

STEREO INTEGRATED AMPLIFIER

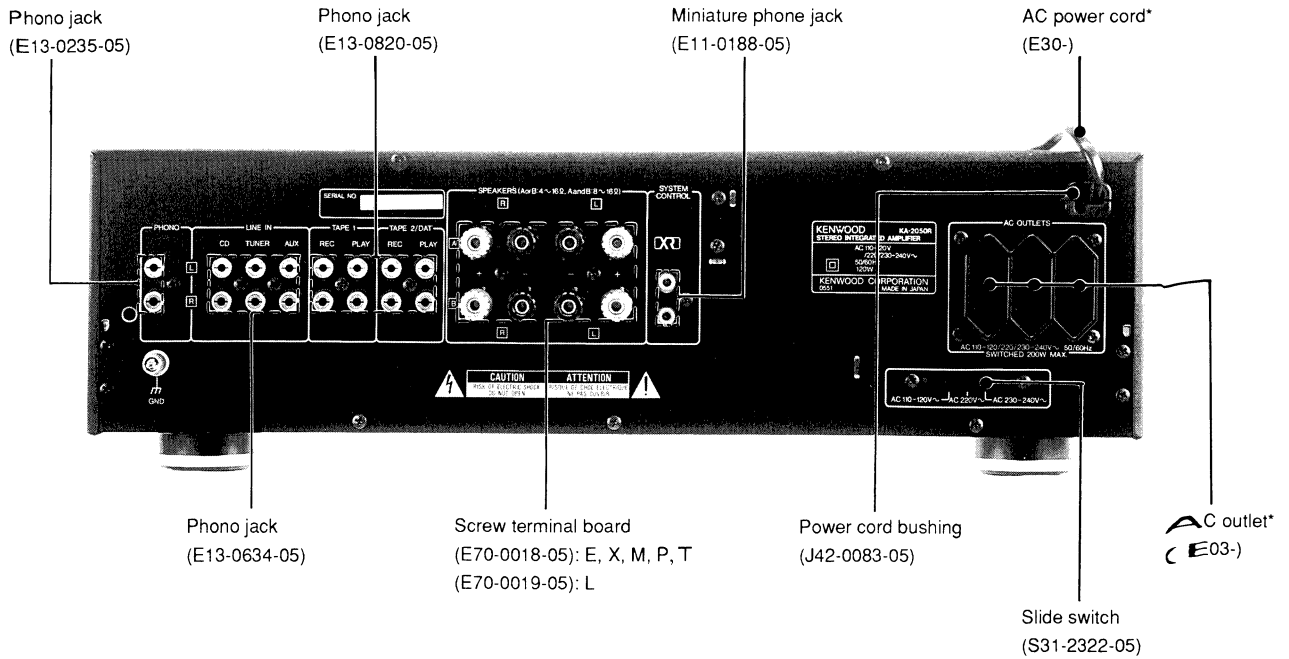
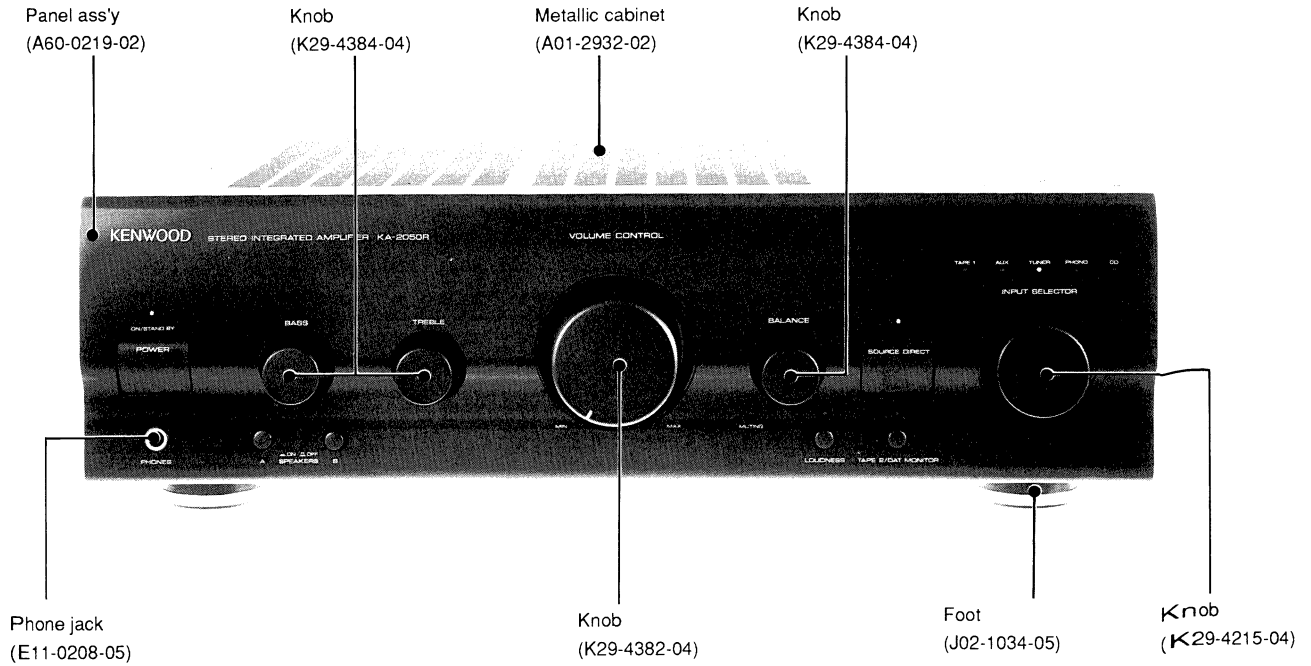
KA-2050R/3050R

SERVICE MANUAL

KENWOOD

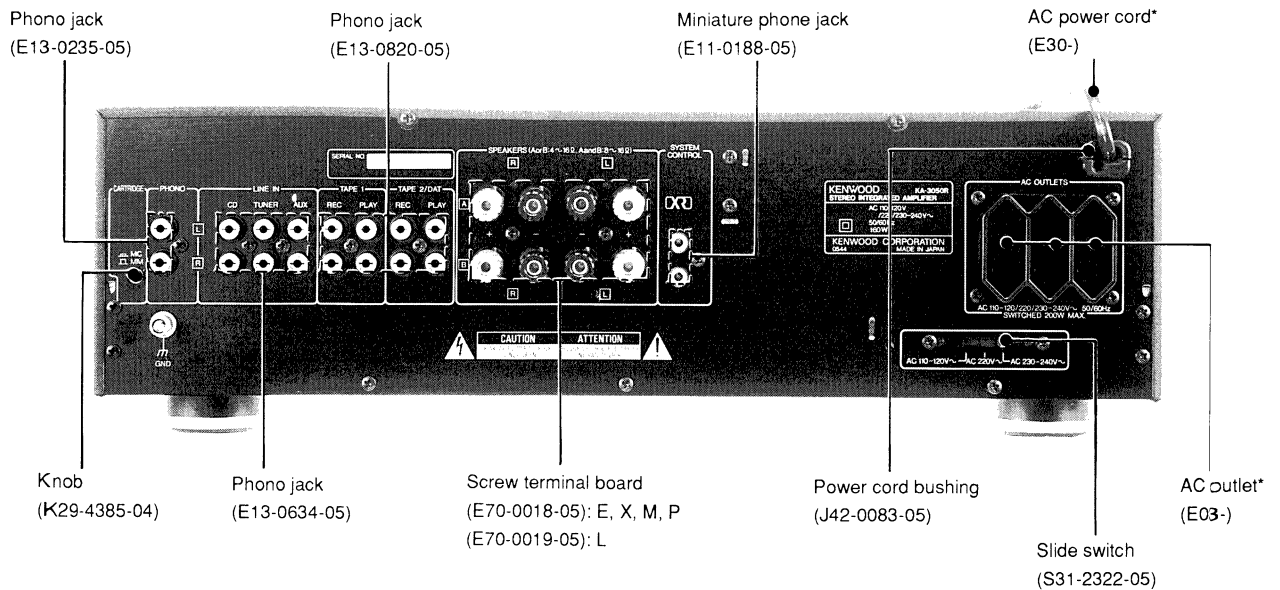
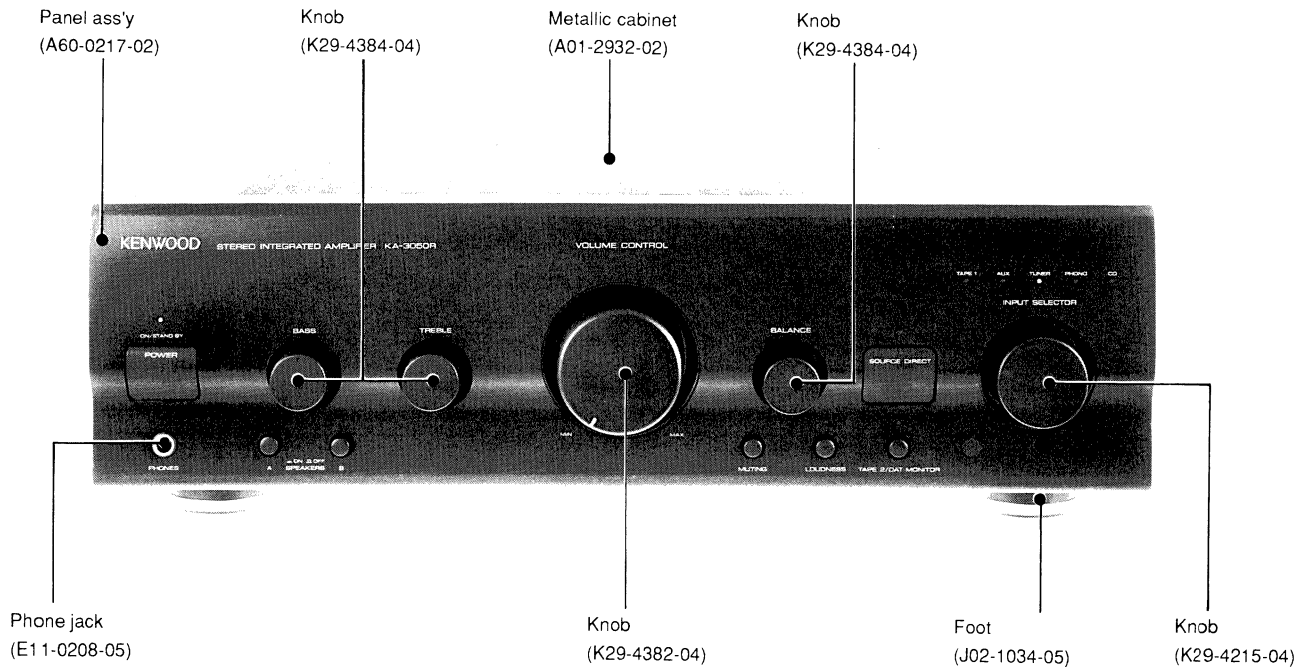
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B51-4546-00 (S) 2349

(KA-2050R)



* Refer to parts list on page 17.

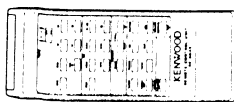
KA-2050R/3050R



* Refer to parts list on page 17.

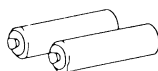
Accessories

- Remote control unit 1

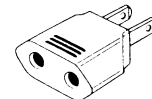


(A70-0597-05)
(A09-0094-08) : Battery cover

- Batteries (R03/UM-4/ 'AAA') 2



- AC plug adaptor 1
(Except for some areas)
For the unit with a European AC plug in areas other than Europe.



(E03-0115-05)

ADJUSTMENT/REGLAGES/ABGLEICH

ADJUSTMENT

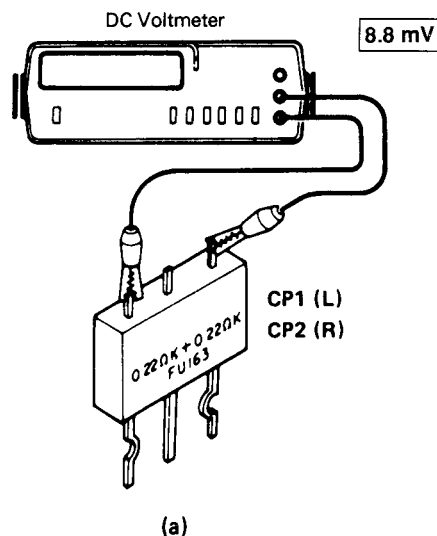
| No. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | AMPLIFIER SETTING | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|--------------------------------------------------------------------------------------------------------------------------|--------------|----------------|------------------------------------------------------|-------------------|------------------------|-----------|------|
| Unless otherwise specified, set the respective switches as follows: POWER: ON SPEAKER: B REC OUT: OFF SELECTOR: PHONO | | | | | | | |
| 1 | IDLE CURRENT | - | Connect a DC voltmeter across CP1 (L) CP2 (R) (X09-) | VOLUME: 0 | VR1 (L) VR2 (R) (X09-) | 8.8 mV | (a) |

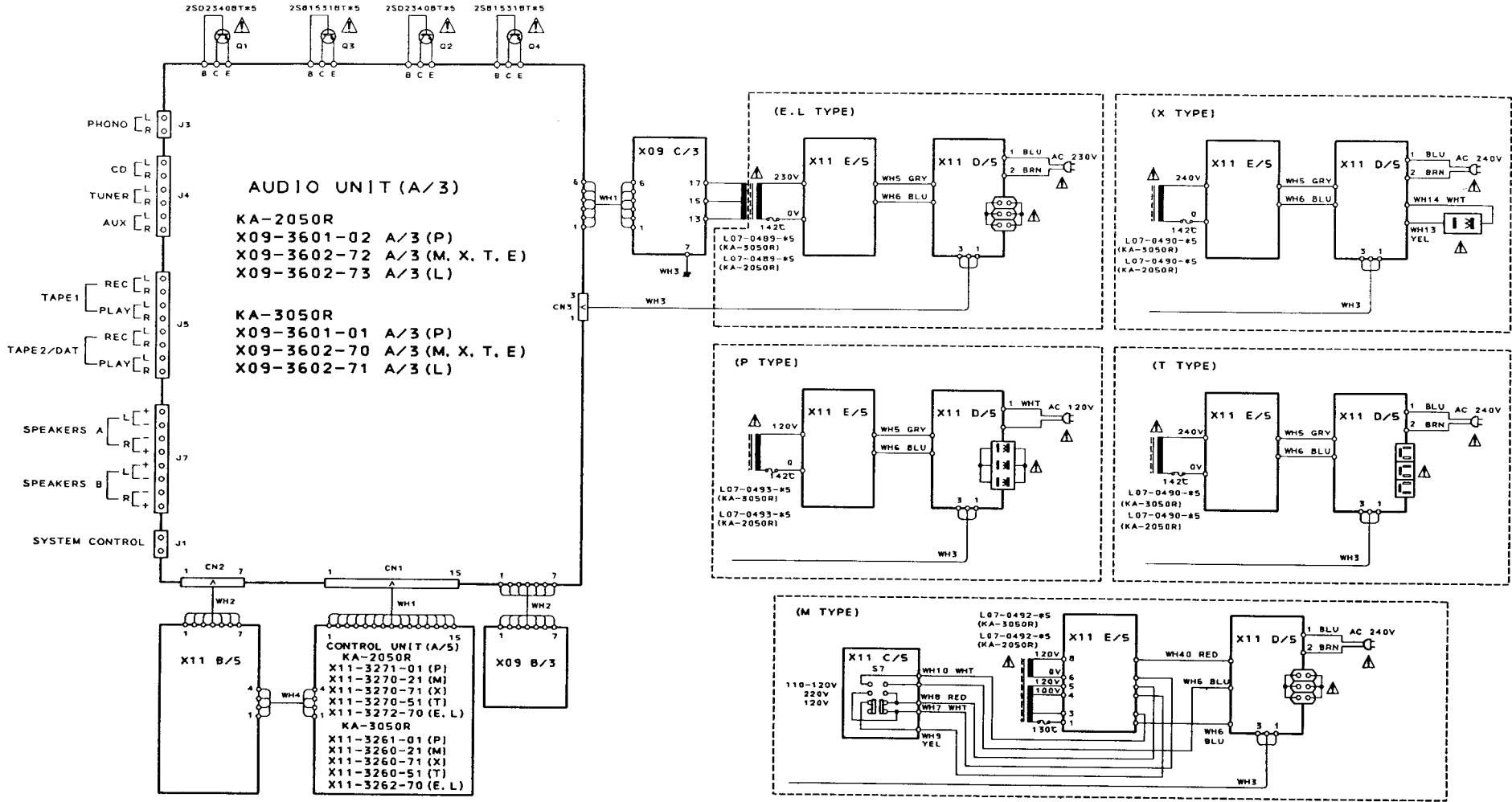
REGLAGES

| N | ITEM | REGLAGE DE L'ENTREE | REGLAGE DE LA SORTIE | REGLAGE DE L'AMPLIFICATEUR | POINTS DE L'ALIGNMENT | ALIGNER POUR | FIG. |
|------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------|---------------------------------------------------------|----------------------------|------------------------|--------------|------|
| Sauf indication contraire, régler comme suit les commandes respectives: POWER: ON SPEAKER: B REC OUT: OFF SELECTOR: PHONO | | | | | | | |
| 1 | COURANT DE POLARISATION | - | Connecter un voltmètre de CC SUR CP1 (G) CP2 (D) (X09-) | VOLUME: 0 | VR1 (G) VR2 (D) (X09-) | 8.8 mV | (a) |

ABGLEICH

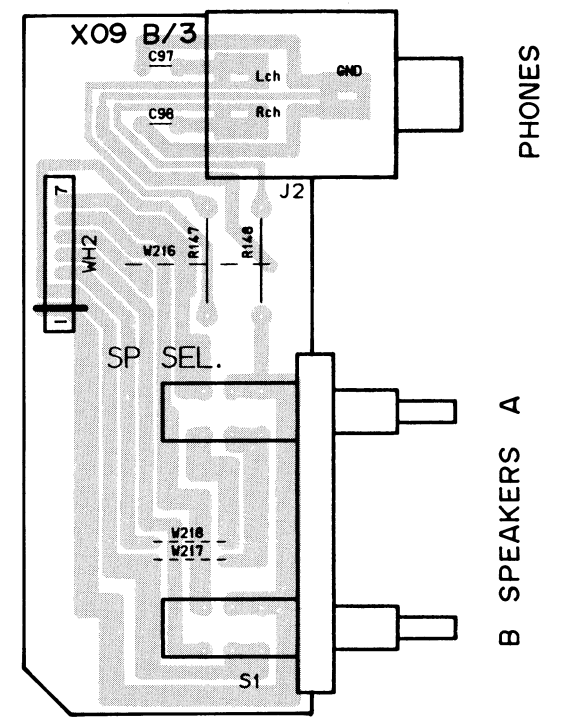
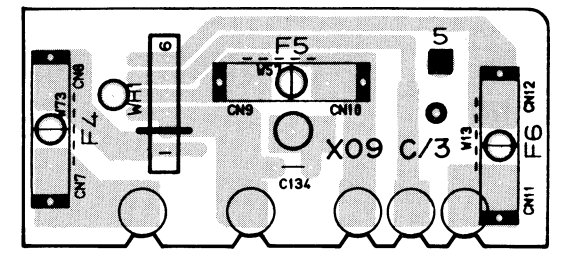
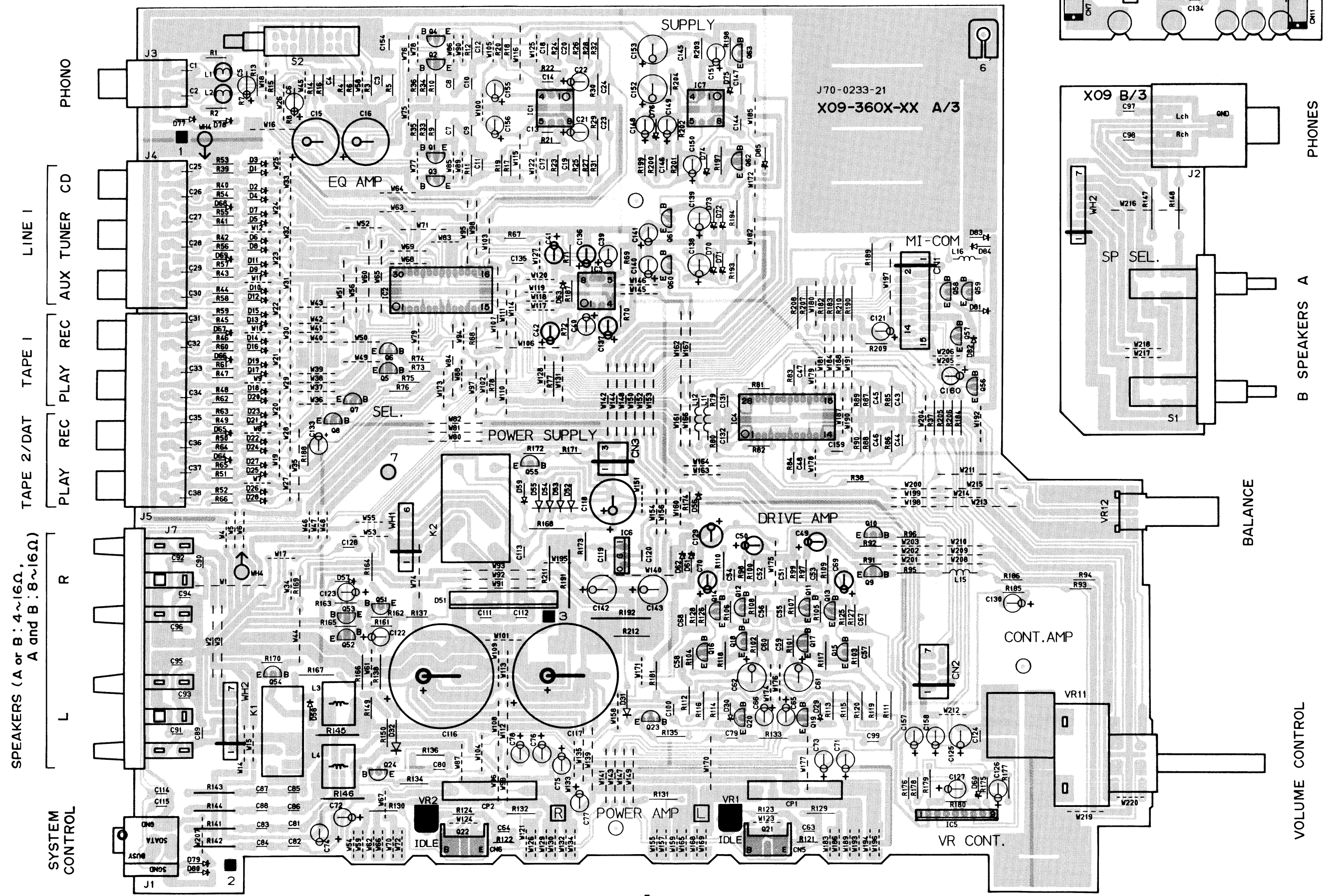
| NR. | GENGENSTAND | EINGANGS-EINSTELLUNG | AUSANG-EINSTELLUNG | VORSTÄRKER-EINSTELLUNG | ABGLEICHE-PUNKTE | ABGLEICHEN FÜR | ABB. |
|--------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------|----------------------------------------------------------------------|------------------------|------------------------|----------------|------|
| Wenn nicht anders angegeben, die einzelnen Schalter wie folgt einstellen: POWER: ON SPEAKER: B REC OUT: OFF SELECTOR: PHONO | | | | | | | |
| 1 | LEERLAUFSTROM | - | Einen Gleichspannungsmesser über CP1 (L) CP2 (R) anschließen. (X09-) | VOLUME: 0 | VR1 (L) VR2 (R) (X09-) | 8.8 mV | (a) |





PC BOARD (Component side view)

AUDIO UNIT



SPEAKERS (A or B : 4~16Ω,
A and B : 8~16Ω)

SYSTEM CONTROL
L R
TAPE 2/DAT TAPE 1 LINE 1
PLAY REC PLAY REC REC REC
AUX TUNER CD
PHONO

BALANCE

VOLUME CONTROL

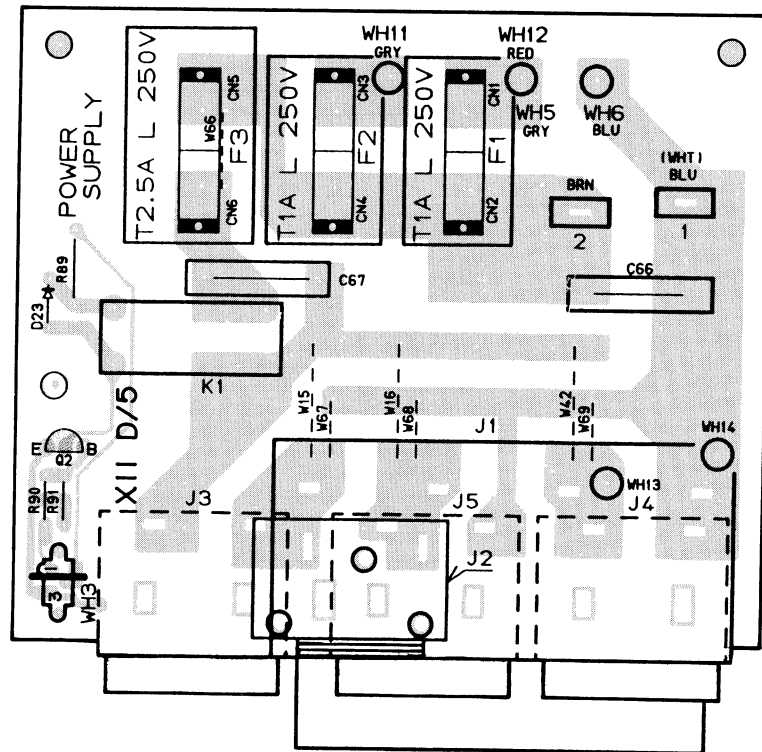
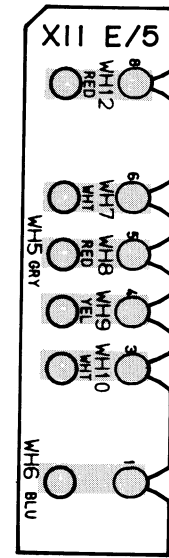
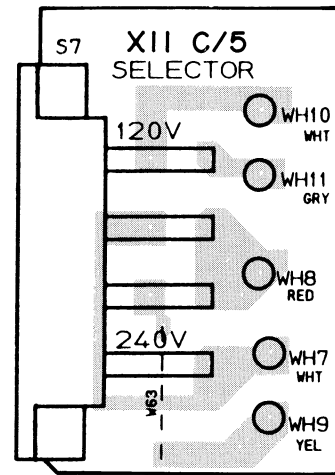
B SPEAKERS A

PHONES

PC BOARD (Component side view)

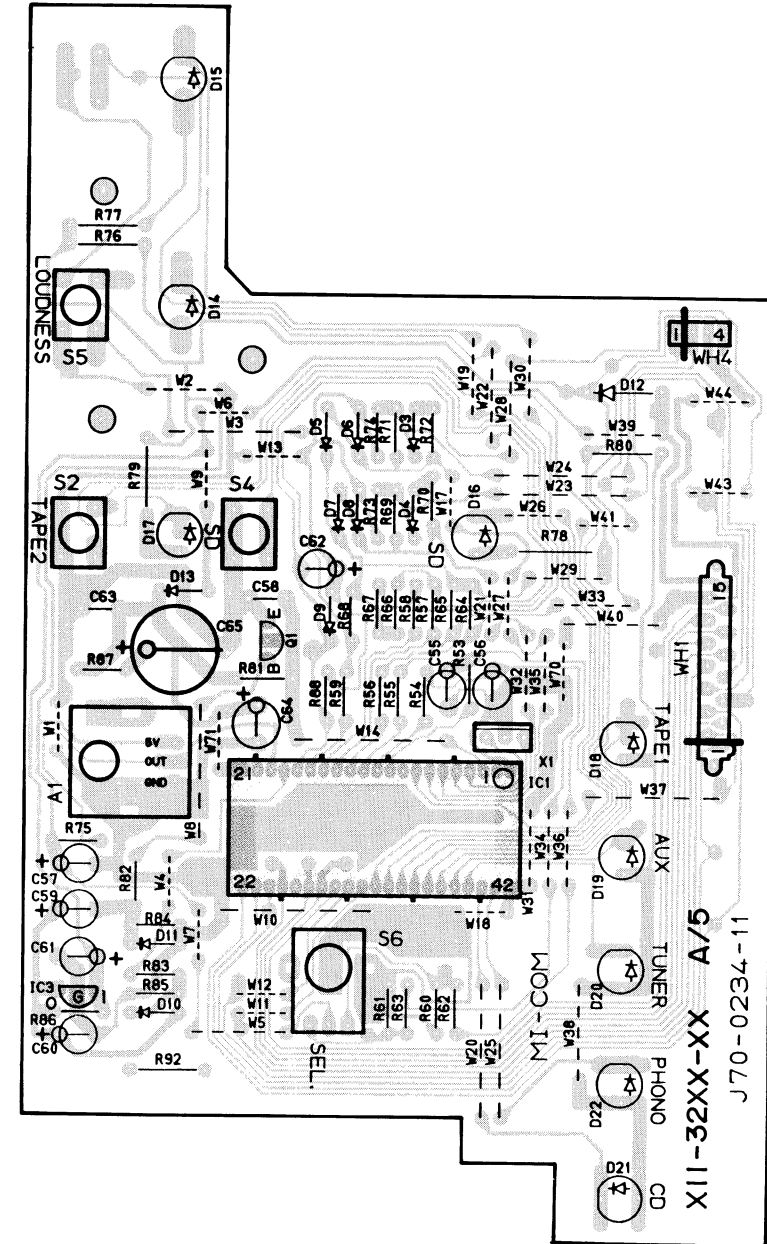
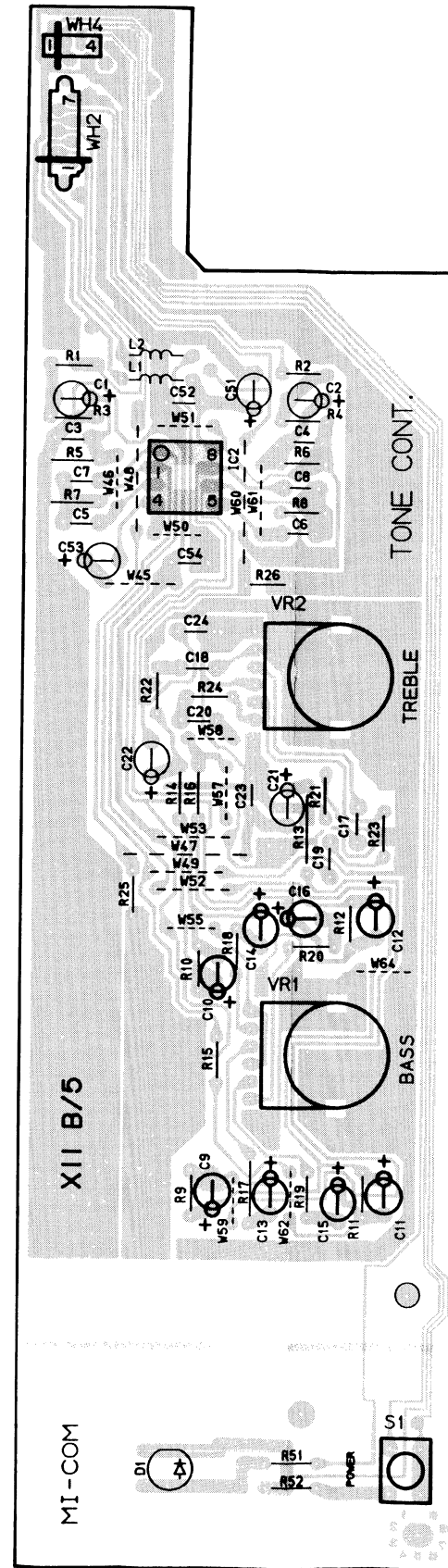
CONTROL UNIT

AC230-240V~ AC220V~ AC110-120V~

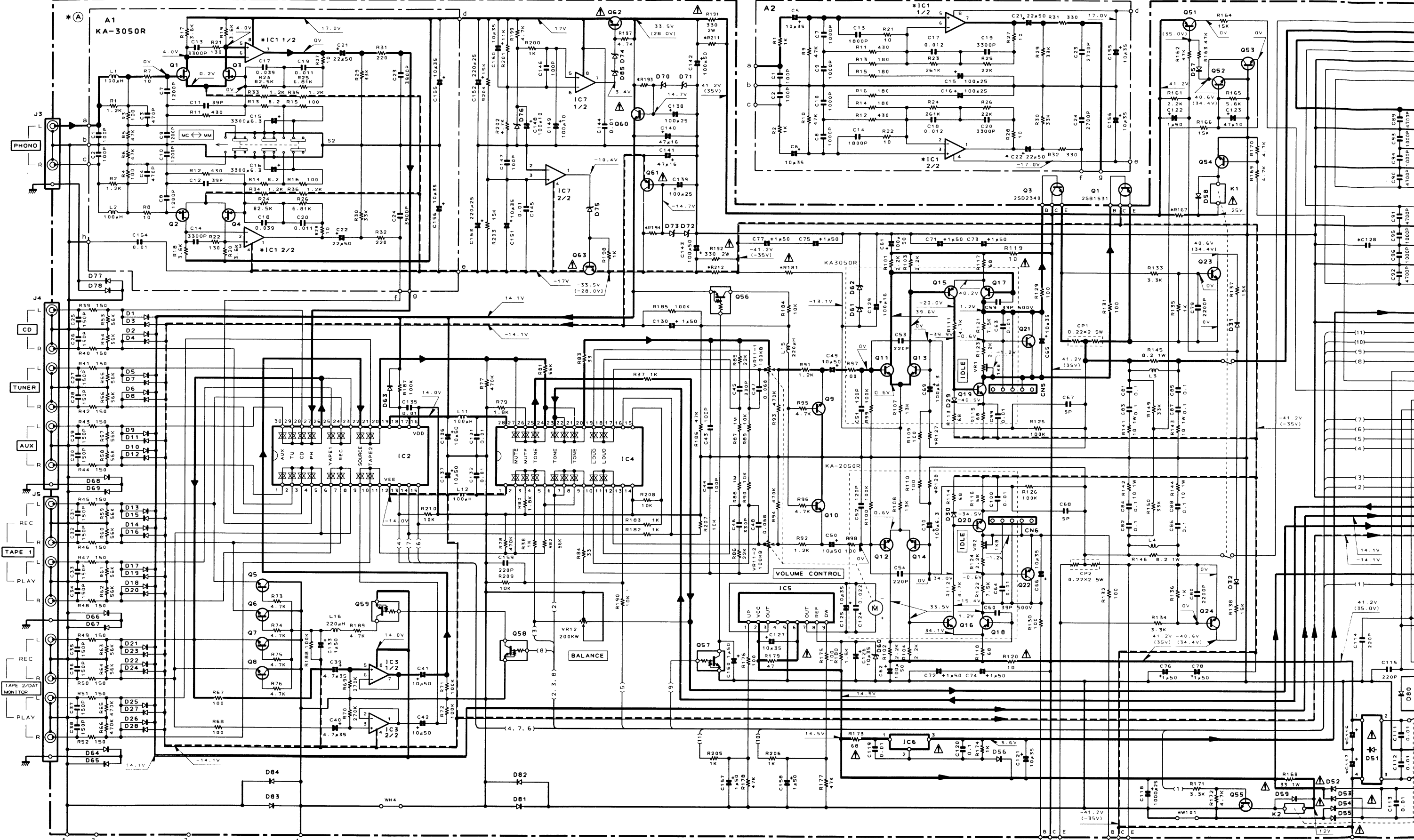


AC110-120/220/230-240V~ 50/60Hz
SWITCHED 200W MAX

AC OUTLETS



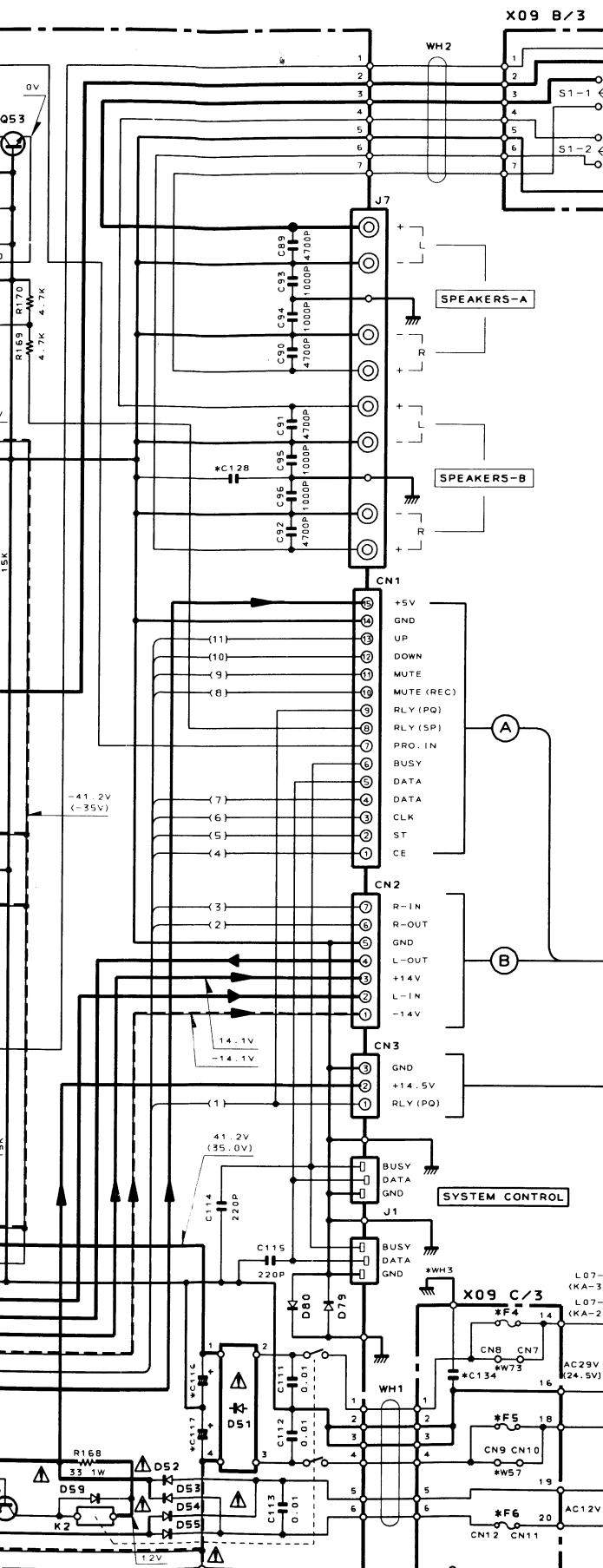
Refer to the schematic diagram for the values of resistors and capacitors.



2
3
4
5
6
7

(11)
(10)
(9)
(8)
(7)
(6)
(5)
(4)
(3)
(2)

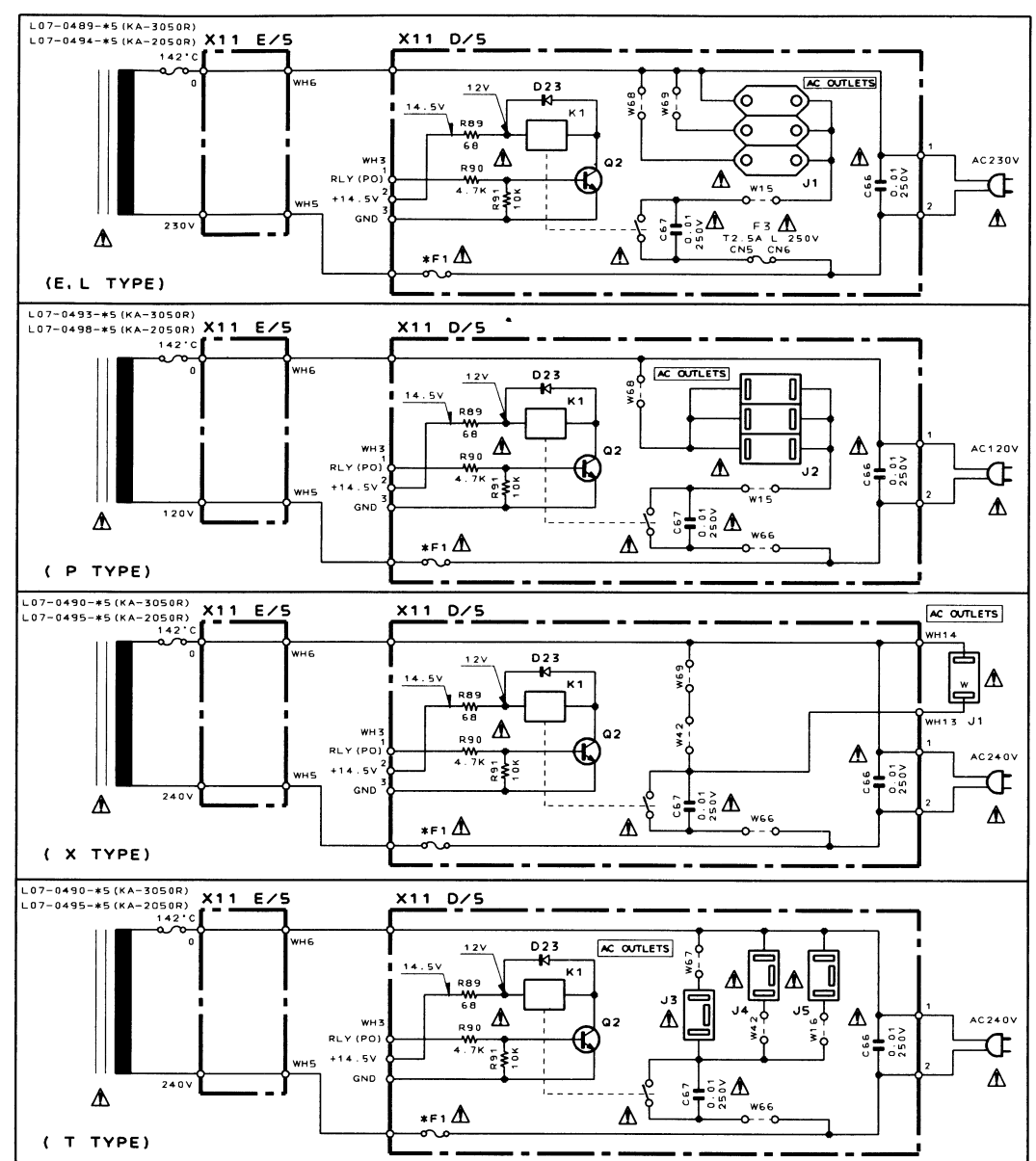
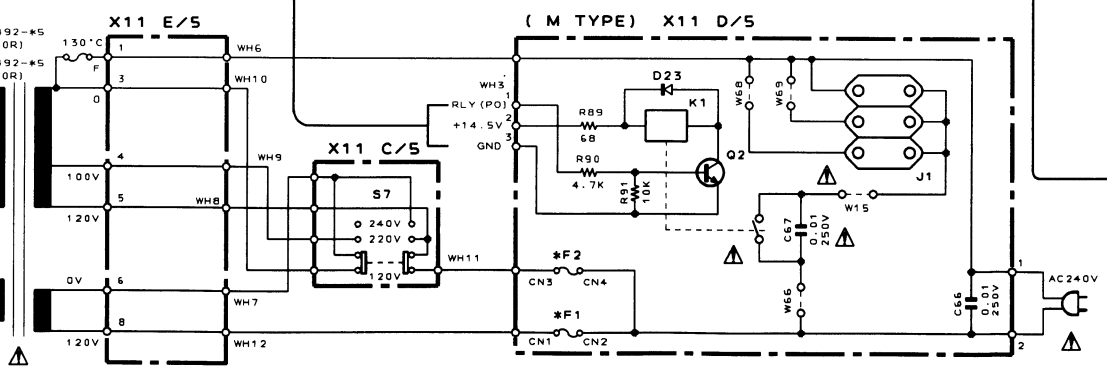
25D2340 25B1531



X09-360X-XX

| COUNTRY | KA-3050R | | | KA-2050R | | |
|-------------------------------------|---------------------------------------------------------------|-----------------|-------------|---------------------------------------------------------------|-----------------|-------------|
| | OTHER AREAS (M) AUSTRALIA (X) ENGLAND (T) EUROPE (E) | SCANDINAVIA (L) | CANADA (P) | OTHER AREAS (M) AUSTRALIA (X) ENGLAND (T) EUROPE (E) | SCANDINAVIA (L) | CANADA (P) |
| UNIT NAME | X09-3602-70 | X09-3602-71 | X09-3601-01 | X09-3602-72 | X09-3602-73 | X09-3601-02 |
| REF. NO | | | | | | |
| (A) | A1 | A1 | A1 | A2 | A2 | A2 |
| IC1 | NJM4565D | NJM4565D | NJM4565D | NJM4580D-D | NJM4580D-D | NJM4580D-D |
| C116, 117 | 6800µ50 | 6800µ50 | 6800µ50 | 5600µ42 | 5600µ42 | 5600µ42 |
| C128, 134 | 0.01 | 0.01 | NO | 0.01 | 0.01 | NO |
| R127, 128 | 11K | 11K | 11K | 9.1K | 9.1K | 9.1K |
| R167 | 820 1W | 820 1W | 820 1W | 470 1W | 470 1W | 470 1W |
| R181 | 3.9K | 3.9K | 3.9K | 3.3K | 3.3K | 3.3K |
| R193, 194 | 4.7K | 4.7K | 4.7K | 3.9K | 3.9K | 3.9K |
| R211, 212 | 820 1W | 820 1W | 820 1W | NO | NO | NO |
| F4, 5 | NO | NO | 6A 125V | NO | NO | 5A 125V |
| F6 | T1A L 250V | T1A L 250V | 1A 250V | T1A L 250V | T1A L 250V | 1A 250V |
| W18, 45, 58 75~78 89, 90, 115 | YES | YES | YES | NO | NO | NO |
| W57, 73 | YES | YES | NO | YES | YES | NO |
| W85, 86 122, 125 | NO | NO | NO | YES | YES | YES |
| W101 | NO | NO | YES | NO | NO | YES |
| WH3 | YES | YES | NO | YES | YES | NO |

- X09-360X-XX
- IC1 : NJM4565D (3050R)
 - IC2 : NJM4580D-D (2050R)
 - IC3 : NJM4580D-D
 - IC4 : TC9163N
 - IC5 : TA8409S
 - IC6 : PC7805AHF or TA7805S
 - IC7 : NJM4565D-D
- Q1~4 : 2SK170 (BL. V)
 - Q5~10 : 2SC2878 (B)
 - Q11~14 : 2SC1845 (F. E)
 - 19, 20 : 2SC4137 (V. W)
 - Q15~18 : 2SA992 (F. E)
 - Q21, 22 : 2SC4137 (V. W)
 - Q23, 24 : 2SC2458 (Y. GR)
 - 52, 53 : 2SC3311A (Q. R)
 - Q51 : 2SA1048 (Y. GR) or 2SA1309A (Q. R)
 - Q54, 55 : 2SC2003 (L. K)
 - Q56, 59 : UN4112 or DTA124ES
 - Q57, 58 : UN4212 or DTC124ES
 - Q60, 62, 63 : 2SD863 (E. F)
 - Q61 : 2SB764 (E. F)
 - D1~30, 56 : 1SS133
 - 57, 63~69, 77~84 or HSS104
 - D31, 32 : 1SS131
 - 58, 59 : 1SS104A
 - D51 : RBV-602LFA or D55BA20F03
 - D52~55 : S5688B
 - D60, 76 : RD5.1JS (B2)
 - D61, 62 : RD7.5JS (B)
 - 70~74, 85 : RDZ57.5S (B2)
 - D75 : RD20JS (B) or HZS20S (B)



- X11-32XX-XX
- Q2 : 2SC2003 (L. K)
 - D23 : 1SS133 or HSS104

X11-32XX-XX

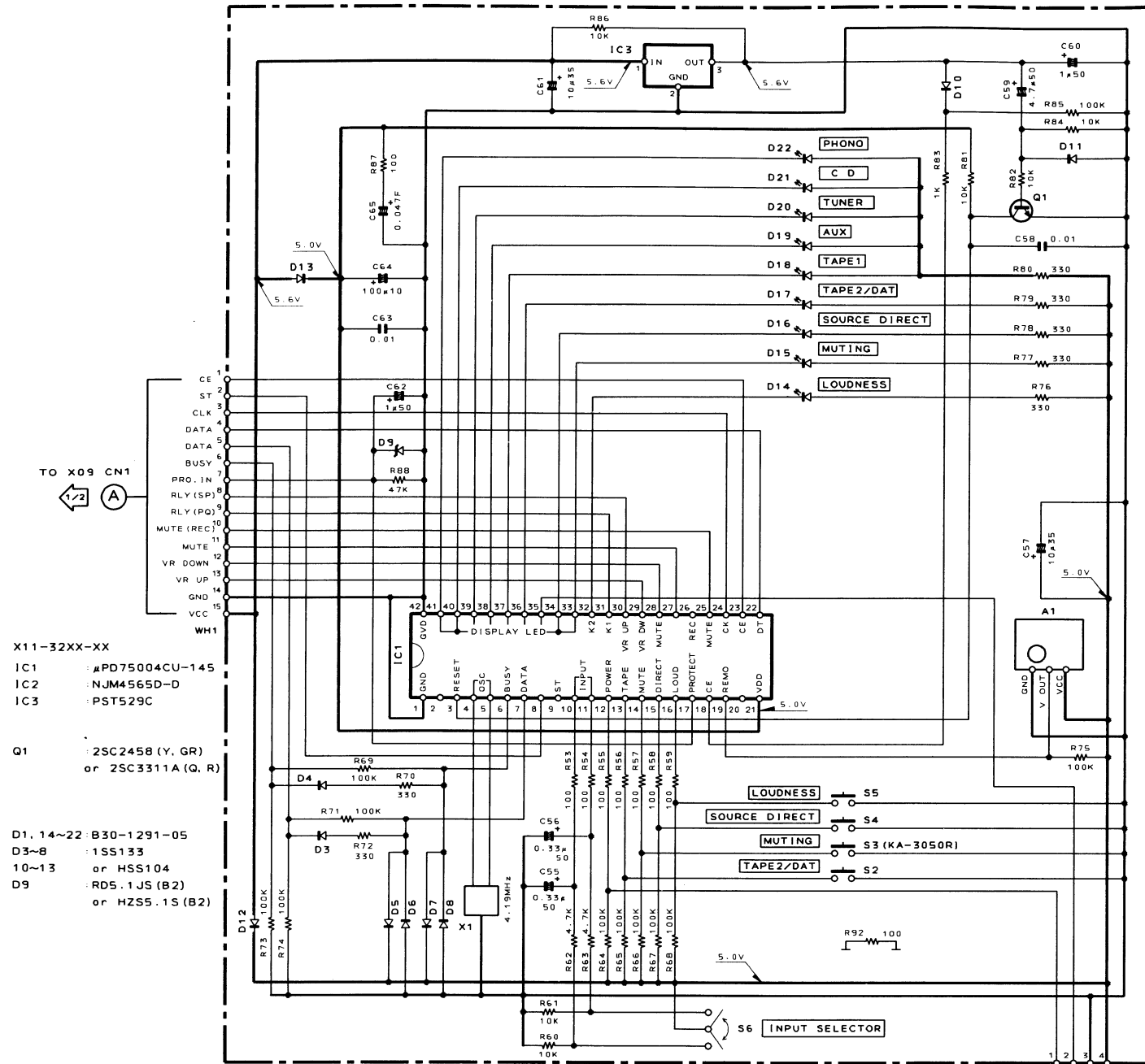
| COUNTRY | ABB | KA-3050R | | | KA-2050R | | | | |
|---------------------|------|-------------|---------|--------|----------|-------------|-------------|--------|--------|
| | | UNIT NAME | REF. NO | F1 | F2 | UNIT NAME | REF. NO | F1 | F2 |
| CANADA | P | X11-3261-01 | 4A | 125V | NO | X11-3271-01 | 2A | 250V | NO |
| OTHER AREAS | M | X11-3260-21 | T1.6A | L 250V | T1.6A | L 250V | X11-3270-21 | T1A | L 250V |
| AUSTRALIA | X | X11-3260-71 | T1.6A | L 250V | NO | X11-3270-71 | T1A | L 250V | NO |
| ENGLAND | T | X11-3260-51 | T1.6A | L 250V | NO | X11-3270-51 | T1A | L 250V | NO |
| EUROPE, SCANDINAVIA | E. L | X11-3262-70 | T1.6A | L 250V | NO | X11-3272-70 | T1A | L 250V | NO |

— SIGNAL LINE
 — GND LINE
 — +B LINE
 - - -B LINE

KA-2050R/3050R
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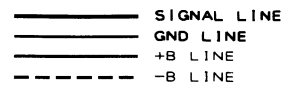
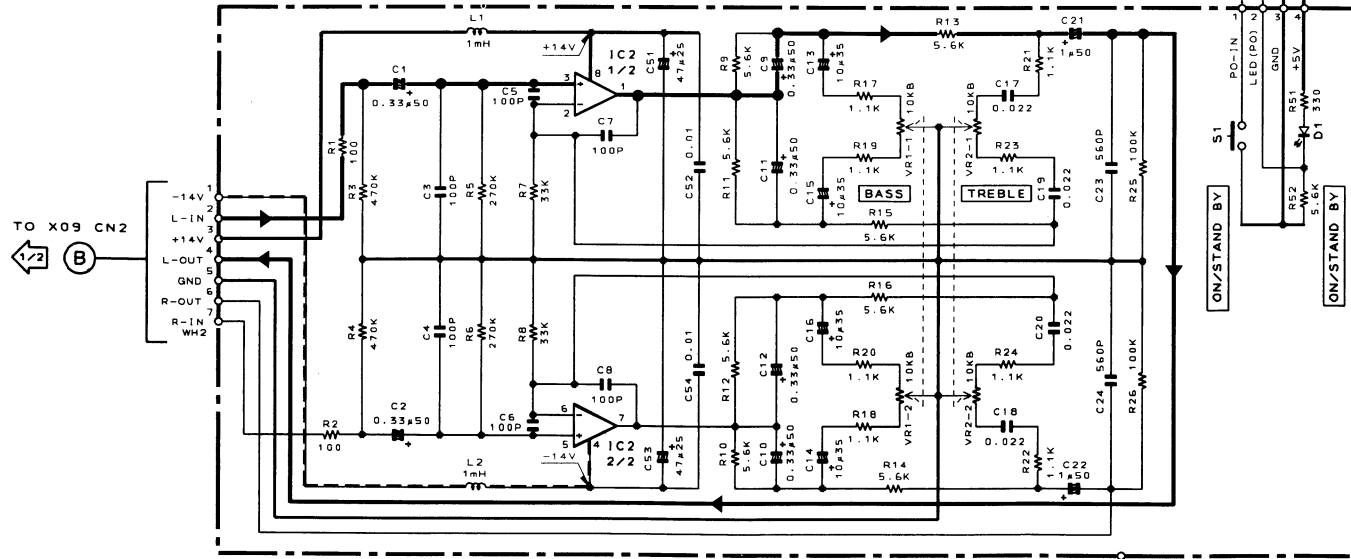
Y08-4582-70

X11-32XX-XX A/5

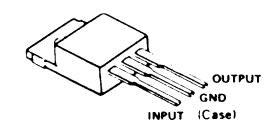


- X11-32XX-XX
 IC1 : PD75004CU-145
 IC2 : NJM4565D-D
 IC3 : PST529C
- Q1 : 2SC2458 (Y. GR)
 or 2SC3311A (Q. R)
- D1, 14-22 B30-1291-05
 D3-8 : 1SS133
 10-13 or HSS104
 D9 : RD5.1JS (B2)
 or HZS5.1S (B2)

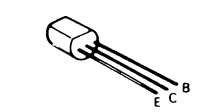
X11 B/5



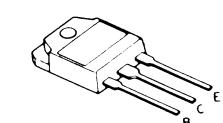
- HSS104
 HSS104A
 HZS5.1S
 RD5.1JS
 S5688B
 1SS131
 1SS133



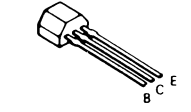
- 2SA992
 2SB764
 2SC1845
 2SC2003
 2SC2878
 2SD863



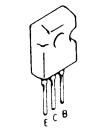
- 2SB1531BT*5
 2SD2340BT*5



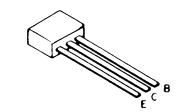
- DTA124ES
 DTC124ES
 UN4112
 2SA1048
 2SC2458



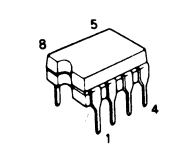
- 2SC4137



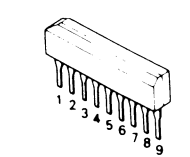
- UN4212
 2SA1309A
 2SC3311A



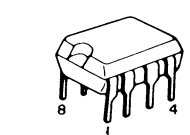
- NJM4565D
 NJM4565D-D



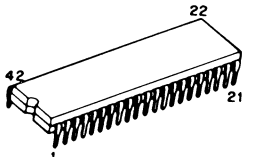
- TA8409S



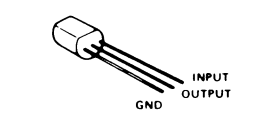
- NJM4580D-D



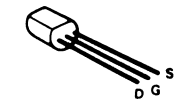
- UPD75004CU-145



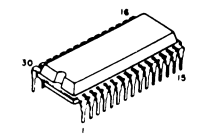
- PST529C



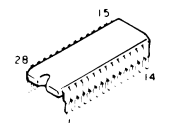
- 2SK170



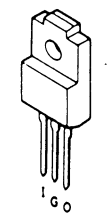
- LC7821N



- TC9163N



- TA7805S



DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. 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 gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

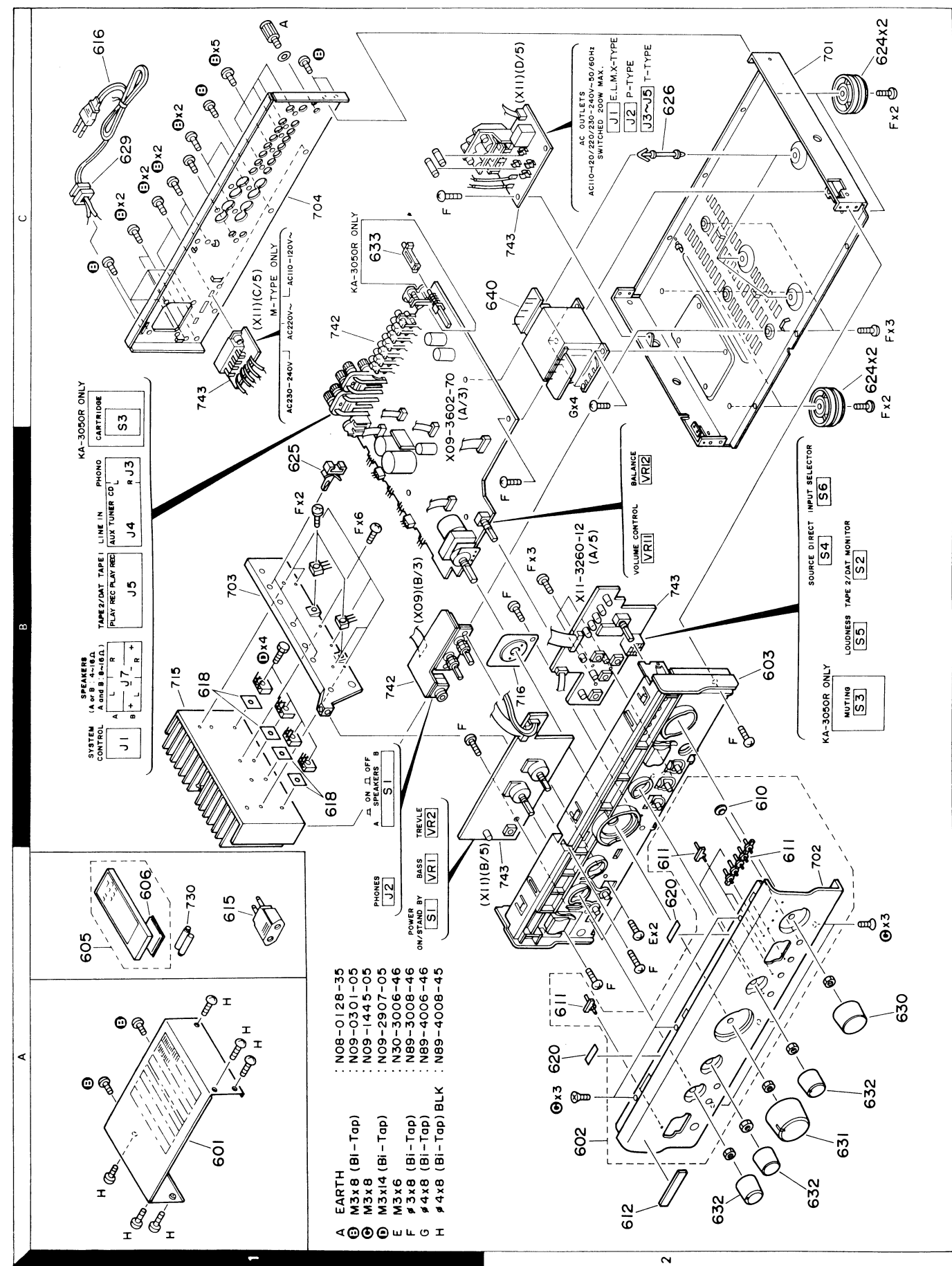
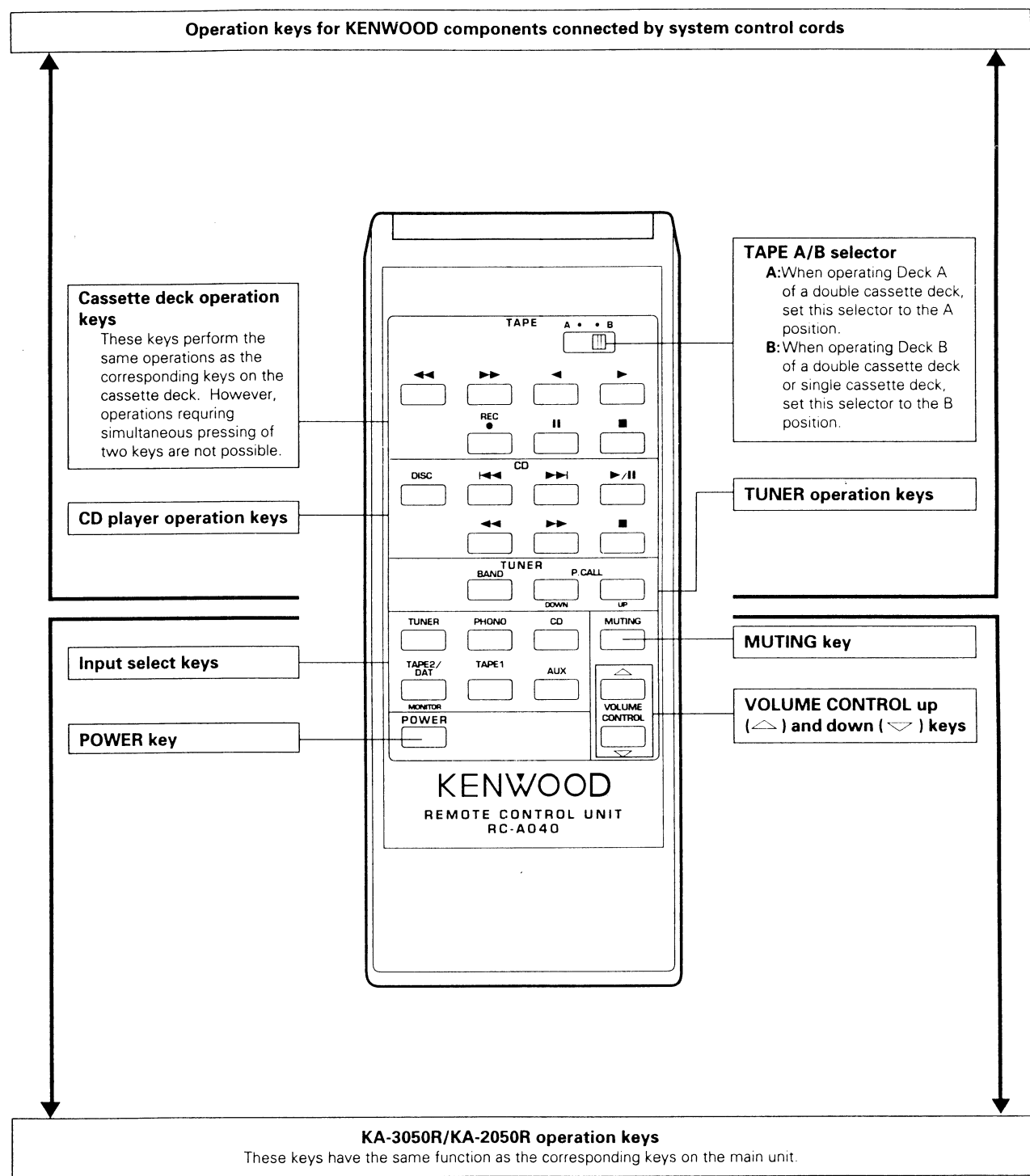
CAUTION: For continued safety, replace safety critical components only with manufacture's recommended parts (refer to parts list). *A*: Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KA-2050R/3050R
KENWOOD

Y08-4582-70

REMOTE CONTROL OPERATION

EXPLODED VIEW



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

voltmeter.
individual
e à haute
u fait des
e mesure

mit einem
schwanken
einzelnen

050R
D

× 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. 1

| Ref. No. | Address | New | Parts No. | Description | Desti- nation | Re- marks |
|-----------------|---------|-----|-------------|-------------------------------|------------------|--------------|
| 参照番号 | 位 置 | 新 | 部 品 番 号 | 部 品 名 / 規 格 | 仕 向 | 備 考 |
| KA-2050R | | | | | | |
| 601 | 1A | * | A01-2932-02 | METALLIC CABINET | | |
| 602 | 2A | * | A60-0219-02 | PANEL ASSY | | |
| 603 | 2B | * | A22-1558-01 | SUB PANEL | | |
| 605 | 1A | * | A70-0597-05 | REMOTE CONTROLLER ASSY | | |
| 606 | 1A | * | A09-0094-08 | BATTERY COVER | | |
| 610 | 2B | | B11-0237-14 | COLOR FILTER | | |
| 611 | 2A | * | B12-0196-04 | INDICATOR | | |
| 612 | 2A | | B43-0287-04 | KENWOOD BADGE | | |
| - | | | B46-0096-33 | WARRANTY CARD | X | |
| - | | | B46-0121-13 | WARRANTY CARD | P | |
| - | | | B46-0122-23 | WARRANTY CARD | EL | |
| - | | | B46-0143-13 | WARRANTY CARD | T | |
| - | | * | B60-0835-00 | INSTRUCTION MANUAL (ENGLISH) | ELP | |
| - | | * | B60-0836-00 | INSTRUCTION MANUAL (FRENCH) | EL | |
| - | | * | B60-0837-00 | INSTRUCTION MANUAL (GE,DU,IT) | EL | |
| - | | * | B60-0965-00 | INSTRUCTION MANUAL (CHINESE) | M | |
| - | | * | B60-0966-00 | INSTRUCTION MANUAL (SPANISH) | ELM | |
| △ 615 | 1A | | E03-0115-05 | AC PLUG ADAPTER | M | |
| △ 616 | 1C | | E30-0459-05 | AC POWER CORD | ELM | |
| △ 616 | 1C | | E30-0974-05 | AC POWER CORD | P | |
| △ 616 | 1C | | E30-1341-05 | AC POWER CORD | X | |
| △ 616 | 1C | | E30-1416-05 | AC POWER CORD | T | |
| △ J1 | 2C | | E03-0114-05 | AC OUTLET | X | |
| 620 | 2A | | G11-0153-04 | SOFT TAPE (80X12X3) | | |
| - | | * | H50-0321-04 | ITEM CARTON CASE | | |
| - | | * | H10-5296-02 | POLYSTYRENE FOAMED FIXTURE | | |
| - | | * | H10-5297-02 | POLYSTYRENE FOAMED FIXTURE | | |
| - | | | H25-0225-04 | PROTECTION BAG (850X450X0.03) | ELXMP | |
| - | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | ELXMP | |
| - | | | H25-0651-04 | PROTECTION BAG (0232 PRINTED) | T | |
| - | | | H25-0654-04 | PROTECTION BAG (0225 PRINTED) | T | |
| 624 | 2C | | J02-1034-05 | FOOT | | |
| 625 | 1B | | J61-0033-05 | WIRE BAND | | |
| 626 | 1C | | J19-3331-05 | UNIT HOLDER | | |
| △ 629 | 1C | | J42-0083-05 | POWER CORD BUSHING | | |
| - | | | J61-0307-05 | WIRE BAND | | |
| 630 | 2A | | K29-4215-04 | KNOB INPUT SELECTOR | | |
| 631 | 2A | * | K29-4382-04 | KNOB VOLUME CONTROL | | |
| 632 | 2A | * | K29-4384-04 | KNOB BASS, TREBLE, BALANCE | | |
| △ 640 | 2C | * | L07-0494-05 | POWER TRANSFORMER | EL | |
| △ 640 | 2C | * | L07-0495-05 | POWER TRANSFORMER | TX | |
| △ 640 | 2C | * | L07-0497-05 | POWER TRANSFORMER | M | |
| △ 640 | 2C | * | L07-0498-05 | POWER TRANSFORMER | P | |
| A | 1C | | N08-0128-35 | BINDING POST (EARTH) | | |
| B | 1A, 1C | | N09-0301-05 | TAPTITE SCREW (3X8) | | |
| C | 2A | | N09-1445-05 | SET SCREW (M3X8) | | |
| D | 1B | * | N09-2907-05 | SEMS (TAPTITE SCREW)(3X14) | | |
| E | 2A | | N30-3006-46 | PAN HEAD MACHINE SCREW | | |
| F | 1A, 1B | | N89-3008-46 | BINDING HEAD TAPTITE SCREW | | |
| G | 2C | | N89-4006-46 | BINDING HEAD TAPTITE SCREW | | |

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

3 : KA-3050R
 2 : KA-2050R

△ indicates safety critical components.

AUDIO UNIT

| | |
|-------------|---------------------|
| X09-3601-01 | KA-3050R P |
| X09-3601-02 | KA-2050R P |
| X09-3602-70 | KA-3050R M, X, T, E |
| X09-3602-71 | KA-3050R L |
| X09-3602-72 | KA-2050R M, X, T, E |
| X09-3602-73 | KA-2050R L |

CONTROL UNIT

| | |
|-------------|---------------|
| X11-3260-21 | KA-3050R M |
| X11-3260-51 | KA-3050R T |
| X11-3260-71 | KA-3050R X |
| X11-3261-01 | KA-3050R P |
| X11-3262-70 | KA-3050R E, L |
| X11-3270-21 | KA-2050R M |
| X11-3270-51 | KA-2050R T |
| X11-3270-71 | KA-2050R X |
| X11-3271-01 | KA-2050R P |
| X11-3272-70 | KA-2050R E, L |

PARTS LIST

KA-2050R/3050R

× New Parts
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No. 2

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕向 | Re- marks 備考 |
|------------------|---------------|----------------|-------------------|-------------------------------|------------------------|--------------------|
| H | 1A | | N89-4008-45 | BINDING HEAD TAPTITE SCREW | | |
| Q1 ,2 | | * | 2SB1531BT*5 | TRANSISTOR | | |
| Q3 ,4 | | * | 2SD2340BT*5 | TRANSISTOR | | |
| KA-3050R | | | | | | |
| 601 | 1A | * | A01-2932-02 | METALLIC CABINET | | |
| 602 | 2A | * | A60-0217-02 | PANEL ASSY | | |
| 603 | 2B | * | A22-1559-01 | SUB PANEL | | |
| 605 | 1A | * | A70-0597-05 | REMOTE CONTROLLER ASSY | | |
| 606 | 1A | * | A09-0094-08 | BATTERY COVER | | |
| 610 | 2B | | B11-0237-14 | COLOR FILTER | | |
| 611 | 2A | * | B12-0196-04 | INDICATOR | | |
| 612 | 2A | | B43-0287-04 | KENWOOD BADGE | | |
| - | | | B46-0096-33 | WARRANTY CARD | | |
| - | | | B46-0121-13 | WARRANTY CARD | X | |
| - | | | B46-0122-23 | WARRANTY CARD | EL | |
| - | | | B46-0143-13 | WARRANTY CARD | T | |
| - | | * | B60-0835-00 | INSTRUCTION MANUAL (ENGLISH) | | |
| - | | * | B60-0836-00 | INSTRUCTION MANUAL (FRENCH) | ELP | |
| - | | * | B60-0837-00 | INSTRUCTION MANUAL (GE,DU,IT) | EL | |
| - | | * | B60-0965-00 | INSTRUCTION MANUAL (CHINESE) | M | |
| - | | * | B60-0966-00 | INSTRUCTION MANUAL (SPANISH) | ELM | |
| △ 615 | 1A | | E03-0115-05 | AC PLUG ADAPTER | M | |
| △ 616 | 1C | | E30-0459-05 | AC POWER CORD | ELM | |
| △ 616 | 1C | | E30-0974-05 | AC POWER CORD | P | |
| △ 616 | 1C | | E30-1341-05 | AC POWER CORD | X | |
| △ 616 | 1C | | E30-1416-05 | AC POWER CORD | T | |
| J1 | 2C | | E03-0114-05 | AC OUTLET | X | |
| 618 | 1B | | F20-1322-05 | INSULATING BOARD | | |
| 620 | 2A | | G11-0153-04 | SOFT TAPE (80X12X3) | | |
| - | | * | H50-0320-04 | ITEM CARTON CASE | | |
| - | | * | H10-5296-02 | POLYSTYRENE FOAMED FIXTURE | | |
| - | | * | H10-5297-02 | POLYSTYRENE FOAMED FIXTURE | | |
| - | | | H25-0225-04 | PROTECTION BAG (850X450X0.03) | | |
| - | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | ELXMP | |
| - | | | H25-0651-04 | PROTECTION BAG (0232 PRINTED) | T | |
| - | | | H25-0654-04 | PROTECTION BAG (0225 PRINTED) | T | |
| 624 | 2C | | J02-1034-05 | FOOT | | |
| 625 | 1B | | J61-0033-05 | WIRE BAND | | |
| 626 | 1C | | J19-3331-05 | UNIT HOLDER | | |
| 629 | 1C | | J42-0083-05 | POWER CORD BUSHING | | |
| - | | | J61-0307-05 | WIRE BAND | | |
| 630 | 2A | | K29-4215-04 | KNØB INPIUT SELECTØR | | |
| 631 | 2A | * | K29-4382-04 | KNØB VOLUME CONTRØL | | |
| 632 | 2A | * | K29-4384-04 | KNØB BASS, TREBLE, BALANCE | | |
| 633 | 1C | * | K29-4385-04 | KNØB MM/MC | | |
| △ 640 | 2C | * | L07-0489-05 | POWER TRANSFORMER | EL | |
| △ 640 | 2C | * | L07-0490-05 | POWER TRANSFORMER | TX | |
| △ 640 | 2C | * | L07-0492-05 | POWER TRANSFORMER | M | |
| △ 640 | 2C | * | L07-0493-05 | POWER TRANSFORMER | P | |
| A | 1C | | N08-0128-35 | BINDING POST (EARTH) | | |

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No. 3

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕向 | Re- marks 備考 |
|---------------------------------|---------------|----------------|-------------------|----------------------------|------------------------|--------------------|
| B | 1A, 1C | | N09-0301-05 | TAPTITE SCREW (3X8) | | |
| C | 2A | | N09-1445-05 | SET SCREW (M3X8) | | |
| D | 1B | * | N09-2907-05 | SEMS (TAPTITE SCREW)(3X14) | | |
| E | 2A | | N30-3006-46 | PAN HEAD MACHINE SCREW | | |
| F | 1A, 1B | | N89-3008-46 | BINDING HEAD TAPTITE SCREW | | |
| G | 2C | | N89-4006-46 | BINDING HEAD TAPTITE SCREW | | |
| H | 1A | | N89-4008-45 | BINDING HEAD TAPTITE SCREW | | |
| Q1 ,2 | | * | 2SB1531BT*5 | TRANSISTOR | | |
| Q3 ,4 | | * | 2SD2340BT*5 | TRANSISTOR | | |
| AUDIO UNIT (X09-360X-XX) | | | | | | |
| C1 ,2 | | | CF92FV1H101K | MF 100PF | K | |
| C3 ,4 | | | CF92FV1H471J | MF 470PF | J | 3 |
| C5 ,6 | | | CE04KW1V100M | ELECTRØ 100UF | 35WV | 2 |
| C7 -10 | | | CF92FV1H102J | MF 1000PF | J | 2 |
| C7 -10 | | | CF92FV1H122J | MF 1200PF | J | 3 |
| C11 ,12 | | | CC45FSL1H390J | CERAMIC 39PF | J | 3 |
| C13 ,14 | | | CF92FV1H182J | MF 1800PF | J | 3 |
| C13 ,14 | | | CF92FV1H332J | MF 3300PF | J | 3 |
| C15 ,16 | | | CE04KW1E101M | ELECTRØ 100UF | 25WV | 2 |
| C15 ,16 | | | C90-1951-05 | ELECTRØ 3300UF | 6.3WV | 3 |
| C17 ,18 | | | CF92FV1H123J | MF 0.012UF | J | 2 |
| C17 ,18 | | | CF92FV1H393J | MF 0.039UF | J | 2 |
| C19 ,20 | | | CF92FV1H113J | MF 0.011UF | J | 2 |
| C19 ,20 | | | CF92FV1H332J | MF 3300PF | J | 2 |
| C21 ,22 | | | CE04KW1H220M | ELECTRØ 22UF | 50WV | 2 |
| C23 ,24 | | | CF92FV1H272J | MF 2700PF | J | 2 |
| C23 ,24 | | | CF92FV1H392J | MF 3900PF | J | 3 |
| C25 -38 | | | CF92FV1H151K | MF 150PF | K | |
| C39 ,40 | | | CE04KW1V4R7M | ELECTRØ 4.7UF | 35WV | |
| C41 ,42 | | * | C90-1971-05 | ELECTRØ 10UF | 50WV | |
| C43 ,44 | | | CF92FV1H101K | MF 100PF | K | |
| C45 ,46 | | | CF92FV1H331K | MF 330PF | K | |
| C47 ,48 | | | CF92FV1H683J | MF 0.068UF | J | |
| C49 ,50 | | * | C90-1971-05 | ELECTRØ 10UF | 50WV | |
| C51 ,52 | | | CF92FV1H121K | MF 120PF | K | |
| C53 ,54 | | | CF92FV1H221K | MF 220PF | K | |
| C59 ,60 | | | CC45FSL2H390J | CERAMIC 39PF | J | |
| C61 ,62 | | | CE04KW1H101M | ELECTRØ 100UF | 50WV | |
| C63 ,64 | | | CF92FV1H103J | MF 0.010UF | J | |
| C65 ,66 | | | CE04KW1V100M | ELECTRØ 10UF | 35WV | |
| C67 ,68 | | | CC45FSL1H050C | CERAMIC 5.0PF | C | |
| C69 ,70 | | * | C90-1972-05 | ELECTRØ 100UF | 6.3WV | |
| C71 -78 | | | CE04KW1H010M | ELECTRØ 1.0UF | 50WV | |
| C79 ,80 | | | CK45FB1H222K | CERAMIC 2200PF | K | |
| C81 -88 | | | CF92FV1H104J | MF 0.10UF | J | |
| C89 -92 | | | CF92FV1H472J | MF 4700PF | J | |
| C93 -98 | | | CK45FB1H102K | CERAMIC 1000PF | K | |
| C99 ,100 | | | CF92FV1H103J | MF 0.010UF | J | |
| C111-113 | | | CK45FF1H103Z | CERAMIC 0.010UF | Z | |
| C114 ,115 | | | CC45FSL1H221J | CERAMIC 220PF | J | |
| C116 ,117 | | * | C90-1963-15 | ELECTRØ 5600UF | 42WV | 2 |
| C116 ,117 | | * | C90-1968-15 | ELECTRØ 6800UF | 50WV | 3 |
| C118 | | | CE04KW1E102M | ELECTRØ 1000UF | 25WV | |
| C119 | | | CK45FF1H103Z | CERAMIC 0.010UF | Z | |

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No. 4

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 向 | Re- marks 備考 |
|------------------|---------------|----------------|-------------------|-------------------------------|-----------------------|--------------------|
| C120 | | | CF92FV1H104J | MF 0.10UF J | | |
| C121 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | |
| C122 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C123 | | | CE04KW1A470M | ELECTRO 47UF 10WV | | |
| C124 | | | CK45FF1H223Z | CERAMIC 0.022UF Z | | |
| C125-127 | | | CE04KW1V100M | ELECTRO 10UF 35WV | ELTXM | |
| C128 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C129 | | | C90-1917-05 | ELECTRO 100UF 16WV | | |
| C130 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C131,132 | | | CF92FV1H103J | MF 0.010UF J | | |
| C133 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | ELTXM | |
| C134 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C135 | | | CF92FV1H103J | MF 0.010UF J | | |
| C136,137 | | * | C90-1971-05 | ELECTRO 10UF 50WV | | |
| C138,139 | | | CE04KW1E101M | ELECTRO 100UF 25WV | | |
| C140,141 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | |
| C142,143 | | | CE04KW1H101M | ELECTRO 100UF 50WV | | |
| C144,145 | | | CF92FV1H103J | MF 0.010UF J | | |
| C146,147 | | | CC45FSL1H101J | CERAMIC 100PF J | | |
| C148,149 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C150,151 | | | CE04KW1V100M | ELECTRO 10UF 35WV | ELTXM | 3 |
| C152,153 | | | CE04KW1E221M | ELECTRO 220UF 25WV | | |
| C154 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C155,156 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | |
| C157,158 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C159 | | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C160 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| J1 | | | E11-0188-05 | MINIATURE PHONE JACK SYNCRØ | | |
| J2 | | | E11-0208-05 | PHONE JACK PHONES | | |
| J3 | | | E13-0235-05 | PHONE JACK PHONE | | |
| J4 | | | E13-0634-05 | PHONE JACK CD/TUNER/AUX | | |
| J5 | | | E13-0820-05 | PHONE JACK TAPE/DAT MONITOR | | |
| J7 | | * | E70-0018-05 | SCREW TERMINAL BOARD SPEAKRES | ETXMP | |
| J7 | | * | E70-0019-05 | SCREW TERMINAL BOARD SPEAKERS | L | |
| F4 ,5 | | | F04-5022-05 | FUSE (UL) (125V 5A UL) | P | 2 |
| F4 ,5 | | | F05-6029-05 | FUSE (UL) (125V 6A) | P | 3 |
| F6 | | | F04-1026-05 | FUSE (UL) (250V 1A) | P | |
| F6 | | | F06-1022-05 | FUSE (SEMCO) (250V T1A) | ELTXM | |
| - | | | J11-0098-05 | WIRE CLAMPER | P | |
| CN7 -12 | | | J13-0075-05 | FUSE CLIP | ELTXM | |
| CN11,12 | | | J13-0075-05 | FUSE CLIP | | |
| L1 ,2 | | | L40-1011-47 | SMALL FIXED INDUCTOR(100UH,K) | | 3 |
| L3 ,4 | | | L39-0085-05 | PHASE COMPENSATION COIL | | |
| L11 ,12 | | | L40-1011-17 | SMALL FIXED INDUCTOR(100UH,K) | | |
| L15 ,16 | | | L40-2211-17 | SMALL FIXED INDUCTOR(220UH,K) | | |
| CP1 ,2 | | | R90-0187-05 | MULTI-COMP 0.22X2 K 5W | | 2 |
| R23 ,24 | | | RN14BK2C2613FTS | RN 261K F 1/6W | | 3 |
| R23 ,24 | | | RN14BK2C8252FTS | RN 82.5K F 1/6W | | 3 |
| R25 ,26 | | | RN14BK2C6811FTS | RN 6.81K F 1/6W | | 3 |
| R111,112 | | | RD14AB2E472JTS | FL-PROOF RD 4.7K J 1/4W | | |
| R113-118 | | | RD14AB2E680JTS | FL-PROOF RD 68 J 1/4W | | |
| R119,120 | | | RD14AB2E100JTS | FL-PROOF RD 10 J 1/4W | | |
| R129-132 | | | RD14AB2E101JTS | FL-PROOF RD 100 J 1/4W | | |

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No. 5

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 向 | Re- marks 備考 |
|------------------|---------------|----------------|-------------------|-----------------------------|-----------------------|--------------------|
| R133,134 | | | RD14AB2E332JTS | FL-PROOF RD 3.3K J 1/4W | | |
| R135,136 | | | RD14AB2E102JTS | FL-PROOF RD 1.0K J 1/4W | | |
| R141-144 | | | RS14GB3A100JKW | FL-PROOF RS 10 J 1W | | |
| R145,146 | | * | RS14GB3A8R2JKW | FL-PROOF RS 8.2 J 1W | | |
| R147,148 | | | RS14DB3D151JTE | FL-PROOF RS 150 J 2W | | |
| R167 | | | RS14DB3A471JTE | FL-PROOF RS 470 J 1W | | 2 |
| R167 | | | RS14DB3A821JTE | FL-PROOF RS 820 J 1W | | 3 |
| R168 | | | RS14DB3A330JTE | FL-PROOF RS 33 J 1W | | |
| R173 | | | RD14AB2E680JTS | FL-PROOF RD 68 J 1/4W | | |
| R179 | | | RD14AB2E470JTS | FL-PROOF RD 47 J 1/4W | | |
| R181 | | | RD14AB2E332JTS | FL-PROOF RD 3.3K J 1/4W | | 2 |
| R181 | | | RD14AB2E392JTS | FL-PROOF RD 3.9K J 1/4W | | 3 |
| R191,192 | | * | RS14GB3D331JKW | FL-PROOF RS 330 J 2W | | |
| R193,194 | | | RD14AB2E392JTS | FL-PROOF RD 3.9K J 1/4W | | 2 |
| R193,194 | | | RD14AB2E472JTS | FL-PROOF RD 4.7K J 1/4W | | 3 |
| R197 | | | RD14AB2E472JTS | FL-PROOF RD 4.7K J 1/4W | | |
| R211,212 | | | RS14DB3A821JTE | FL-PROOF RS 820 J 1W | | 3 |
| VR1 ,2 | | | R12-1616-05 | TRIMMING POT.(1K) IDLEING | | |
| VR11 | | * | R29-5068-05 | POTENTIOMETER(100K) VOLUME | | |
| VR12 | | | R05-5037-05 | POTENTIOMETER(200K) BALANCE | | |
| K1 | | | S76-0005-05 | MAGNETIC RELAY | | |
| K2 | | | S76-0015-05 | MAGNETIC RELAY | | |
| S1 | | * | S68-0010-05 | PUSH SWITCH SPEAKERS A/B | | 3 |
| S2 | | | S40-6035-05 | PUSH SWITCH MM/MC | | |
| D1 -30 | | | HSS104 | DIODE | | |
| D1 -30 | | | 1SS133 | DIODE | | |
| D31 ,32 | | | HSS104A | DIODE | | |
| D31 ,32 | | | 1SS131 | DIODE | | |
| D51 | | | D5SBA20F03 | DIODE | | |
| D51 | | | RBV-602LFA | DIODE | | |
| D52 -55 | | | SS688B | DIODE | | |
| D56 ,57 | | | HSS104 | DIODE | | |
| D56 ,57 | | | 1SS133 | DIODE | | |
| D58 ,59 | | | HSS104A | DIODE | | |
| D58 ,59 | | | 1SS131 | DIODE | | |
| D60 | | | HZ55.1S(B2) | ZENER DIODE | | |
| D60 | | | RD5.1JS(B2) | ZENER DIODE | | |
| D61 ,62 | | | HZ57.5S(B) | ZENER DIODE | | |
| D61 ,62 | | | RD7.5JS(B) | ZENER DIODE | | |
| D63 -69 | | | HSS104 | DIODE | | |
| D63 -69 | | | 1SS133 | DIODE | | |
| D70 -74 | | | HZ57.5S(B) | ZENER DIODE | | |
| D70 -74 | | | RD7.5JS(B) | ZENER DIODE | | |
| D75 | | | HZ520S(B) | ZENER DIODE | | |
| D75 | | | RD20JS(B) | ZENER DIODE | | |
| D76 | | | HZ55.1S(B2) | ZENER DIODE | | |
| D76 | | | RD5.1JS(B2) | ZENER DIODE | | |
| D77 -84 | | | HSS104 | DIODE | | |
| D77 -84 | | | 1SS133 | DIODE | | |
| D85 | | | HZ57.5S(B) | ZENER DIODE | | |
| D85 | | | RD7.5JS(B) | ZENER DIODE | | |
| IC1 | | | NJM4565D | IC(OP AMP X2) | | 3 |
| IC1 | | | NJM4580D-D | IC(OP AMP X2) | | 2 |
| IC2 | | | LC7821N | IC(FUNCTION CONTROL SWITCH) | | |

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PARTS LIST

KA-2050R/3050R

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No. 6

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕向 | Re- marks 備考 |
|-----------------------------------------------------|---------------|----------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|
| IC3 IC4 IC5 IC6 IC6 | | | NJM4580D-D TC9163N TA8409S TA7805S UPC7805AHF | IC(OP AMP X2) IC(BILATERAL SWITCH X16) IC(MOTOR CONTROL) IC(VOLTAGE REGULATOR/ +5V) IC(VOLTAGE REGULATOR/ +5V) | | |
| IC7 Q1 -4 Q1 -4 Q5 -10 Q11 -14 | | | NJM4565D-D 2SK170(BL) 2SK170(V) 2SC2878(B) 2SC1845(F, E) | IC(OP AMP X2) FET FET TRANSISTOR TRANSISTOR | | 3 3 |
| Q15 -18 Q19 ,20 Q21 ,22 Q23 ,24 Q23 ,24 | | | 2SA992(F, E) 2SC1845(F, E) 2SC4137(V, W) 2SC2458(Y, GR) 2SC3311A(Q, R) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Q51 Q51 Q52 ,53 Q52 ,53 Q54 ,55 | | | 2SA1048(Y, GR) 2SA1309A(Q, R) 2SC2458(Y, GR) 2SC3311A(Q, R) 2SC2003(L, K) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Q56 Q56 Q57 ,58 Q57 ,58 Q59 | | | DTA124ES UN4112 DTC124ES UN4212 DTA124ES | DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR | | |
| Q59 Q60 Q61 Q62 ,63 | | | UN4112 2SD863(B, F) 2SB764(B, F) 2SD863(B, F) | DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| CONTROL UNIT (X11-32XX-XX) | | | | | | |
| D1 D14 -22 | | | B30-1291-05 B30-1291-05 | LED(LN21CPSLX(V)-(TA4)) LED(LN21CPSLX(V)-(TA4)) | | |
| C1 ,2 C3 -8 C9 -12 C13 -16 C17 -20 | | * | CE04KW1HR33M CF92FV1H101K C90-1969-05 C90-1970-05 CF92FV1H223J | ELECTRO 0.33UF 50WV MF 100PF K ELECTRO 0.33UF 50WV ELECTRO 10UF 35WV MF 0.022UF J | | |
| C21 ,22 C23 ,24 C51 C52 C53 | | | CE04KW1H010M CF92FV1H561J CE04KW1E470M CF92FV1H103J CE04KW1E470M | ELECTRO 1.0UF 50WV MF 560PF J ELECTRO 47UF 25WV MF 0.010UF J ELECTRO 47UF 25WV | | |
| C54 C55 ,56 C57 C58 C59 | | | CF92FV1H103J CE04KW1HR33M C90-3244-05 CK45FF1H103Z C90-3256-05 | MF 0.010UF J ELECTRO 0.33UF 50WV ELECTRO 10UF 35WV CERAMIC 0.010UF Z ELECTRO 4.7UF 50WV | | |
| C60 C61 C62 C63 C64 | | | C90-3253-05 C90-3244-05 CE04KW1H010M CK45FF1H103Z CE04KW1A101M | ELECTRO 1UF 50WV ELECTRO 10UF 35WV ELECTRO 1.0UF 50WV CERAMIC 0.010UF Z ELECTRO 100UF 10WV | | |
| C65 C66 ,67 | | | C90-1827-05 C91-1439-05 | BACKUP 0.047F 5.5WV FILM 0.01UF 250VAC | | |

L:Scandinavia K:USA P:Canada 3 : KA-3050R
 Y:PX(Far East, Hawaii) T:England E:Europe 2 : KA-2050R
 Y:AAFES(Europe) X:Australia 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. 7

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕向 | Re- marks 備考 |
|----------------------------------------------------|---------------|----------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------|
| △ J1 △ J2 △ J3 -5 | | * | E03-0131-05 E03-0111-05 E03-0109-05 | AC OUTLET AC OUTLET AC OUTLET | ELM P T | |
| △ F1 △ F1 △ F1 △ F1 ,2 △ F1 ,2 △ F3 | | | F04-2025-05 F05-1623-05 F05-4028-05 F06-1022-05 F05-1623-05 F06-1022-05 F05-2525-05 | FUSE (UL) (250V 2A) FUSE (SEMKO) (250V T1.6A) FUSE (UL) (125V 4A) FUSE (SEMKO) (250V T1A) FUSE (SEMKO) (250V T1.6A) FUSE (SEMKO) (250V T1A) FUSE (SEMKO) (250V T2.5A) | P 2 ELTX 3 P 3 ELTX 2 M 3 M 2 EL | |
| △ CN1 -4 △ CN1 ,2 CN5 ,6 | | | J13-0075-05 J13-0075-05 J13-0075-05 | FUSE CLIP FUSE CLIP FUSE CLIP | M ELTXP EL | |
| L1 ,2 X1 | | | L40-1021-14 L78-0209-05 | SMALL FIXED INDUCTOR(1.0MH,K) RESONATOR 4.194MHZ | | |
| R89 VR1 ,2 | | | RD14AB2E680JTS R06-3061-05 | FL-PROOF RD 68 J 1/4W POTENTIOMETER BASS, TRESLE | | |
| K1 S1 -5 S1 ,2 S4 ,5 △ S7 | | | S76-0009-05 S40-1064-05 S40-1064-05 S40-1064-05 S31-2322-05 | MAGNETIC RELAY PUSH SWITCH KEY BOARD PUSH SWITCH POWER, TAPE2/DAT PUSH SWITCH SOURCE DIR, LOUDNES SLIDE SWITCH VOLTAGE SELECTOR | M | 3 2 2 |
| S6 | | * | T99-0526-05 | ROTARY ENCODER INPUT SELECTOR | | |
| D3 -8 D3 -8 D9 D9 D10 -13 | | | HSS104 1SS133 HZS5.1S(B2) RDS.1JS(B2) HSS104 | DIODE DIODE ZENER DIODE ZENER DIODE DIODE | | |
| D10 -13 D23 D23 IC1 IC2 | | | 1SS133 HSS104 1SS133 * UPD75004CU-145 NJM4565D-D | DIODE DIODE DIODE IC(MICROPROCESSOR) IC(OP AMP X2) | | |
| IC3 Q1 Q1 Q2 | | | PST529C 2SC2458(Y, GR) 2SC3311A(Q, R) 2SC2003(L, K) | IC(SYSTEM RESET) TRANSISTOR TRANSISTOR TRANSISTOR | | |
| A1 | | | W02-1046-05 | ELECTRIC CIRCUIT MODULE | | |

L:Scandinavia K:USA P:Canada 3 : KA-3050R
 Y:PX(Far East, Hawaii) T:England E:Europe 2 : KA-2050R
 Y:AAFES(Europe) X:Australia M:Other Areas
 △ indicates safety critical components.

SPECIFICATIONS (For U.K. and Europe)

KA-3050R

| | |
|-----------------------------------------------|----------------------------------|
| Continuous rated power output | |
| (DIN) 1 kHz, at 8 Ω | 55 W + 55 W |
| at 4 Ω | 70 W + 70 W |
| (IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D. | |
| at 8 Ω | 55 W + 55 W |
| at 4 Ω | 70 W + 70 W |
| Dynamic power | 65 W (8 Ω) |
| | 70 W (6 Ω) |
| | 85 W (4 Ω) |
| | 100 W (2 Ω) |
| Damping factor | 40 (50 Hz) |
| Total harmonic distortion | 0.05% |
| | (20 Hz ~ 20,000 Hz, 45 W, 8 Ω) |
| | 0.02% (1 kHz, 45 W, 8 Ω) |
| Intermodulation distortion | 0.05% (45 W, 8 Ω) |
| | (70 Hz : 7 kHz = 4:1) |
| Frequency response | |
| CD | 5 Hz ~ 90 kHz, +0 dB, -3 dB |
| PHONO 'RIAA' response | 20 Hz ~ 20 kHz, +0.3 dB, -0.3 dB |
| Maximum input level | |
| PHONO (MM) | 130 mV, 0.5% T.H.D. at 1 kHz |
| PHONO (MC) | 10 mV, 0.5% T.H.D. at 1 kHz |
| Signal to noise ratio | |
| PHONO (MM) | 87 dB (IHF '66) |
| | 82 dB (IHF '78) |
| PHONO (MC) | 67 dB (IHF '66) |
| | 75 dB (IHF '78) |
| CD/TUNER/AUX/TAPE | 101 dB (IHF '66) |
| | 85 dB (IHF '78) |
| PHONO (MM) | 60 dB (DIN, 50 mW output) |
| CD/TUNER/AUX/TAPE | 60 dB (DIN, 50 mW output) |
| Input sensitivity/impedance | |
| PHONO (MM) | 2.5 mV/47 kΩ |
| PHONO (MC) | 0.2 mV/100 Ω |
| CD/TUNER/AUX/TAPE | 200 mV/47 kΩ |
| Tone control | |
| BASS | ±10 dB (at 100 Hz) |
| TREBLE | ±10 dB (at 10 kHz) |
| Loudness control | |
| VOLUME at -30 dB level | +6 dB (100 Hz), +3 dB (10 kHz) |
| Output level/impedance | |
| TAPE REC | 200 mV/1 kΩ |
| General | |
| Power consumption | 160 W |
| AC outlets | |
| SWITCHED | 3; (Total 200 W max.) |
| Dimensions | |
| | W: 440 mm (17-5/16") |
| | H: 136 mm (5-3/8") |
| | D: 350 mm (13-3/4") |
| Weight (net) | 6.9 kg (15.2 lb) |

KA-2050R

| | |
|-----------------------------------------------|----------------------------------|
| Continuous rated power output | |
| (DIN) 1 kHz, at 8 Ω | 35 W + 35 W |
| at 4 Ω | 45 W + 45 W |
| (IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D. | |
| at 8 Ω | 35 W + 35 W |
| at 4 Ω | 40 W + 40 W |
| Dynamic power | 45 W (8 Ω) |
| | 50 W (6 Ω) |
| | 60 W (4 Ω) |
| | 70 W (2 Ω) |
| Damping factor | 40 (50 Hz) |
| Total harmonic distortion | 0.05% |
| | (20 Hz ~ 20,000 Hz, 30 W, 8 Ω) |
| | 0.02% (1 kHz, 30 W, 8 Ω) |
| Intermodulation distortion | 0.05% (30 W, 8 Ω) |
| | (70 Hz : 7 kHz = 4:1) |
| Frequency response | |
| CD | 5 Hz ~ 90 kHz, +0 dB, -3 dB |
| PHONO 'RIAA' response | 20 Hz ~ 20 kHz, +0.3 dB, -0.3 dB |
| Maximum input level | |
| PHONO (MM) | 130 mV, 0.5% T.H.D. at 1 kHz |
| Signal to noise ratio | |
| PHONO (MM) | 77 dB (IHF '66) |
| | 80 dB (IHF '78) |
| CD/TUNER/AUX/TAPE | 101 dB (IHF '66) |
| | 85 dB (IHF '78) |
| PHONO (MM) | 58 dB (DIN, 50 mW output) |
| CD/TUNER/AUX/TAPE | 60 dB (DIN, 50 mW output) |
| Input sensitivity/impedance | |
| PHONO (MM) | 2.5 mV/47 kΩ |
| CD/TUNER/AUX/TAPE | 200 mV/47 kΩ |
| Tone control | |
| BASS | ±10 dB (at 100 Hz) |
| TREBLE | ±10 dB (at 10 kHz) |
| Loudness control | |
| VOLUME at -30 dB level | +6 dB (100 Hz), +3 dB (10 kHz) |
| Output level/impedance | |
| TAPE REC | 200 mV/1 kΩ |
| General | |
| Power consumption | 120 W |
| AC outlets | |
| SWITCHED | 3; (Total 200 W max.) |
| Dimensions | |
| | W: 440 mm (17-5/16") |
| | H: 136 mm (5-3/8") |
| | D: 350 mm (13-3/4") |
| Weight (net) | 6.0 kg (13.2 lb) |

KA-2050R/3050R

SPECIFICATIONS (For other countries)

KA-3050R

Continuous rated power output

(IHF '66) From 20 Hz to 20,000 Hz 0.05% T.H.D.

at 8 Ω 45 W + 45 W

(IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D.

at 8 Ω 55 W + 55 W

at 4 Ω 70 W + 70 W

Dynamic power 65 W (8 Ω)
70 W (6 Ω)
85 W (4 Ω)
100 W (2 Ω)

Damping factor 40 (50 Hz)

Total harmonic distortion 0.05%
(20 Hz ~ 20,000 Hz, 45 W, 8 Ω)
0.02% (1 kHz, 45 W, 8 Ω)

Intermodulation distortion 0.05% (45 W, 8 Ω)
(70 Hz : 7 kHz = 4:1)

Frequency response

CD 5 Hz ~ 90 kHz, +0 dB, -3 dB

PHONO 'RIAA' response 20 Hz ~ 20 kHz,
+0.3 dB, -0.3 dB

Maximum input level

PHONO (MM) 130 mV, 0.5% T.H.D. at 1 kHz

PHONO (MC) 10 mV, 0.5% T.H.D. at 1 kHz

Signal to noise ratio

PHONO (MM) 87 dB (IHF '66)

82 dB (IHF '78)

PHONO (MC) 67 dB (IHF '66)

75 dB (IHF '78)

CD/TUNER/AUX/TAPE 101 dB (IHF '66)

85 dB (IHF '78)

Input sensitivity/impedance

PHONO (MM) 2.5 mV/47 k Ω

PHONO (MC) 0.2 mV/100 Ω

CD/TUNER/AUX/TAPE 200 mV/47 k Ω

Tone control

BASS ± 10 dB (at 100 Hz)

TREBLE ± 10 dB (at 10 kHz)

Loudness control

VOLUME at -30 dB level +6 dB (100 Hz),

+3 dB (10 kHz)

Output level/impedance

TAPE REC 200 mV/1 k Ω

General

Power consumption 160 W

AC outlets

SWITCHED 3; (Total 200 W max.)

For Australia 2; (Total 200 W max.)

Dimensions W: 440 mm (17-5/16")

H: 136 mm (5-3/8")

D: 350 mm (13-3/4")

Weight (net) 6.9 kg (15.2 lb)

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 general market (M) 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.

KA-2050R

Continuous rated power output

(IHF '66) From 20 Hz to 20,000 Hz 0.05% T.H.D.

at 8 Ω 30 W + 30 W

(IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D.

at 8 Ω 35 W + 35 W

at 4 Ω 40 W + 40 W

Dynamic power 45 W (8 Ω)
50 W (6 Ω)
60 W (4 Ω)
70 W (2 Ω)

Damping factor 40 (50 Hz)

Total harmonic distortion 0.05%
(20 Hz ~ 20,000 Hz, 30 W, 8 Ω)
0.02% (1 kHz, 30 W, 8 Ω)

Intermodulation distortion 0.05% (30 W, 8 Ω)
(70 Hz : 7 kHz = 4:1)

Frequency response

CD 5 Hz ~ 90 kHz, +0 dB, -3 dB

PHONO 'RIAA' response 20 Hz ~ 20 kHz,
+0.3 dB, -0.3 dB

Maximum input level

PHONO (MM) 130 mV, 0.5% T.H.D. at 1 kHz

Signal to noise ratio

PHONO (MM) 77 dB (IHF '66)

80 dB (IHF '78)

CD/TUNER/AUX/TAPE 101 dB (IHF '66)

85 dB (IHF '78)

Input sensitivity/impedance

PHONO (MM) 2.5 mV/47 k Ω

CD/TUNER/AUX/TAPE 200 mV/47 k Ω

Tone control

BASS ± 10 dB (at 100 Hz)

TREBLE ± 10 dB (at 10 kHz)

Loudness control

VOLUME at -30 dB level +6 dB (100 Hz),

+3 dB (10 kHz)

Output level/impedance

TAPE REC 200 mV/1 k Ω

General

Power consumption 120 W

AC outlets

SWITCHED 3; (Total 200 W max.)

For Australia 2; (Total 200 W max.)

Dimensions W: 440 mm (17-5/16")

H: 136 mm (5-3/8")

D: 350 mm (13-3/4")

Weight (net) 6.0 kg (13.2 lb)

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