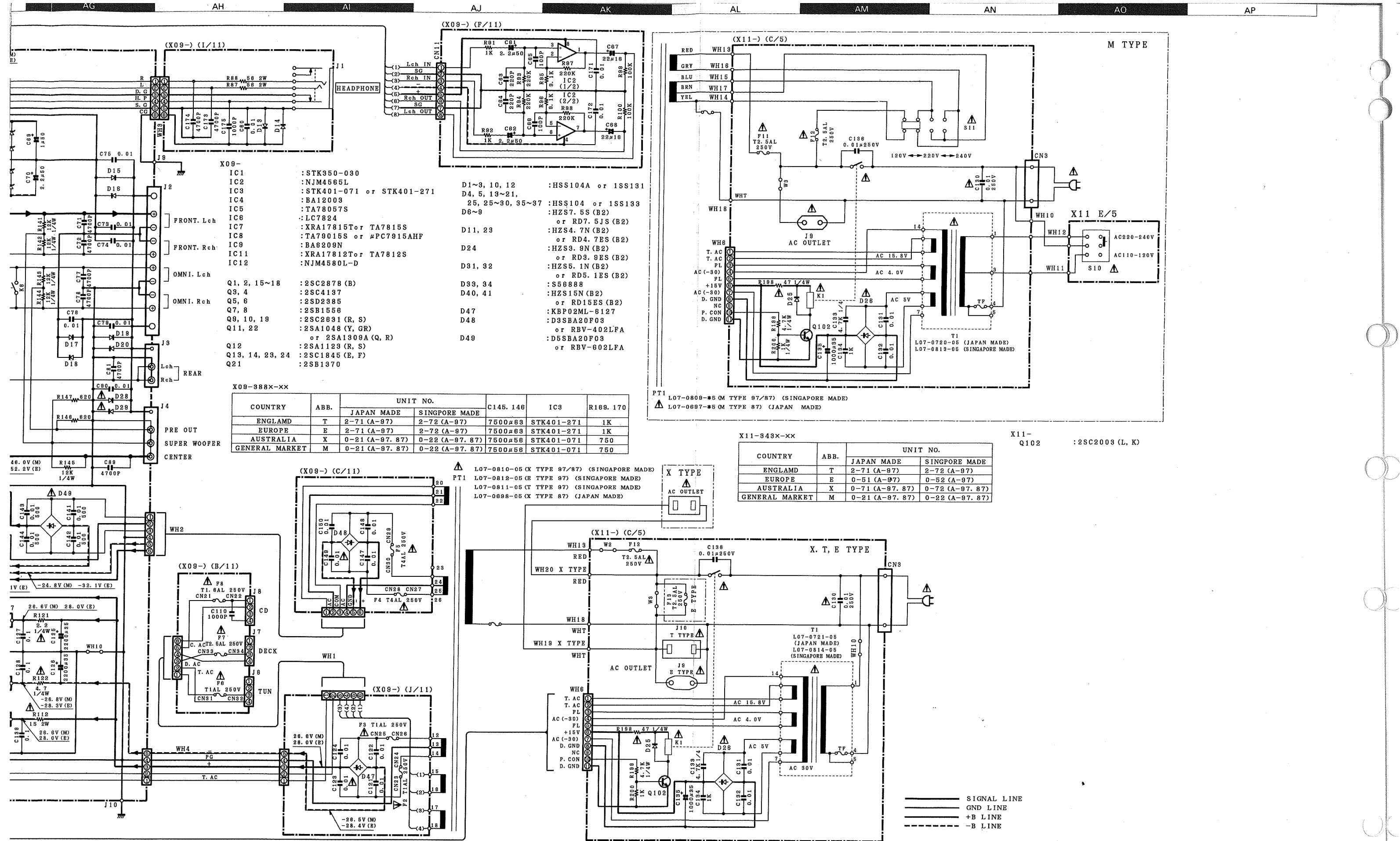
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  Indicates safety critical components. To reduce the

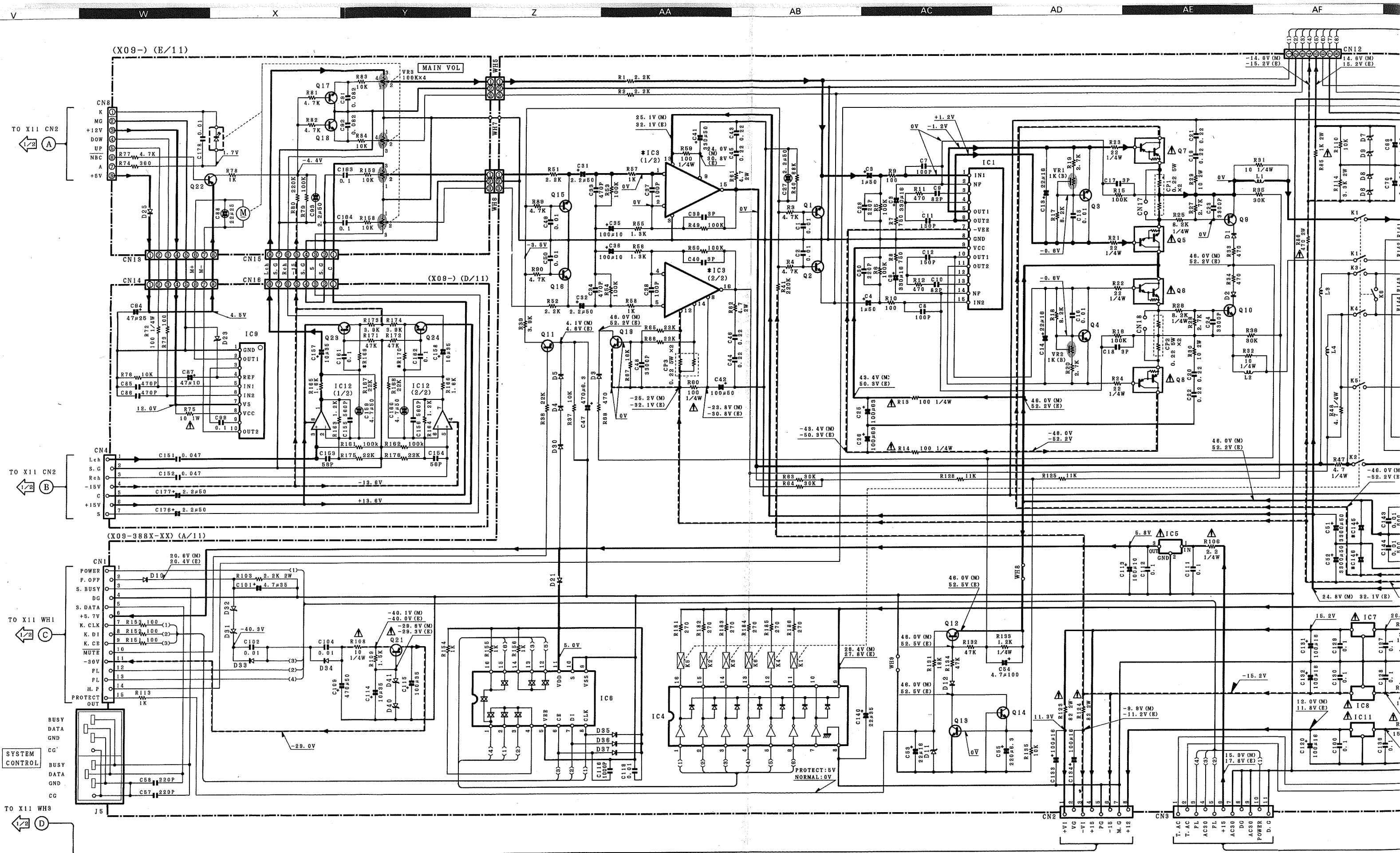
risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.





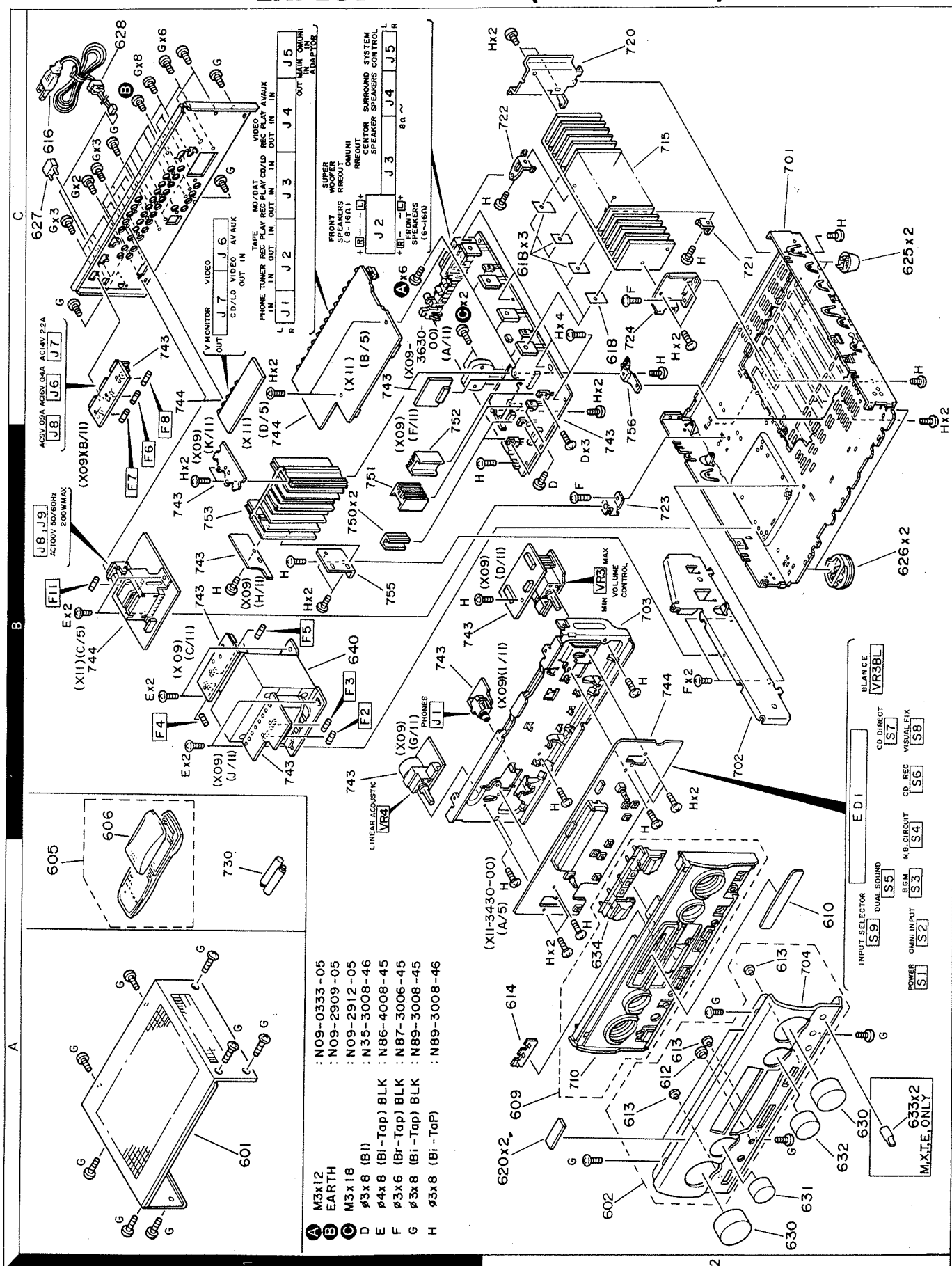
DC voltages are as measured with  
ter with no signal input. Values m  
tions between individual instrum







## EXPLODED VIEW (MAIN UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

## PARTS LIST

## UNIT LIST(A-87)

| DESTINATION       |   | AUDIO UNIT  | CONTROL UNIT |
|-------------------|---|-------------|--------------|
| JAPAN<br>MADE     | M | X09-3880-21 | X11-3430-21  |
|                   | X | X09-3880-21 | X11-3430-71  |
| SINGAPORE<br>MADE | M | X09-3880-22 | X11-3430-22  |
|                   | X | X09-3880-22 | X11-3430-72  |

## A-97

| DESTINATION       |   | AUDIO UNIT  | CONTROL UNIT |
|-------------------|---|-------------|--------------|
| JAPAN<br>MADE     | J | X09-3880-00 | X11-3430-00  |
|                   | M | X09-3880-21 | X11-3430-21  |
|                   | X | X09-3880-21 | X11-3430-71  |
|                   | T | X09-3882-71 | X11-3430-51  |
|                   | E | X09-3882-71 | X11-3432-71  |
| SINGAPORE<br>MADE | M | X09-3880-22 | X11-3430-22  |
|                   | X | X09-3882-22 | X11-3430-72  |
|                   | T | X09-3882-72 | X11-3430-52  |
|                   | E | X09-3882-72 | X11-3432-72  |

A-87/97

## PARTS LIST

A-87/97

## PARTS LIST

\* New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

NO.2

| Ref. No.<br>参照番号      | Address<br>位置 | Parts No.<br>部品番号 | Description<br>部品名 / 規格       | Desti-<br>nation<br>仕 |
|-----------------------|---------------|-------------------|-------------------------------|-----------------------|
| 609                   | 2A            | B01-0518-02       | PANEL ESCUTCHEON ASSY         |                       |
| 610                   | 2A            | B10-1963-04       | FRONT GLASS                   |                       |
| 612                   | 2A            | B11-0265-04       | COLOR FILTER                  |                       |
| 613                   | 2A            | B19-1520-04       | LIGHTING BOARD                |                       |
| 614                   | 2A            | B19-1525-04       | LIGHTING BOARD                |                       |
| -                     | -             | B46-0096-33       | WARRANTY CARD                 | X                     |
| -                     | -             | B52-0333-00       | CONNECTING DIAGRAM            |                       |
| -                     | -             | B60-1331-00       | INSTRUCTION MANUAL (ENGLISH)  |                       |
| -                     | -             | B60-1332-00       | INSTRUCTION MANUAL (SPANISH)  |                       |
| -                     | -             | B60-1333-00       | INSTRUCTION MANUAL (CHINESE)  |                       |
| 616                   | 1C            | E30-2592-15       | AC POWER CORD                 | M                     |
| 617                   | 1C            | E30-2717-05       | AC POWER CORD                 | X                     |
| 618                   | 1B            | E35-0689-05       | FLAT CABLE                    |                       |
| 619                   | 1B            | E03-0141-05       | AC OUTLET                     | X                     |
| 620                   | 2C            | F20-1284-05       | INSULATING BOARD              |                       |
| 621                   | 2A            | G11-0155-14       | SOFT TAPE (40X9X2)            |                       |
| 622                   | -             | H50-0820-04       | ITEM CARTON CASE              | M                     |
| 623                   | -             | H50-0855-04       | ITEM CARTON CASE              | X                     |
| 624                   | -             | H10-5601-12       | POLYSTYRENE FOAMED FIXTURE L  |                       |
| 625                   | -             | H10-5602-02       | POLYSTYRENE FOAMED FIXTURE R  |                       |
| 626                   | -             | H13-0111-14       | CARTON BOARD                  | X                     |
| 627                   | -             | H25-0232-04       | PROTECTION BAG (235X350X0.03) |                       |
| 628                   | -             | H25-0304-04       | PROTECTION BAG                |                       |
| 629                   | 2C            | J02-0366-15       | FOOT                          |                       |
| 630                   | 2B            | J02-1040-05       | REAR                          |                       |
| 631                   | 2B            | J12-0091-05       | FOOT                          |                       |
| 632                   | 1C            | J12-0091-05       | PIN                           |                       |
| 633                   | 1C            | J42-0083-05       | POWER CORD BUSHING            |                       |
| 634                   | 2A            | J61-0307-05       | WIRE BAND                     |                       |
| 635                   | 2A            | K29-4403-04       | KNOB VOLUME, LINEAR ACOUSTIC  |                       |
| 636                   | 2A            | K29-4404-04       | KNOB INPUT SELECTOR           |                       |
| 637                   | 2A            | K29-4405-04       | KNOB BALANCE                  |                       |
| 638                   | 2A            | K29-5672-04       | KNOB BASS, TREBLE             |                       |
| 639                   | 2A            | K29-5706-03       | KNOB DUAL SOUND, CD DIRECT    |                       |
| 640                   | 1B            | L07-0809-05       | POWER TRANSFORMER             | M                     |
| 641                   | 1B            | L07-0810-05       | POWER TRANSFORMER             | X                     |
| 642                   | 1C            | N09-0333-05       | TAPPING SCREW (3X12)          |                       |
| 643                   | 1C            | N09-2909-05       | TAPITE SCREW                  |                       |
| 644                   | 1B            | N86-4008-45       | BINDING HEAD TAPITE SCREW     |                       |
| 645                   | 1B            | N87-3006-45       | BRAZIER HEAD TAPITE SCREW     |                       |
| 646                   | 1B            | N89-3008-45       | BINDING HEAD TAPITE SCREW     |                       |
| 647                   | 2A, 2C        | N89-3008-46       | BINDING HEAD TAPITE SCREW     |                       |
| A-97 (JAPAN MADE)     |               |                   |                               |                       |
| 601                   | 1A            | A01-1810-01       | METALLIC CABINET              |                       |
| 602                   | 1A            | A60-0501-02       | PANEL ASSY                    |                       |
| 603                   | 1A            | X94-1050-11       | REMOTE CONTROL ASSY UNIT      | TE                    |
| 604                   | 1A            | X94-1050-21       | REMOTE CONTROL ASSY UNIT      | MX                    |
| 605                   | 1B            | F07-0721-23       | BATTERY COVER                 |                       |
| 606                   | 2A            | B01-0518-02       | PANEL ESCUTCHEON ASSY         |                       |
| 607                   | 2A            | B10-1963-04       | FRONT GLASS                   |                       |
| 608                   | 2A            | B11-0265-04       | COLOR FILTER                  |                       |
| 609                   | 2A            | B19-1520-04       | LIGHTING BOARD                |                       |
| 610                   | 2A            | B19-1525-04       | LIGHTING BOARD                |                       |
| 611                   | 2A            | B46-0096-33       | WARRANTY CARD                 | X                     |
| 612                   | 2A            | B52-0333-00       | CONNECTING DIAGRAM            |                       |
| 613                   | 2A            | B60-1331-00       | INSTRUCTION MANUAL (ENGLISH)  |                       |
| 614                   | 2A            | B60-1332-00       | INSTRUCTION MANUAL (SPANISH)  |                       |
| 615                   | 2A            | B60-1333-00       | INSTRUCTION MANUAL (CHINESE)  |                       |
| 616                   | 1C            | E30-2592-15       | AC POWER CORD                 | M                     |
| 617                   | 1C            | E30-2717-05       | AC POWER CORD                 | X                     |
| 618                   | 1B            | E35-0689-05       | FLAT CABLE                    |                       |
| 619                   | 1B            | E03-0141-05       | AC OUTLET                     | X                     |
| 620                   | 2C            | F20-1284-05       | INSULATING BOARD              |                       |
| 621                   | 2A            | G11-0155-14       | SOFT TAPE (40X9X2)            |                       |
| 622                   | -             | H50-0820-04       | ITEM CARTON CASE              | M                     |
| 623                   | -             | H50-0855-04       | ITEM CARTON CASE              | X                     |
| 624                   | -             | H10-5601-12       | POLYSTYRENE FOAMED FIXTURE L  |                       |
| 625                   | -             | H10-5602-02       | POLYSTYRENE FOAMED FIXTURE R  |                       |
| 626                   | -             | H13-0111-14       | CARTON BOARD                  | X                     |
| 627                   | -             | H25-0232-04       | PROTECTION BAG (235X350X0.03) |                       |
| 628                   | -             | H25-0304-04       | PROTECTION BAG                |                       |
| 629                   | 2C            | J02-0366-15       | FOOT                          |                       |
| 630                   | 2B            | J02-1040-05       | REAR                          |                       |
| 631                   | 2B            | J12-0091-05       | FOOT                          |                       |
| 632                   | 1C            | J12-0091-05       | PIN                           |                       |
| 633                   | 1C            | J42-0083-05       | POWER CORD BUSHING            |                       |
| 634                   | 2A            | J61-0307-05       | WIRE BAND                     |                       |
| 635                   | 2A            | K29-4403-04       | KNOB VOLUME, LINEAR ACOUSTIC  |                       |
| 636                   | 2A            | K29-4404-04       | KNOB INPUT SELECTOR           |                       |
| 637                   | 2A            | K29-4405-04       | KNOB BALANCE                  |                       |
| 638                   | 2A            | K29-5672-04       | KNOB BASS, TREBLE             |                       |
| 639                   | 2A            | K29-5706-03       | KNOB DUAL SOUND, CD DIRECT    |                       |
| 640                   | 1B            | L07-0809-05       | POWER TRANSFORMER             | M                     |
| 641                   | 1B            | L07-0810-05       | POWER TRANSFORMER             | X                     |
| 642                   | 1C            | N09-0333-05       | TAPPING SCREW (3X12)          |                       |
| 643                   | 1C            | N09-2909-05       | TAPITE SCREW                  |                       |
| 644                   | 1B            | N86-4008-45       | BINDING HEAD TAPITE SCREW     |                       |
| 645                   | 1B            | N87-3006-45       | BRAZIER HEAD TAPITE SCREW     |                       |
| 646                   | 1B            | N89-3008-45       | BINDING HEAD TAPITE SCREW     |                       |
| 647                   | 2A, 2C        | N89-3008-46       | BINDING HEAD TAPITE SCREW     |                       |
| A-87 (SINGAPORE MADE) |               |                   |                               |                       |
| 601                   | 1A            | A01-1810-01       | METALLIC CABINET              |                       |
| 602                   | 1A            | A60-0501-02       | PANEL ASSY                    |                       |
| 603                   | 1A            | X94-1050-11       | REMOTE CONTROL ASSY UNIT      | TE                    |
| 604                   | 1A            | X94-1050-21       | REMOTE CONTROL ASSY UNIT      | MX                    |
| 605                   | 1B            | F07-0721-23       | BATTERY COVER                 |                       |
| 606                   | 2A            | B01-0518-02       | PANEL ESCUTCHEON ASSY         |                       |
| 607                   | 2A            | B10-1963-04       | FRONT GLASS                   |                       |
| 608                   | 2A            | B11-0265-04       | COLOR FILTER                  |                       |
| 609                   | 2A            | B19-1520-04       | LIGHTING BOARD                |                       |
| 610                   | 2A            | B19-1525-04       | LIGHTING BOARD                |                       |
| 611                   | 2A            | B46-0096-33       | WARRANTY CARD                 | X                     |
| 612                   | 2A            | B52-0333-00       | CONNECTING DIAGRAM            |                       |
| 613                   | 2A            | B60-1331-00       | INSTRUCTION MANUAL (ENGLISH)  |                       |
| 614                   | 2A            | B60-1332-00       | INSTRUCTION MANUAL (SPANISH)  |                       |
| 615                   | 2A            | B60-1333-00       | INSTRUCTION MANUAL (CHINESE)  |                       |
| 616                   | 1C            | E30-2592-15       | AC POWER CORD                 | M                     |
| 617                   | 1C            | E30-2717-05       | AC POWER CORD                 | X                     |
| 618                   | 1B            | E35-0689-05       | FLAT CABLE                    |                       |
| 619                   | 1B            | E03-0141-05       | AC OUTLET                     | X                     |
| 620                   | 2C            | F20-1284-05       | INSULATING BOARD              |                       |
| 621                   | 2A            | G11-0155-14       | SOFT TAPE (40X9X2)            |                       |
| 622                   | -             | H50-0820-04       | ITEM CARTON CASE              | M                     |
| 623                   | -             | H50-0855-04       | ITEM CARTON CASE              | X                     |
| 624                   | -             | H10-5601-12       | POLYSTYRENE FOAMED FIXTURE L  |                       |
| 625                   | -             | H10-5602-02       | POLYSTYRENE FOAMED FIXTURE R  |                       |
| 626                   | -             | H13-0111-14       | CARTON BOARD                  | X                     |
| 627                   | -             | H25-0232-04       | PROTECTION BAG (235X350X0.03) |                       |
| 628                   | -             | H25-0304-04       | PROTECTION BAG                |                       |
| 629                   | 2C            | J02-0366-15       | FOOT                          |                       |
| 630                   | 2B            | J02-1040-05       | REAR                          |                       |
| 631                   | 2B            | J12-0091-05       | FOOT                          |                       |
| 632                   | 1C            | J12-0091-05       | PIN                           |                       |
| 633                   | 1C            | J42-0083-05       | POWER CORD BUSHING            |                       |
| 634                   | 2A            | J61-0307-05       | WIRE BAND                     |                       |
| 635                   | 2A            | K29-4403-04       | KNOB VOLUME, LINEAR ACOUSTIC  |                       |
| 636                   | 2A            | K29-4404-04       | KNOB INPUT SELECTOR           |                       |
| 637                   | 2A            | K29-4405-04       | KNOB BALANCE                  |                       |
| 638                   | 2A            | K29-5672-04       | KNOB BASS, TREBLE             |                       |
| 639                   | 2A            | K29-5706-03       | KNOB DUAL SOUND, CD DIRECT    |                       |
| 640                   | 1B            | L07-0809-05       | POWER TRANSFORMER             | M                     |
| 641                   | 1B            | L07-0810-05       | POWER TRANSFORMER             | X                     |
| 642                   | 1C            | N09-0333-05       | TAPPING SCREW (3X12)          |                       |
| 643                   | 1C            | N09-2909-05       | TAPITE SCREW                  |                       |
| 644                   | 1B            | N86-4008-45       | BINDING HEAD TAPITE SCREW     |                       |
| 645                   | 1B            | N87-3006-45       | BRAZIER HEAD TAPITE SCREW     |                       |
| 646                   | 1B            | N89-3008-45       | BINDING HEAD TAPITE SCREW     |                       |
| 647                   | 2A, 2C        | N89-3008-46       | BINDING HEAD TAPITE SCREW     |                       |
| A-87 (SINGAPORE MADE) |               |                   |                               |                       |
| 601                   | 1A            | A01-1810-01       | METALLIC CABINET              |                       |
| 602                   | 1A            | A60-0501-02       | PANEL ASSY                    |                       |
| 603                   | 1A            | X94-1050-11       | REMOTE CONTROL ASSY UNIT      | TE                    |
| 604                   | 1A            | X94-1050-21       | REMOTE CONTROL ASSY UNIT      | MX                    |
| 605                   | 1B            | F07-0721-23       | BATTERY COVER                 |                       |
| 606                   | 2A            | B01-0518-02       | PANEL ESCUTCHEON ASSY         |                       |
| 607                   | 2A            | B10-1963-04       | FRONT GLASS                   |                       |
| 608                   | 2A            | B11-0265-04       | COLOR FILTER                  |                       |
| 609                   | 2A            | B19-1520-04       | LIGHTING BOARD                |                       |
| 610                   | 2A            | B19-1525-04       | LIGHTING BOARD                |                       |
| 611                   | 2A            | B46-0096-33       | WARRANTY CARD                 | X                     |
| 612                   | 2A            | B52-0333-00       | CONNECTING DIAGRAM            |                       |
| 613                   | 2A            | B60-1331-00       | INSTRUCTION MANUAL (ENGLISH)  |                       |
| 614                   | 2A            | B60-1332-00       | INSTRUCTION MANUAL (SPANISH)  |                       |
| 615                   | 2A            | B60-1333-00       | INSTRUCTION MANUAL (CHINESE)  |                       |
| 616                   | 1C            | E30-2592-15       | AC POWER CORD                 | M                     |
| 617                   | 1C            | E30-2717-05       | AC POWER CORD                 | X                     |
| 618                   | 1B            | E35-0689-05       | FLAT CABLE                    |                       |
| 619                   | 1B            | E03-0141-05       | AC OUTLET                     | X                     |
| 620                   | 2C            | F20-1284-05       | INSULATING BOARD              |                       |
| 621                   | 2A            | G11-0155-14       | SOFT TAPE (40X9X2)            |                       |
| 622                   | -             | H50-0820-04       | ITEM CARTON CASE              | M                     |
| 623                   | -             | H50-0855-04       | ITEM CARTON CASE              | X                     |
| 624                   | -             | H10-5601-12       | POLYSTYRENE FOAMED FIXTURE L  |                       |
| 625                   | -             | H10-5602-02       | POLYSTYRENE FOAMED FIXTURE R  |                       |
| 626                   | -             | H13-0111-14       | CARTON BOARD                  | X                     |
| 627                   | -             | H25-0232-04       | PROTECTION BAG (235X350X0.03) |                       |
| 628                   | -             | H25-0304-04       | PROTECTION BAG                |                       |
| 629                   | 2C            | J02-0366-15       | FOOT                          |                       |
| 630                   | 2B            | J02-1040-05       | REAR                          |                       |
| 631                   | 2B            | J12-0091-05       | FOOT                          |                       |
| 632                   | 1C            | J12-0091-05       | PIN                           |                       |
| 633                   | 1C            | J42-0083-05       | POWER CORD BUSHING            |                       |
| 634                   | 2A            | J61-0307-05       | WIRE BAND                     |                       |
| 635                   | 2A            | K29-4403-04       | KNOB VOLUME, LINEAR ACOUSTIC  |                       |
| 636                   | 2A            | K29-4404-04       | KNOB INPUT SELECTOR           |                       |
| 637                   | 2A            | K29-4405-04       | KNOB BALANCE                  |                       |
| 638                   | 2A            | K29-5672-04       | KNOB BASS, TREBLE             |                       |
| 639                   | 2A            | K29-5706-03       | KNOB DUAL SOUND, CD DIRECT    |                       |
| 640                   | 1B            | L07-0809-05       | POWER TRANSFORMER             | M                     |
| 641                   | 1B            | L07-0810-05       | POWER TRANSFORMER             | X                     |
| 642                   | 1C            | N09-0333-05       | TAPPING SCREW (3X12)          |                       |
| 643                   | 1C            | N09-2909-05       | TAPITE SCREW                  |                       |
| 644                   | 1B            | N86-4008-45       | BINDING HEAD TAPITE SCREW     |                       |
| 645                   | 1B            | N87-3006-45       | BRAZIER HEAD TAPITE SCREW     |                       |
| 646                   | 1B            | N89-3008-45       | BINDING HEAD TAPITE SCREW     |                       |
| 647                   | 2A, 2C        | N89-3008-46       | BINDING HEAD TAPITE SCREW     |                       |

LScandinavia KUSA PCanada  
YFPX(Far East, Hawaii) TEngland EEurope  
YAAFE(S/Europe) XAustralia MOther Areas  
△ indicates safety critical components.

\* New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

NO.4

| Ref. No.<br>参照番号 | Address<br>位置 | Parts No.<br>部品番号 | Description<br>部品名 / 規格       | Desti-<br>nation<br>仕 |
|------------------|---------------|-------------------|-------------------------------|-----------------------|
| 601              | 1A            | A01-1810-01       | METALLIC CABINET              |                       |
| 602              | 2A            | A60-0501-02       | PANEL ASSY                    |                       |
| 603              | 1A            | X94-1050-11       | REMOTE CONTROL ASSY UNIT      | TE                    |
| 604              | 1A            | X94-1050-21       | REMOTE CONTROL ASSY UNIT      | MX                    |
| 605              | 1B            | F07-0721-23       | BATTERY COVER                 |                       |
| 606              | 2A            | B01-0518-02       | PANEL ESCUTCHEON ASSY         |                       |
| 607              | 2A            | B10-1963-04       | FRONT GLASS                   |                       |
| 608              | 2A            | B11-0265-04       | COLOR FILTER                  |                       |
| 609              | 2A            | B19-1520-04       | LIGHTING BOARD                |                       |
| 610              | 2A            | B19-1525-04       | LIGHTING BOARD                |                       |
| 611              | 2A            | B46-0096-33       | WARRANTY CARD                 | X                     |
| 612              | 2A            | B52-0333-00       | CONNECTING DIAGRAM            |                       |
| 613              | 2A            | B60-1331-00       | INSTRUCTION MANUAL (ENGLISH)  |                       |
| 614              | 2A            | B60-1332-00       | INSTRUCTION MANUAL (SPANISH)  |                       |
| 615              | 2A            | B60-1333-00       | INSTRUCTION MANUAL (CHINESE)  |                       |
| 616              | 1C            | E30-2592-15       | AC POWER CORD                 | M                     |
| 617              | 1C            | E30-2717-05       | AC POWER CORD                 | X                     |
| 618              | 1B            | E35-0689-05       | FLAT CABLE                    |                       |
| 619              | 1B            | E03-0141-05       | AC OUTLET                     | X                     |
| 620              | 2C            | F20-1284-05       | INSULATING BOARD              |                       |
| 621              | 2A            | G11-0155-14       | SOFT TAPE (40X9X2)            |                       |
| 622              | -             | H50-0820-04       | ITEM CARTON CASE              | M                     |
| 623              | -             | H50-0855-04       | ITEM CARTON CASE              | X                     |
| 624              | -             | H10-5601-12       | POLYSTYRENE FOAMED FIXTURE L  |                       |
| 625              | -             | H10-5602-02       | POLYSTYRENE FOAMED FIXTURE R  |                       |
| 626              | -             | H13-0111-14       | CARTON BOARD                  | X                     |
| 627              | -             | H25-0232-04       | PROTECTION BAG (235X350X0.03) |                       |
| 628              | -             | H25-0304-04       | PROTECTION BAG                |                       |
| 629              | 2C            | J02-0366-15       | FOOT                          |                       |
| 630              | 2B            | J02-1040-05       | REAR                          |                       |
| 631              | 2B            | J12-0091-05       | FOOT                          |                       |
| 632              | 1C            | J12-0091-05       | PIN                           |                       |
| 633              | 1C            | J42-0083-05       | POWER CORD BUSHING            |                       |
| 634              | 2A            | J61-0307-05       | WIRE BAND                     |                       |
| 635              | 2A            | K29-4403-04       | KNOB VOLUME, LINEAR ACOUSTIC  |                       |
| 636              | 2A            | K29-4404-04       | KNOB INPUT SELECTOR           |                       |
| 637              | 2A            | K29-4405-04       | KNOB BALANCE                  |                       |
| 638              | 2A            | K29-5672-04       | KNOB BASS, TREBLE             |                       |
| 639              | 2A            | K29-5706-03       | KNOB DUAL SOUND, CD DIRECT    |                       |
| 640              | 1B            | L07-0809-05       | POWER TRANSFORMER             | M                     |
| 641              | 1B            | L07-0810-05       | POWER TRANSFORMER             | X                     |
| 642              | 1C            | N09-0333-05       | TAPPING SCREW (3X12)          |                       |
| 643              | 1C            | N09-2909-05       | TAPITE SCREW                  |                       |
| 644              | 1B            | N86-4008-45       | BINDING HEAD TAPITE SCREW     |                       |
| 645              | 1B            | N87-3006-45       | BRAZIER HEAD TAPITE SCREW     |                       |
| 646              | 1B            | N89-3008-45       | BINDING HEAD TAPITE SCREW     |                       |
| 647              | 2A, 2C        | N89-3008-46       | BINDING HEAD TAPITE SCREW     | </                    |

\* New Parts  
 Parts without Parts No. are not supplied.  
 Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
 Teile ohne Parts No. werden nicht geliefert.

NO.5

| Ref. No.<br>参照番号         | Address<br>位置 | Parts No.<br>部品番号 | Description<br>部品名 / 規格    | Desti-<br>nation<br>仕 | Re-<br>marks<br>備考 |
|--------------------------|---------------|-------------------|----------------------------|-----------------------|--------------------|
| 633                      | 2A            | K29-5672-04       | KN08 BASS, TREBLE          |                       |                    |
| 634                      | 2A            | K29-5706-03       | KN08 DUAL SOUND, CD DIRECT |                       |                    |
| 640                      | 1B            | L07-0809-05       | POWER TRANSFORMER          | M                     |                    |
| 640                      | 1B            | L07-0810-05       | POWER TRANSFORMER          | X                     |                    |
| 640                      | 1B            | L07-0811-05       | POWER TRANSFORMER          | T                     |                    |
| 640                      | 1B            | L07-0812-05       | POWER TRANSFORMER          | E                     |                    |
| A                        | 1C            | N09-0333-05       | TAPPING SCREW (3X12)       |                       |                    |
| B                        | 1C            | N09-0334-05       | TAPPING SCREW              |                       |                    |
| E                        | 1B            | N86-2008-05       | BINDING HEAD TAPITTE SCREW |                       |                    |
| F                        | 2B, 2C        | N87-3006-45       | BRAZIER HEAD TAPITTE SCREW |                       |                    |
| G                        | 1A, 1C        | N89-3008-45       | BINDING HEAD TAPITTE SCREW |                       |                    |
| H                        | 2A, 2C        | N89-3008-46       | BINDING HEAD TAPITTE SCREW |                       |                    |
| AUDIO UNIT (X09-388X-XX) |               |                   |                            |                       |                    |
| C1                       | 2             | CK45FF1H103Z      | CERAMIC                    |                       |                    |
| C3                       | 4             | CE04KW1H010M      | ELECTR0                    | J                     | S                  |
| C3                       | 4             | CE04LW1H010M      | ELECTR0                    |                       |                    |
| C5                       | 6             | C90-3522-05       | ELECTR0                    |                       |                    |
| C7                       | 8             | CC45FSL1H101J     | CERAMIC                    |                       |                    |
| C9                       | 10            | CC45FSL1H820J     | CERAMIC                    |                       |                    |
| C11                      | 12            | CC45FSL1H151J     | CERAMIC                    |                       |                    |
| C13                      | 14            | CE04KW1C220M      | ELECTR0                    | J                     | S                  |
| C13                      | 14            | CE04LW1C220M      | ELECTR0                    |                       |                    |
| C15                      | 16            | CK45FF1H103Z      | CERAMIC                    |                       |                    |
| C17                      | 18            | CC45FSL1H030C     | CERAMIC                    |                       |                    |
| C19                      | 22            | CF92FV1H224J      | MF                         | J                     | S                  |
| C19                      | 22            | CF92FV1H224J      | MF                         |                       |                    |
| C23                      | 24            | CF92FV1H332J      | MF                         |                       |                    |
| C25                      | 26            | CE04DW1J101M      | ELECTR0                    |                       |                    |
| C27                      | 30            | CE04HW1H2R2M      | NP-ELEC                    |                       |                    |
| C27                      | 30            | CF92FV1H221K      | MF                         | J                     | S                  |
| C31                      | 32            | CE04KW1H2R2M      | ELECTR0                    |                       |                    |
| C31                      | 32            | CE04LW1H2R2M      | ELECTR0                    | J                     | S                  |
| C33                      | 34            | CK45FBIH471K      | CERAMIC                    |                       |                    |
| C35                      | 36            | CE04KW1A101M      | ELECTR0                    | J                     | S                  |
| C35                      | 36            | CE04LW1A101M      | ELECTR0                    |                       |                    |
| C37                      | 38            | CC45FSL1H010J     | CERAMIC                    |                       |                    |
| C39                      | 40            | CC45FSL1H050C     | CERAMIC                    |                       |                    |
| C41                      |               | CE04DW1H531H      | ELECTR0                    | J                     | S                  |
| C42                      |               | CE04KW1H101M      | ELECTR0                    |                       |                    |
| C42                      |               | CE04LW1H101M      | ELECTR0                    | J                     | S                  |
| C43                      | -46           | CF92FV1H224J      | MF                         |                       |                    |
| C47                      |               | CE04KH0J471M      | ELECTR0                    |                       |                    |
| C47                      |               | CE04LW0J471M      | ELECTR0                    | J                     | S                  |
| C48                      |               | CF92FV1H332J      | MF                         |                       |                    |
| C49                      | 50            | CK45FE1H103Z      | CERAMIC                    |                       |                    |
| C51                      | 52            | C90-3512-05       | ELECTR0                    | 9                     | 8                  |
| C51                      | 52            | C90-3512-05       | ELECTR0                    |                       |                    |
| C51                      | 52            | C90-3513-05       | ELECTR0                    | 9                     | 8                  |
| C53                      |               | CE04KW1C220M      | ELECTR0                    | J                     | S                  |
| C53                      |               | CE04LW1C220M      | ELECTR0                    |                       |                    |
| C54                      |               | CE04KW2A4R7M      | ELECTR0                    | J                     | S                  |
| C54                      |               | CE04LW2A4R7M      | ELECTR0                    |                       |                    |
| C55                      |               | CE04KW0J221M      | ELECTR0                    | J                     | S                  |

LScandinavia  
 YPX(Far East, Hawaii)  
 YAAFESE(Europe)

KUSA PCanada  
 TEngland EEurope  
 XAustralia MOther Areas

△ indicates safety critical components.

PARTS LIST

A-87/97

\* New Parts  
 Parts without Parts No. are not supplied.  
 Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
 Teile ohne Parts No. werden nicht geliefert.

NO.6

| Ref. No.<br>参照番号 | Address<br>位置 | Parts No.<br>部品番号 | Description<br>部品名 / 規格 | Desti-<br>nation<br>仕 | Re-<br>marks<br>備考 |
|------------------|---------------|-------------------|-------------------------|-----------------------|--------------------|
| C55              |               | CE04LW0J221M      | ELECTR0                 |                       | S                  |
| C57              | 58            | CC45FSL1H221J     | CERAMIC                 |                       |                    |
| C60              |               | CK45FF1H103Z      | CERAMIC                 |                       |                    |
| C61              | 62            | CE04KW1H2R2M      | ELECTR0                 | J                     | S                  |
| C61              | 62            | CE04LW1H2R2M      | ELECTR0                 |                       |                    |
| C63              | 64            | CC45FSL1H221J     | CERAMIC                 |                       |                    |
| C65              | 66            | CC45FSL1H101J     | CERAMIC                 |                       |                    |
| C67              | 68            | CE04KW1C220M      | ELECTR0                 | J                     | S                  |
| C67              | 68            | CE04LW1C220M      | ELECTR0                 |                       |                    |
| C69              |               | CE04KW1H010M      | ELECTR0                 | J                     | S                  |
| C69              |               | CE04LW1H010M      | ELECTR0                 |                       |                    |
| C70              |               | CE04KW1H2R2M      | ELECTR0                 | J                     | S                  |
| C70              |               | CE04LW1H2R2M      | ELECTR0                 |                       |                    |
| C71              | 72            | CK45FF1H472Z      | CERAMIC                 |                       |                    |
| C73              | -76           | CK45FF1H103Z      | CERAMIC                 |                       |                    |
| C77              | 78            | CK45FF1H472Z      | CERAMIC                 |                       |                    |
| C79              |               | CF92FV1H105J      | MF                      |                       |                    |
| C80              |               | CK45FF1H472Z      | CERAMIC                 |                       |                    |
| C81              | 86            | CK45FBIH471K      | CERAMIC                 |                       |                    |
| C85              |               | CE04KW1A470M      | ELECTR0                 | J                     | S                  |
| C87              |               | CE04LW1A470M      | ELECTR0                 |                       |                    |
| C88              |               | CE04LW1C220M      | NP-ELEC                 | J                     | S                  |
| C89              |               | CK45FF1H472Z      | CERAMIC                 |                       |                    |
| C90              |               | CK45FF1H103Z      | CERAMIC                 |                       |                    |
| C91              | 92            | CF92FV1H823J      | MF                      |                       |                    |
| C93              |               | CE04KW1H362M      | NP-ELEC                 | J                     | S                  |
| C94              |               | CE04LW1E470M      | ELECTR0                 |                       |                    |
| C94              |               | CE04LW1E470M      | ELECTR0                 | J                     | S                  |
| C95              | 96            | CK45FBIH471K      | CERAMIC                 |                       |                    |
| C97              |               | CE04KW1V100M      | ELECTR0                 | J                     | S                  |
| C97              |               | CE04LW1V100M      | ELECTR0                 |                       |                    |
| C98              |               | CE04HW1E220M      | NP-ELEC                 | J                     | S                  |
| C99              | 100           | CF92FV1H104J      | MF                      |                       |                    |
| C101             |               | CE04KW1V4R7M      | ELECTR0                 | J                     | S                  |
| C101             |               | CE04LW1V4R7M      | ELECTR0                 |                       |                    |
| C102             |               | CK45FF1H103Z      | CERAMIC                 |                       |                    |
| C104             |               | CK45FF1H103Z      | CERAMIC                 |                       |                    |
| C109             |               | CE04DW1H471M      | ELECTR0                 | J                     | S                  |
| C110             |               | CK45FBIH102K      | CERAMIC                 |                       |                    |
| C111             | 112           | CF92FV1H104J      | MF                      |                       |                    |
| C113             |               | CE04KW1A101M      | ELECTR0                 | J                     | S                  |
| C113             |               | CE04LW1A101M      | ELECTR0                 |                       |                    |
| C114             |               | CE04KW1V100M      | ELECTR0                 | J                     | S                  |
| C114             |               | CE04LW1V100M      | ELECTR0                 |                       |                    |
| C115             |               | CE04KW1V101M      | ELECTR0                 | J                     | S                  |
| C115             |               | CE04LW1V101M      | ELECTR0                 |                       |                    |
| C116             |               | CK45FBIH102K      | CERAMIC                 |                       |                    |
| C119             |               | C91-0749-05       | CERAMIC                 |                       |                    |
| C120             |               | CE04KW1C101M      | ELECTR0                 | J                     | S                  |
| C120             |               | CE04LW1C101M      | ELECTR0                 |                       |                    |
| C121             | -124          | CK45FF1H103Z      | CERAMIC                 |                       |                    |
| C125             | 126           | CE04KW1V222M      | ELECTR0                 | J                     | S                  |
| C125             | 126           | CE04LW1V222M      | ELECTR0                 |                       |                    |
| C127             | -130          | CF92FV1H104J      | MF                      |                       |                    |

J : JAPAN MADE  
 S : SINGAPORE MADE  
 8 : A-87  
 9 : A-97

LScandinavia  
 YPX(Far East, Hawaii)  
 YAAFESE(Europe)

KUSA PCanada  
 TEngland EEurope  
 XAustralia MOther Areas

△ indicates safety critical components.

\* New Parts  
 Parts without Parts No. are not supplied.  
 Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
 Teile ohne Parts No. werden nicht geliefert.

NO.7

| Ref. No.<br>参照番号 | Address<br>位置  | Parts No.<br>部品番号 | Description<br>部品名 / 規格        | Desti-<br>nation<br>仕 | Re-<br>marks<br>備考 |
|------------------|----------------|-------------------|--------------------------------|-----------------------|--------------------|
| C131-134         |                | CE04KW1C101M      | ELECTR0                        | J                     | S                  |
| C131-134         |                | CE04LW1C101M      | ELECTR0                        |                       |                    |
| C139             |                | CF92FV1H104J      | MF                             | J                     | S                  |
| C140             |                | CE04LW1V220M      | ELECTR0                        |                       |                    |
| C140             |                | CE04LW1V220M      | ELECTR0                        | J                     | S                  |
| C141-144         |                | CK45FE2H103P      | CERAMIC                        |                       |                    |
| C145             | 146            | C90-3514-05       | ELECTR0                        | P                     |                    |
| C145             | 146            | C90-3514-05       | ELECTR0                        | 564W                  |                    |
| C145             | 146            | C90-3515-05       | ELECTR0                        | 7500UF                |                    |
| C147-150         |                | CK45FF1H103Z      | CERAMIC                        | 63W                   |                    |
| C151             | 152            | CF92FV1H473J      | MF                             | 0.010UF               |                    |
| C153             | 154            | CC45FSL1H560J     | CERAMIC                        | 0.047UF               | J                  |
| C153             | 156            | CK45FBIH561K      | CERAMIC                        | 56PF                  |                    |
| C157             | 158            | CE04LW1V100M      | ELECTR0                        | 100F                  | J                  |
| C157             | 158            | CE04LW1V100M      | ELECTR0                        | 100F                  | S                  |
| C159             | 160            | CE04HW1H4R7M      | NP-ELEC                        | 4.7UF                 | 504W               |
| C161             | -164           | CF92FV1H104J      | MF                             | 0.10UF                | J                  |
| C171             | 172            | C91-0749-05       | CERAMIC                        | 0.10UF                | K                  |
| C173             | 174            | CK45FBIH472Z      | CERAMIC                        | 4700PF                | Z                  |
| C175             |                | CK45FBIH102K      | CERAMIC                        | 1000PF                | K                  |
| C176             | 177            | CE04KW1H2R2M      | ELECTR0                        | 2.2UF                 | 504W               |
| C176             | 177            | CE04LW1H2R2M      | ELECTR0                        | 2.2UF                 | 504W               |
| C178             |                | C91-0749-05       | CERAMIC                        | 0.01UF                | K                  |
| J1               |                | B11-0210-05       | PHONE JACK                     |                       |                    |
| J2               |                | B70-0022-05       | LOCK TERMINAL BOARD SPEAKERS   |                       |                    |
| J3               |                | B43-0032-05       | PHONO JACK SURROUND SP         |                       |                    |
| J4               |                | B43-0030-05       | PHONO JACK PREOUT'S MONOPH     |                       |                    |
| J5               |                | B08-0312-05       | RECTANGULAR RECEPTACLE SYNCHRO |                       |                    |
| J6               |                | B08-0414-05       | RECTANGULAR RECEPTACLE TUNER   |                       |                    |
| J7               |                | B08-0411-05       | RECTANGULAR RECEPTACLE DECK    |                       |                    |
| J8               |                | B08-0415-05       | RECTANGULAR RECEPTACLE CD      |                       |                    |
| F2               | 3              | F06-1022-05       | FUSE (SEMK0)                   | (250V T1AL)           |                    |
| F4               | 5              | F05-4025-05       | FUSE (SEMK0)                   | (250V T4A)            |                    |
| F6               |                | F06-1022-05       | FUSE (SEMK0)                   | (250V T1AL)           |                    |
| F7               |                | F05-2525-05       | FUSE (SEMK0)                   | (250V T2.5A)          |                    |
| F8               |                | F05-1623-05       | FUSE (SEMK0)                   | (250V T1.6A)          |                    |
| CN21-34          |                | J13-0075-05       | FUSE CLIP                      |                       |                    |
| L1               | -4             | L39-0085-05       | PHASE COMPENSATION COIL        |                       |                    |
| C                |                | N02-2912-05       | SENS (TAPITTE SCREW)           |                       |                    |
| D                |                | N35-3008-46       | BINDING HEAD MACHINE SCREW     |                       |                    |
| H                | 1C, 2B, 1B, 2C | N89-3008-46       | BINDING HEAD TAPITTE SCREW     |                       |                    |
| CPI-3            |                | R90-0826-05       | MULTI-COMP                     | 0.22X2                | J 5W               |
| R5               | 6              | RN14BK2C1003F     | RN                             | 100K                  | J 1/6W             |
| R13              | 14             | RN14BK2E101J      | RN                             | 100K                  | J 1/4W             |
| R15              | 16             | RN14BK2C1003F     | RN                             | 100K                  | J 1/6W             |
| R21              | -24            | RD14NB2E200J      | RD                             | 22                    | J 1/4W             |
| R25              | 26             | RD14NB2E822J      | RD                             | 8.2K                  | J 1/4W             |
| R29              | 30             | RS14KB3D100J      | FL-PR00F RS                    | 10                    | J 2W               |
| R31              | 32             | RD14NB2E100J      | RD                             | 10                    | J 1/4W             |
| R42              |                | RD14NB2E4R7J      | RD                             | 4.7                   | J 1/4W             |
| R46              |                | RD14NB2E100J      | RD                             | 10                    | J 1/4W             |
| R47              | 48             | RD14NB2E4R7J      | RD                             | 4.7                   | J 1/4W             |

J : JAPAN MADE  
 S : SINGAPORE MADE  
 8 : A-87  
 9 : A-97

LScandinavia  
 YPX(Far East, Hawaii)  
 YAAFESE(Europe)

KUSA PCanada  
 TEngland EEurope  
 XAustralia MOther Areas

△ indicates safety critical components.

\* New Parts  
 Parts without Parts No. are not supplied.  
 Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
 Teile ohne Parts No. werden nicht geliefert.

NO.8

| Ref. No.<br>参照番号 | Address<br>位置 | New<br>Parts<br>番 | Parts No.<br>部品番号 | Description<br>部品名 / 規格   | Desti-<br>nation<br>仕 | Remarks<br>備考 |
|------------------|---------------|-------------------|-------------------|---------------------------|-----------------------|---------------|
| R59 ,60          |               | *                 | RD14NB2E101J      | RD                        | 100                   | J 1/4W        |
| R61 ,62          |               | *                 | RS14NB3D4R7J      | METAL OXIDE FILM RESISTOR |                       |               |
| R70 ,75          |               | *                 | RD14NB2E152J      | RD                        | 1.5K                  | J 1/4W        |
| R75              |               | *                 | RS14NB3A100J      | METAL OXIDE FILM RESISTOR |                       |               |
| R85              |               | *                 | RS14NB3D102J      | METAL OXIDE FILM RESISTOR |                       |               |
| R86              |               | *                 | RS14NB3D471J      | METAL OXIDE FILM RESISTOR |                       |               |
| R87 ,88          |               | *                 | RS14NB3D560J      | METAL OXIDE FILM RESISTOR |                       |               |
| R103             |               | *                 | RS14NB3D202J      | METAL OXIDE FILM RESISTOR |                       |               |
| R106             |               | *                 | RD14NB2E2R2J      | METAL OXIDE FILM RESISTOR | 2.2                   | J 1/4W        |
| R108             |               | *                 | RD14NB2E100J      | RD                        | 10                    | J 1/4W        |
| R112             |               | *                 | RS14NB3D150J      | METAL OXIDE FILM RESISTOR |                       |               |
| R114             |               | *                 | RS14NB3D332J      | METAL OXIDE FILM RESISTOR |                       |               |
| R121             |               | *                 | RD14NB2E2R2J      | RD                        | 2.2                   | J 1/4W        |
| R122             |               | *                 | RD14NB2E4R7J      | RD                        | 4.7                   | J 1/4W        |
| R123 ,124        |               | *                 | RS14NB3D820J      | METAL OXIDE FILM RESISTOR |                       |               |
| VR1 ,2           |               | *                 | R12-1616-05       | TRIMMING POT.(1K)         | IDLE ADJ              |               |
| VR3              |               | *                 | R29-5057-05       | POTENTIOMETER(100Kx4)     | VOLUME                |               |
| VR4              |               | *                 | R29-3039-05       | POTENTIOMETER(10K X1)     | LAC                   |               |
| K1               |               |                   | S51-2078-05       | MAGNETIC RELAY            |                       |               |
| K2 -6            |               |                   | S76-0005-05       | MAGNETIC RELAY            |                       |               |
| D1 -3            |               |                   | HSS104A           | DIODE                     |                       |               |
| D1 -3            |               |                   | ISS131            | DIODE                     |                       |               |
| D4 ,5            |               |                   | HSS131            | DIODE                     |                       |               |
| D4 ,5            |               |                   | ISS133            | DIODE                     |                       |               |
| D6 -9            |               |                   | HZS7.5S(B2)       | ZENER DIODE               |                       |               |
| D6 -9            |               |                   | RD7.5JS(B2)       | ZENER DIODE               |                       |               |
| D10              |               |                   | HSS104A           | DIODE                     |                       |               |
| D10              |               |                   | ISS131            | DIODE                     |                       |               |
| D11              |               |                   | HZS4.7N(B2)       | ZENER DIODE               |                       |               |
| D11              |               |                   | RD4.7ES(B2)       | ZENER DIODE               |                       |               |
| D12              |               |                   | HSS104A           | DIODE                     |                       |               |
| D12              |               |                   | ISS131            | DIODE                     |                       |               |
| D13 -21          |               |                   | HSS104            | DIODE                     |                       |               |
| D13 -21          |               |                   | ISS133            | DIODE                     |                       |               |
| D23              |               |                   | HZS4.7N(B2)       | ZENER DIODE               |                       |               |
| D23              |               |                   | RD4.7ES(B2)       | ZENER DIODE               |                       |               |
| D24              |               |                   | HZS3.9N(B2)       | ZENER DIODE               |                       |               |
| D24              |               |                   | RD3.9ES(B2)       | ZENER DIODE               |                       |               |
| D25              |               |                   | HSS104            | DIODE                     |                       |               |
| D25              |               |                   | ISS133            | DIODE                     |                       |               |
| D28 -30          |               |                   | HSS104            | DIODE                     |                       |               |
| D28 -30          |               |                   | ISS133            | DIODE                     |                       |               |
| D31 ,32          |               |                   | HZS5.1N(B2)       | ZENER DIODE               |                       |               |
| D31 ,32          |               |                   | RD5.1ES(B2)       | ZENER DIODE               |                       |               |
| D33 ,34          |               |                   | S5688             | DIODE                     |                       |               |
| D35 -37          |               |                   | HSS104            | DIODE                     |                       |               |
| D35 -37          |               |                   | ISS133            | DIODE                     |                       |               |
| D40 ,41          |               |                   | HZS15N(B2)        | ZENER DIODE               |                       |               |
| D40 ,41          |               |                   | RD15ES(B2)        | ZENER DIODE               |                       |               |
| D47              |               |                   | KBP02M-6127       | DIODE                     |                       |               |
| D48              |               |                   | D3SBA20F03        | DIODE                     |                       |               |
| D48              |               |                   | RBV-402LFA        | DIODE                     |                       |               |
| D49              |               |                   | D5SBA20F03        | DIODE                     |                       |               |
| D49              |               |                   | RBV-402LFA        | DIODE                     |                       |               |

|                         |              |                |                                        |
|-------------------------|--------------|----------------|----------------------------------------|
| LS: Scandinavia         | KUSA         | P: Canada      | J : JAPAN MADE                         |
| Y: PX(Far East, Hawaii) | TE: England  | E: Europe      | S : SINGAPORE MADE                     |
| X: AAFES(Europe)        | T: Australia | M: Other Areas | 8 : A-87                               |
|                         |              |                | A indicates safety critical components |



## PARTS LIST

NO.10

x New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

| Ref. No.<br>参照番号 | Address<br>位置 | Parts No.<br>部品番号 | Description<br>部品名 / 規格 | Desti-<br>nation<br>仕 | Re-<br>marks<br>備考 |
|------------------|---------------|-------------------|-------------------------|-----------------------|--------------------|
| C45, 46          |               | CE04LW1C101M      | ELECTR0                 |                       | S                  |
| C48, 49          |               | CK45FE1H103Z      | CERAMIC                 |                       | J                  |
| C50              |               | C91-0769-05       | CERAMIC                 |                       | S                  |
| C51, 54          |               | CE04KW1V100M      | ELECTR0                 |                       | J                  |
| C51, 54          |               | CE04LW1V100M      | ELECTR0                 |                       | S                  |
| C55, 56          |               | CC45FSL1H560J     | 56PF                    |                       | J                  |
| C57, 58          |               | C90-3225-05       | ELECTR0                 |                       | J                  |
| C59, 62          |               | CE04KW1V100M      | ELECTR0                 |                       | J                  |
| C59, 62          |               | CE04LW1V100M      | ELECTR0                 |                       | S                  |
| C63, 64          |               | CC45FSL1H560J     | 56PF                    |                       | J                  |
| C65, 66          |               | CE04KW1V100M      | ELECTR0                 |                       | J                  |
| C65, 66          |               | CE04LW1V100M      | ELECTR0                 |                       | S                  |
| C67, 68          |               | CC45FSL1H560J     | 56PF                    |                       | J                  |
| C69, 74          |               | CE04KW1V100M      | ELECTR0                 |                       | J                  |
| C69, 74          |               | CE04LW1V100M      | ELECTR0                 |                       | S                  |
| C75, 76          |               | CC45FSL1H560J     | 56PF                    |                       | J                  |
| C77, 78          |               | CC45FSL1H101J     | 100PF                   |                       | J                  |
| C79, 82          |               | CE04KW1V100M      | ELECTR0                 |                       | J                  |
| C79, 82          |               | CE04LW1V100M      | ELECTR0                 |                       | S                  |
| C83, 84          |               | CC45FSL1H560J     | 56PF                    |                       | J                  |
| C85, 88          |               | CE04KW1V100M      | ELECTR0                 |                       | J                  |
| C85, 88          |               | CE04LW1V100M      | ELECTR0                 |                       | S                  |
| C89, 90          |               | CC45FSL1H560J     | 56PF                    |                       | J                  |
| C91, 94          |               | CE04KW1V100M      | ELECTR0                 |                       | J                  |
| C91, 94          |               | CE04LW1V100M      | ELECTR0                 |                       | S                  |
| C100             |               | C91-0769-05       | CERAMIC                 |                       | J                  |
| C101, 102        |               | CE04KW1V100M      | ELECTR0                 |                       | J                  |
| C101, 102        |               | CE04LW1V100M      | ELECTR0                 |                       | S                  |
| C103, 104        |               | CC45FSL1H560J     | 56PF                    |                       | J                  |
| C103, 106        |               | CE04KW1V100M      | ELECTR0                 |                       | J                  |
| C105, 106        |               | CE04LW1V100M      | ELECTR0                 |                       | S                  |
| C130, 134        |               | C91-1439-05       | FILM                    |                       | J                  |
| C131, 134        |               | CK45FE1H103Z      | CERAMIC                 |                       | S                  |
| C135             |               | CE04KW1V100M      | ELECTR0                 |                       | J                  |
| C135             |               | CE04LW1V100M      | ELECTR0                 |                       | S                  |
| C136             |               | C91-1439-05       | FILM                    |                       | J                  |
| C151             |               | CK45FE1H471K      | CERAMIC                 |                       | S                  |
| C152             |               | CK45FE1H102K      | CERAMIC                 |                       | J                  |
| C153, 155        |               | CK45FE1H471K      | CERAMIC                 |                       | J                  |
| C156, 157        |               | CK45FE1H102K      | CERAMIC                 |                       | J                  |
| C158             |               | CK45FE1H471K      | CERAMIC                 |                       | J                  |
| C159, 161        |               | C91-0753-05       | CHIP C                  |                       | J                  |
| C162             |               | C91-0753-05       | CERAMIC                 |                       | J                  |
| C165, 168        |               | CK45FE1H103Z      | CERAMIC                 |                       | J                  |
| C169, 170        |               | CF92FV1H103J      | MF                      |                       | J                  |
| C201, 202        |               | CE04KW1H101M      | ELECTR0                 |                       | J                  |
| C201, 202        |               | CE04LW1H101M      | ELECTR0                 |                       | S                  |
| C203, 204        |               | CC45FSL1H221J     | 220PF                   |                       | J                  |
| C205, 206        |               | CF92FV1H473J      | MF                      |                       | J                  |
| C207, 210        |               | CC45FSL1H560J     | 56PF                    |                       | J                  |
| C211, 214        |               | CE04KW1H101M      | ELECTR0                 |                       | J                  |
| C211, 214        |               | CE04LW1H101M      | ELECTR0                 |                       | S                  |
| C215, 218        |               | C90-3225-05       | ELECTR0                 |                       | J                  |
| C219, 220        |               | CE04KW1H470M      | ELECTR0                 |                       | J                  |
| C219, 220        |               | CE04LW1H470M      | ELECTR0                 |                       | S                  |

L:Scandinavia  
Y:PX(Far East, Hawaii)  
Y:AAFES(Europe)

K:USA  
T:England  
X:Australia

P:Canada  
E:Europe  
M:Other Areas

△ indicates safety critical components.

NO.9

x New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

| Ref. No.<br>参照番号 | Address<br>位置 | Parts No.<br>部品番号 | Description<br>部品名 / 規格       | Desti-<br>nation<br>仕 | Re-<br>marks<br>備考 |
|------------------|---------------|-------------------|-------------------------------|-----------------------|--------------------|
| IC1              |               | STK350-030        | IC(CAF DRIVER AMP)            |                       | 9                  |
| IC2              |               | NJM4556L          | IC(OP AMP)                    |                       | 8                  |
| IC3              |               | STK401-071        | IC(CAF POWER AMP/40WX2)       |                       | 9                  |
| IC3              |               | STK401-071        | IC(CAF POWER AMP/40WX2)       |                       | 9                  |
| IC4              |               | BA12003           | IC(TRANSISTOR ARRAY)          |                       |                    |
| IC5              |               | TA78057S          | IC(VOLTAGE REGULATOR/ +5.75V) |                       |                    |
| IC6              |               | LC7822E           | IC(ANALOG SW)                 |                       |                    |
| IC7              |               | TA7815S           | IC(VOLTAGE REGULATOR/ +15V)   |                       |                    |
| IC7              |               | XRA17815T         | IC(VOLTAGE REGULATOR/ +15V)   |                       |                    |
| IC8              |               | TA79015S          | IC(VOLTAGE REGULATOR/ -15V)   |                       |                    |
| IC8              |               | UPC7915AHF        | IC(VOLTAGE REGULATOR/ -15V)   |                       |                    |
| IC9              |               | BA6209N           | IC(MOTOR DRIVER)              |                       |                    |
| IC10             |               | TAB409S           | IC(MOTOR CONTROL)             |                       |                    |
| IC11             |               | TA7812S           | IC(VOLTAGE REGULATOR/ +12V)   |                       |                    |
| IC11             |               | XRA17812T         | IC(VOLTAGE REGULATOR/ +12V)   |                       |                    |
| IC12             |               | NJM4580L-D        | IC(OP AMP X2)                 |                       |                    |
| Q1, 2            |               | 2SC2878(B)        | TRANSISTOR                    |                       | J                  |
| Q3, 4            |               | 2SC4137           | TRANSISTOR                    |                       | S                  |
| Q5, 6            |               | 2SD2385           | TRANSISTOR                    |                       | J                  |
| Q7, 8            |               | 2SB1556           | TRANSISTOR                    |                       | S                  |
| Q9, 10           |               | 2SC2631(R, S)     | TRANSISTOR                    |                       | J                  |
| Q11              |               | 2SA1048(V, GR)    | TRANSISTOR                    |                       | J                  |
| Q11              |               | 2SA1175(F, E)     | TRANSISTOR                    |                       | J                  |
| Q11              |               | 2SA1309A(Q, R)    | TRANSISTOR                    |                       | J                  |
| Q11              |               | 2SA933S(G, R)     | TRANSISTOR                    |                       | S                  |
| Q12              |               | 2SA1132(C, S)     | TRANSISTOR                    |                       | J                  |
| Q13, 14          |               | 2SC1845(F, E)     | TRANSISTOR                    |                       | J                  |
| Q15, 16          |               | 2SC1845(F, E)     | TRANSISTOR                    |                       | J                  |
| Q19              |               | 2SC2631(R, S)     | TRANSISTOR                    |                       | J                  |
| Q20              |               | DTC124BS          | DIGITAL TRANSISTOR            |                       | J                  |
| Q21              |               | 2SB1370           | TRANSISTOR                    |                       | J                  |
| Q22              |               | 2SA1048(V, GR)    | TRANSISTOR                    |                       | J                  |
| Q22              |               | 2SA1175(F, E)     | TRANSISTOR                    |                       | J                  |
| Q22              |               | 2SA1309A(Q, R)    | TRANSISTOR                    |                       | J                  |
| Q22              |               | 2SA933S(G, R)     | TRANSISTOR                    |                       | S                  |
| Q23, 24          |               | 2SC1845(F, E)     | TRANSISTOR                    |                       | J                  |

## CONTROL UNIT (X11-343X-XX)

| Ref. No.<br>参照番号 | Address<br>位置 | Parts No.<br>部品番号       | Description<br>部品名 / 規格 | Desti-<br>nation<br>仕 | Re-<br>marks<br>備考 |
|------------------|---------------|-------------------------|-------------------------|-----------------------|--------------------|
| D101-106         |               | LED(LN21CPSLX(V)-(TA4)) |                         |                       |                    |
| C1, 4            |               | CC45FSL1H221J           | CERAMIC                 |                       | J                  |
| C5, 6            |               | CE04KW1H47M             | ELECTR0                 |                       | J                  |
| C5, 6            |               | CE04LW1H47M             | ELECTR0                 |                       | S                  |
| C7, 8            |               | CE04KW1H47M             | ELECTR0                 |                       | J                  |
| C7, 8            |               | CE04LW1H47M             | ELECTR0                 |                       | S                  |
| C9, 10           |               | CC45FSL1H221J           | CERAMIC                 |                       | J                  |
| C11, 12          |               | CF92FV1H23J             | MF                      |                       | J                  |
| C13, 14          |               | CF92FV1H352J            | MF                      |                       | J                  |
| C15, 16          |               | CE04KW1H47M             | ELECTR0                 |                       | J                  |
| C15, 16          |               | CE04LW1H47M             | ELECTR0                 |                       | S                  |
| C17, 40          |               | C91-0749-05             | CERAMIC                 |                       | J                  |
| C41, 42          |               | CE04KW1V100M            | ELECTR0                 |                       | J                  |
| C41, 42          |               | CE04LW1V100M            | ELECTR0                 |                       | S                  |
| C43, 44          |               | CC45FSL1H560J           | CERAMIC                 |                       | J                  |
| C45, 46          |               | CE04KW1C101M            | ELECTR0                 |                       | J                  |

L:Scandinavia  
Y:PX(Far East, Hawaii)  
Y:AAFES(Europe)

K:USA  
T:England  
X:Australia

P:Canada  
E:Europe  
M:Other Areas

△ indicates safety critical components.

\* New Parts

Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

NO.11

| Ref. No.<br>参照番号                                         | Address<br>位置 | New Parts<br>新部品 | Parts No.<br>部品番号                                                         | Description<br>部品名 / 規格                                                                                        | Desti-<br>nation<br>仕向備考           |
|----------------------------------------------------------|---------------|------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------|
| C251-253<br>C251-253<br>C254-255<br>C256<br>C257         |               |                  | CE04KW0331M<br>CE04LW1033Z<br>CK45FF1H03Z<br>CK45FF1H03Z<br>CK45FF1H03Z   | ELECTRØ<br>330UF<br>330UF<br>0.010UF<br>470PF<br>0.010UF                                                       | J<br>S<br><br>J<br>S<br><br>J<br>S |
| C259-260<br>C259-260<br>C261-262<br>C263-264<br>C263-264 |               |                  | CE04KW1010M<br>CE04LW1010M<br>CK45FF1H03Z<br>CE04KW0331M<br>CE04LW0331M   | ELECTRØ<br>100UF<br>100UF<br>0.010UF<br>330UF<br>6.3KV                                                         | J<br>S<br><br>J<br>S<br><br>J<br>S |
| C301-302<br>C303-304<br>C303-304<br>C305<br>C306         |               |                  | C90-3253-05<br>CE04KW1A101M<br>CE04LW1A101M<br>C90-3253-05<br>CK45FF1H03Z | ELECTRØ<br>11UF<br>100UF<br>100UF<br>10UF<br>50WV                                                              | J<br>S<br><br>J<br>S<br><br>J<br>S |
| C307-308<br>C309<br>C310<br>C311-312<br>C311-312         |               |                  | C90-3256-05<br>CK45FF1H03Z<br>C91-0769-05<br>CE04KW1A101M<br>CE04LW1A101M | ELECTRØ<br>4.7UF<br>0.010UF<br>0.010UF<br>100UF<br>10WV                                                        | J<br>S<br><br>J<br>S<br><br>J<br>S |
| C313-314<br>C315<br>C316<br>C317<br>C318                 |               |                  | CK45FF1H03Z<br>C91-0769-05<br>CK45FF1H03Z<br>C91-0769-05<br>CK45FF1H03Z   | CERAMIC<br>0.010UF<br>0.010UF<br>0.010UF<br>0.010UF<br>Z                                                       | J<br>S<br><br>J<br>S<br><br>J<br>S |
| C319<br>C320<br>C321                                     |               |                  | C90-3214-05<br>CE04KW1A101M<br>CE04LW1A101M                               | ELECTRØ<br>100UF<br>0.047F<br>100UF<br>10WV                                                                    | J<br>S<br><br>J<br>S               |
| CN4<br>CN5<br>J1<br>J2 , 3<br>J4                         | 28<br>1C      |                  | E40-4161-05<br>E40-4201-05<br>E63-0072-1S<br>E63-0072-1S<br>E63-0067-1S   | FLAT CABLE CONNECTOR<br>PHONO JACK PHONO<br>PHONO JACK TUNER, TAPE, MD, CD<br>PHONO JACK VIDEO, AV/AUX, ADPTER | J<br>S<br><br>J<br>S<br><br>J<br>S |
| J5<br>J6<br>J7<br>J9<br>J9                               |               |                  | E63-0091-05<br>E63-0093-05<br>E63-0094-05<br>E03-0108-05<br>E03-0108-05   | PHONO JACK ADAPTER/IN, OMNI<br>PHONO JACK VISUAL MONITOR<br>AC OUTLET<br>AC OUTLET                             | M<br>E<br>M<br>8<br>8              |
| J10                                                      |               |                  | E03-0109-05                                                               | AC OUTLET                                                                                                      | T<br>9                             |
| F11 , 12<br>F12<br>F12 , 13<br>J17                       |               |                  | F05-2525-05<br>F05-2525-05<br>F05-2525-05<br>F10-0937-03                  | FUSE (SEMØ) (250V T2.5A)<br>FUSE (SEMØ) (250V T2.5A)<br>FUSE (SEMØ) (250V T2.5A)<br>SHIELDING PLATE            | M<br>X<br>X<br>TE                  |
| CN10-13<br>CN10,11<br>CN10,11<br>CN14,15                 |               |                  | J13-0075-05<br>J13-0075-05<br>J13-0075-05                                 | FUSE CLIP<br>FUSE CLIP<br>FUSE CLIP                                                                            | M<br>XTE<br>X<br>8<br>9            |
| L1 , 2<br>T1<br>T1<br>T1<br>T1                           |               |                  | L40-1011-17<br>L07-0720-05<br>L07-0721-05<br>L07-0721-05                  | SMALL FIXED INDUCTOR(100UH,K)<br>POWER TRANSFORMER<br>POWER TRANSFORMER<br>POWER TRANSFORMER                   | M<br>XTE<br>X<br>8<br>S            |

L:Scandinavia K:USA P:Canada  
Y:PX(Far East, Hawaii) T:England E:Europe  
Y:AFES(Europe) X:Australia M:Other Areas

△印は安全部品  
△ indicates safety critical components.

\* New Parts

Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

NO.12

| Ref. No.<br>参照番号                                       | Address<br>位置 | New Parts<br>新部品 | Parts No.<br>部品番号                                                        | Description<br>部品名 / 規格                                                                                            | Desti-<br>nation<br>仕向備考           |
|--------------------------------------------------------|---------------|------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------|
| T1<br>T1<br>X1                                         |               |                  | L07-0814-05<br>L07-0814-05<br>L78-0267-05                                | POWER TRANSFORMER<br>POWER TRANSFORMER<br>RESONATOR 4.194MHz                                                       | XTE<br>9<br>8<br>S                 |
| R198-262<br>VR1 , 2<br>VR3                             |               |                  | RD14NB2E470J<br>RD14NB2E151J<br>R10-3954-05<br>R05-3037-05               | RD 47.<br>150 J 1/4W<br>POTENTIOMETER(10K) BASS, TREBLE<br>POTENTIOMETER(10K) BALANCE                              | J<br>S<br><br>J<br>S               |
| △ K1<br>△ S10<br>△ S11                                 |               |                  | S76-0002-05<br>S60-1064-05<br>S62-0001-05<br>SS1-2322-05                 | MAGNETIC RELAY<br>PUSH SWITCH KEY BOARD<br>SLIDE SWITCH VOLTAGE SELECTOR<br>SLIDE SWITCH VOLTAGE SELECTOR          | M<br>M<br><br>M                    |
| S9                                                     |               |                  | T99-0530-05                                                              | ROTARY ENCODER INPUT SELECTOR                                                                                      | M                                  |
| D1 -15<br>D1 -15<br>D17<br>D17<br>D19 -25              |               |                  | HSS104<br>HSS133<br>HSS133<br>HSS133<br>HSS104                           | DIODE<br>DIODE<br>DIODE<br>DIODE<br>DIODE                                                                          | J<br>S<br><br>J<br>S<br><br>J<br>S |
| D19 -25<br>D26<br>D31 -39<br>D31 -39<br>D40            |               |                  | SS133<br>KBP02ML-6127<br>HSS104<br>SS133<br>HSS133<br>HZSS-6N(B2)        | DIODE<br>DIODE<br>DIODE<br>DIODE<br>ZENER DIODE                                                                    | J<br>S<br><br>J<br>S<br><br>J<br>S |
| D40<br>D41 -45<br>D41 -45<br>D51 , 52<br>D51 , 52      |               |                  | R05-6ES(B2)<br>HSS104<br>SS133<br>HZS13N(B2)<br>R013ES(B2)               | ZENER DIODE<br>DIODE<br>DIODE<br>ZENER DIODE<br>ZENER DIODE                                                        | J<br>S<br><br>J<br>S<br><br>J<br>S |
| D53 -55<br>D53 -55<br>D251-254<br>D251-254<br>D255,256 |               |                  | HSS104<br>SS133<br>HSS104<br>SS133<br>HZSS-6N(B2)                        | DIODE<br>DIODE<br>DIODE<br>DIODE<br>ZENER DIODE                                                                    | J<br>S<br><br>J<br>S<br><br>J<br>S |
| D255,256<br>D257,258<br>D257,258<br>ED1<br>IC1         |               |                  | R05-6ES(B2)<br>HSS104<br>SS133<br>10-BT-120GK<br>TC9274N-003             | ZENER DIODE<br>DIODE<br>DIODE<br>INDICATOR TUBE<br>IC(ANALOG SWITCH)                                               | J<br>S<br><br>J<br>S<br><br>J<br>S |
| IC2<br>IC2<br>IC3 , 4<br>IC3<br>IC5                    |               |                  | NJU7313L<br>TC9164N<br>TC9213P<br>NJM4565D-D<br>XRA15218-DX              | IC(ANALOG SWITCH)<br>IC(16CH BILATERAL SELECTOR SW)<br>IC(2CH ELECTRONIC VOLUME)<br>IC(OP AMP X2)<br>IC(OP AMP X2) | J<br>S<br><br>J<br>S<br><br>J<br>S |
| IC6<br>IC7<br>IC7<br>IC8 -10<br>IC11,12                |               |                  | NJM4565L-D<br>NJM4565L-D<br>XRA15218-DX<br>NJM20580<br>NJM4565L-D        | IC(OP AMP X2)<br>IC(OP AMP X2)<br>IC(OP AMP X2)<br>IC(OP AMP X4)<br>IC(OP AMP X2)                                  | J<br>S<br><br>J<br>S<br><br>J<br>S |
| IC13<br>IC101<br>IC102<br>IC102<br>Q1                  |               |                  | CXA1558L<br>UPD78042QF-039<br>MN1381-R(TA)<br>S-80740AL<br>2SC3940A(R,S) | IC<br>IC(MICROPROCESSOR)<br>IC(VOLTAGE DETECT)<br>IC(VOLTAGE DETECTOR)<br>TRANSISTOR                               | J<br>S<br><br>J<br>S<br><br>J<br>S |
| Q2                                                     |               |                  | 2SA1534A(R,S)                                                            | TRANSISTOR                                                                                                         | J<br>S<br><br>J<br>S<br><br>J<br>S |

L:Scandinavia K:USA P:Canada  
Y:PX(Far East, Hawaii) T:England E:Europe  
Y:AFES(Europe) X:Australia M:Other Areas

△印は安全部品  
△ indicates safety critical components.

\* New Parts

Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

NO.13

| Ref. No.<br>参照番号                     | Address<br>位置 | New Parts<br>新部品 | Parts No.<br>部品番号                                                               | Description<br>部品名 / 規格                                                                    | Desti-<br>nation<br>仕向備考           |
|--------------------------------------|---------------|------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------|
| Q101<br>Q101<br>Q101<br>Q101<br>Q102 |               |                  | 2SC1740S(Q,R)<br>2SC2458(Y,GR)<br>2SC2785(F,E)<br>2SC3311A(Q,R)<br>2SC2003(L,K) | TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR                         | J<br>S<br><br>J<br>S<br><br>J<br>S |
| Q103<br>Q103<br>Q103<br>Q104-109     |               |                  | 2SC1740S(Q,R)<br>2SC2458(Y,GR)<br>2SC2785(F,E)<br>2SC3311A(Q,R)                 | TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR                                       | J<br>S<br><br>J<br>S<br><br>J<br>S |
| Q104-109<br>A1                       |               |                  | DT0124ES<br>UN4212<br>W02-1174-05<br>X25-5470-11                                | DIGITAL TRANSISTOR<br>DIGITAL TRANSISTOR<br>ELECTRIC CIRCUIT MODULE<br>REMOTE CONTROL UNIT | J<br>S<br><br>J<br>S<br><br>J<br>S |

L:Scandinavia K:USA P:Canada  
Y:PX(Far East, Hawaii) T:England E:Europe  
Y:AFES(Europe) X:Australia M:Other Areas

△印は安全部品  
△ indicates safety critical components.

## PARTS LIST

## PARTS LIST

# A-87/97

## SPECIFICATIONS

Rated power output at the STEREO operation  
(IEC/NF) from 63 Hz to 12,500Hz, 0.7% T.H.D.

at 8Ω ..... 85W+85W  
(DIN) 1,000Hz at 8Ω ..... 85W+85W

Power output at the Surround operation

Front (1kHz, 0.08% T.H.D. at 8Ω) ..... 85W+85W  
Omni (1kHz, 0.5% T.H.D. at 8Ω) ..... 25W+25W  
Center (1kHz, 0.5% T.H.D. at 8Ω) ..... 25W  
Rear (1kHz, 0.5% T.H.D. at 8Ω) ..... 25W+25W

Total harmonic distortion (1kHz, 8Ω) ..... 0.02% at 40W

Signal to noise ratio (IHF '66)

PHONO (MM) ..... 72dB  
CD/LD, TAPE ..... 90dB

Signal to noise ratio (DIN weighted at 50mW output)

PHONO (MM) ..... 56dB  
CD/LD, TAPE ..... 57dB

Input sensitivity/impedance

PHONO (MM) ..... 2.5mV/47kΩ  
CD/LD, TAPE ..... 200mV/47kΩ

Tone controls

BASS ..... ±10dB (at 100Hz)  
TREBLE ..... ±10dB (at 10kHz)

VIDEO inputs/outputs

(composite) ..... 1Vp-p/75Ω

General

Power consumption ..... 280W

Dimensions ..... W : 360 mm

H : 129 mm

D : 378 mm

Weight (net) ..... 11.3kg

AC outlets (switched) ..... 1 (Total 200W max)

Kenwood follows a policy of continuous advancements in development.  
For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement.  
Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an.  
Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

### Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

## KENWOOD CORPORATION

Alive Mitake, 2-5, 1-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

KENWOOD U.S.A. CORPORATION

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.  
550 Clark Drive, Mount Olive, New Jersey 07828, U.S.A.  
99-994 Iwaena St. Aiea, Hawaii 96701

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O. BOX 55-2791, Piso 6 Plaza Chase, Cl. 47 y Aquilino de la Guardia, Panama, Republic de Panama

TRIO-KENWOOD U.K. LIMITED

Kenwood House, Dwight Road, Watford, Herts, WD1 8EB, United Kingdom

KENWOOD ELECTRONICS BENELUX N.V.

Mechelsesteenweg 418 B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker Str. 15, 63150 Heusenstamm, Germany

TRIO-KENWOOD FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

KENWOOD LINEAR S.p.A.

20125, Milano-Via Arde, 50, Italy

KENWOOD ESPAÑA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N. 001 499 074)

P.O. BOX 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Unit 3712-3724, Level 37 Tower 1, Metroplaza, 223 Hing Fong Road,

Kwai Fong N.T. Hong Kong

KENWOOD ELECTRONICS SINGAPORE PTE LTD

No. 1 Genting Lane #07-00, Singapore, 1334