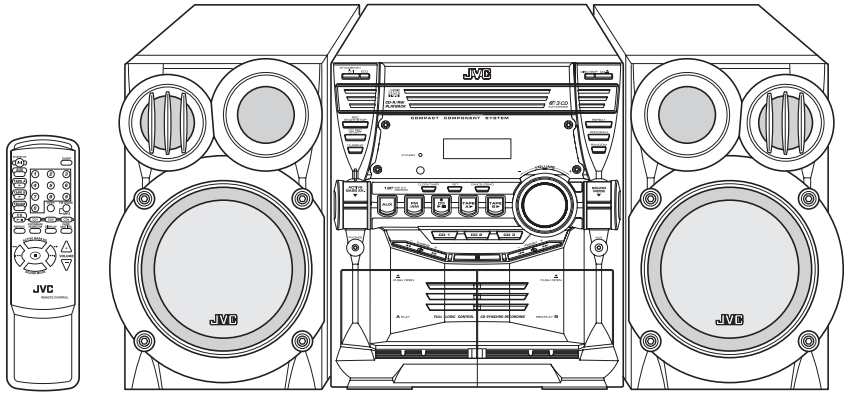
JVC

SERVICE MANUAL

COMPACT COMPONENT SYSTEM

MX-KB22, MX-KB1



SP-MXKB22
SP-MXKB1

CA-MXKB22
CA-MXKB1

SP-MXKB22
SP-MXKB1

COMPACT disc

MX-KB22
Area suffix
EV ---------- Eastern Europe

MX-KB1
Area suffix
B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe
EV ---------- Eastern Europe

TABLE OF CONTENTS

1 PRECAUTION 1-3
2 SPECIFIC SERVICE INSTRUCTIONS 1-7
3 DISASSEMBLY 1-8
4 ADJUSTMENT 1-28
5 TROUBLESHOOTING 1-33

No.MB306
2004/8

SPECIFICATION

Amplifier	Output Power		30 W per channel, min. RMS, driven into 6 Ω at 1kHz, with no more than 10% total harmonic distortion (IEC268-3) 28 W per channel, min. RMS, driven into 6 Ω at 1kHz, with no more than 0.9 % total harmonic distortion (DIN)
	Input Sensitivity/Impedance (1 kHz)		AUX IN:500 mV/51 kΩ
	Speaker terminals		6 - 16 Ω
	Phones		32 Ω - 1 kΩ
Cassette Deck Section	Frequency Response		20 mW/ch output into 32 Ω
	Type I (NORMAL)		63 Hz - 12 500 Hz
	Wow And Flutter		0.15 % (WRMS)
CD Player	CD Capacity		3 CDs
	Dynamic Range		85 dB
	Signal-To-Noise Ratio		85 dB
	Wow And Flutter		Unmeasurable
Tuner	Tuning Range	FM Tuner	87.50 MHz - 108.00 MHz
		AM Tuner	(MW) 522 kHz - 1 629 kHz
Unit	Dimensions		276 mm × 315 mm × 456 mm (W/H/D)
	Mass		Approx. 8 kg
Power Specifications	Power Requirements		AC 230 V , 50 Hz
	Power Consumption		83 W (power on mode) 13 W (in Standby mode) Approx. 2 W (in ECO mode)

Design and specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 Safety Precautions

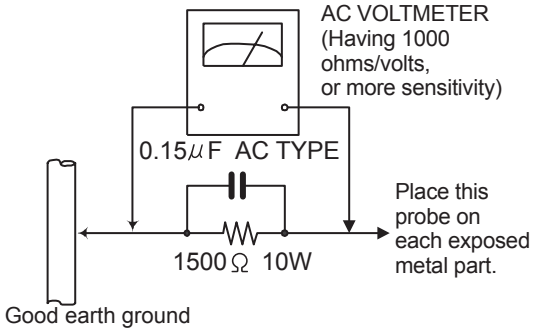
(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the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

(2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.

(4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

(5) Leakage shock hazard testing
After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.Do not use a line isolation transformer during this check.
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000Ω per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
Measure the AC voltage across the resistor with the AC voltmeter.
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

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

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.
Therefore, pay attention to such burrs in the case of preforming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▮) and ICP (●) or identified by the " ⚠ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.
(This regulation dose not Except the J and C version)

1.5 Safety Precautions (U.K only)

(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits.
(2) Any unauthorised design alterations or additions will void the manufacturer's guarantee; furthermore the manufacturer cannot accept responsibility for personal injury or property damage resulting therefrom.
(3) Essential safety critical components are identified by (⚠) on the Parts List and by shading on the schematics, and must never be replaced by parts other than those listed in the manual. Please note however that many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection. Parts other than specified by the manufacturer may not have the same safety characteristics as the recommended replacement parts shown in the Parts List of the Service Manual and may create shock, fire, or other hazards.
(4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

1.5.1 Warning

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

⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

1.6 Preventing static electricity

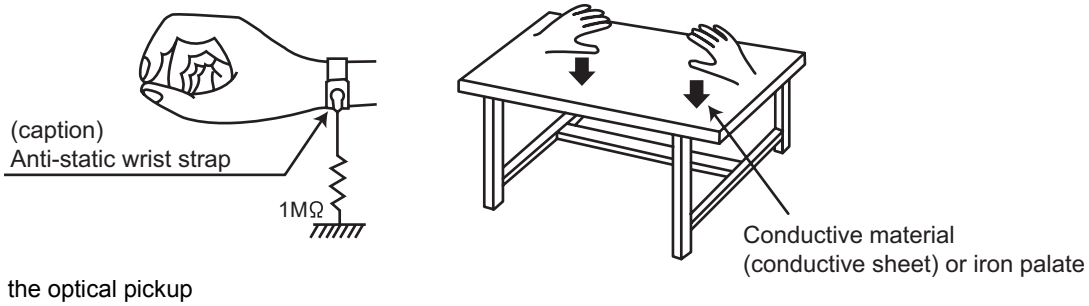
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.6.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products.
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench
Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself
Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup
- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

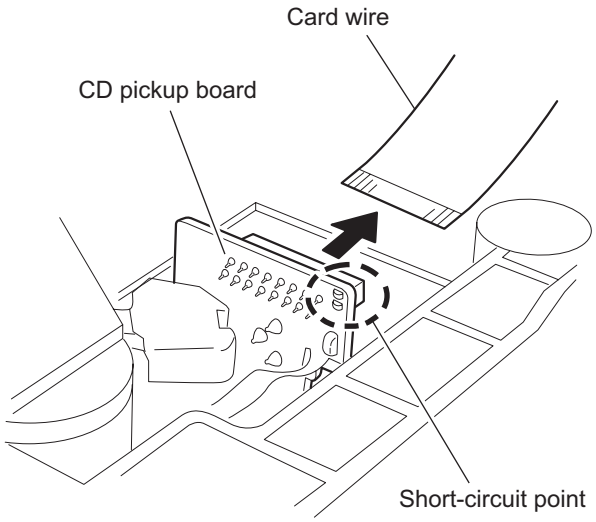
1.7 Handling the traverse unit (optical pickup)

(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
(3) Handle the flexible cable carefully as it may break when subjected to strong force.
(4) I t is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

1.8 Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for the pickup unit.**

- Apply solder to the short land sections before the flexible wire is disconnected from the connecto on the servo board. (If the flexible wire is disconnected without applying solder, the pickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land sections after connecting the flexible wire.



1.9 Important for laser products

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The CD,MD and DVD player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure.

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated.
AVOID DIRECT EXPOSUREBTO BEAM.

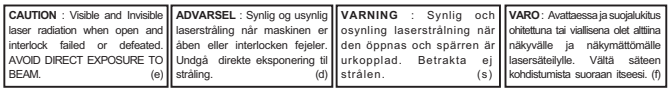
ADVARSEL : Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling.

VARNING : Synlig och osynlig laserstråling när den öppnas och spärren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL



SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3
DISASSEMBLY

3.1 Main body

3.1.1 Removing the top cover / side cover (R) and (L) (See Fig.1 to 6)

(1) From the back of the body, remove the two screws **A** attaching the top cover.
(2) From both sides of the body, remove the four screws **B** attaching the top cover and the side cover (R) and (L). Move the top cover in the direction of the arrow to release from the front panel at the two joints **a**.
(3) Remove the six screws **D** on the back of the body and the two screws **E** on the side of the body. Move the side cover (R) and (L) backward to release the four joints **b** on the bottom of the side covers.

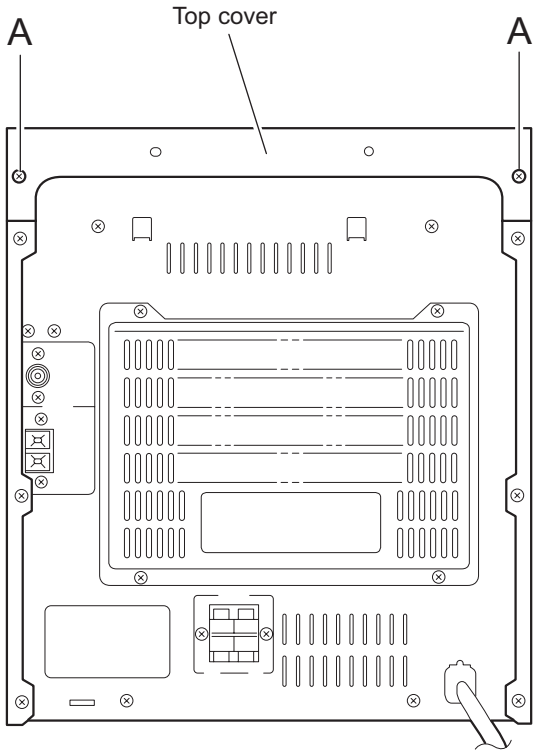


Fig.1

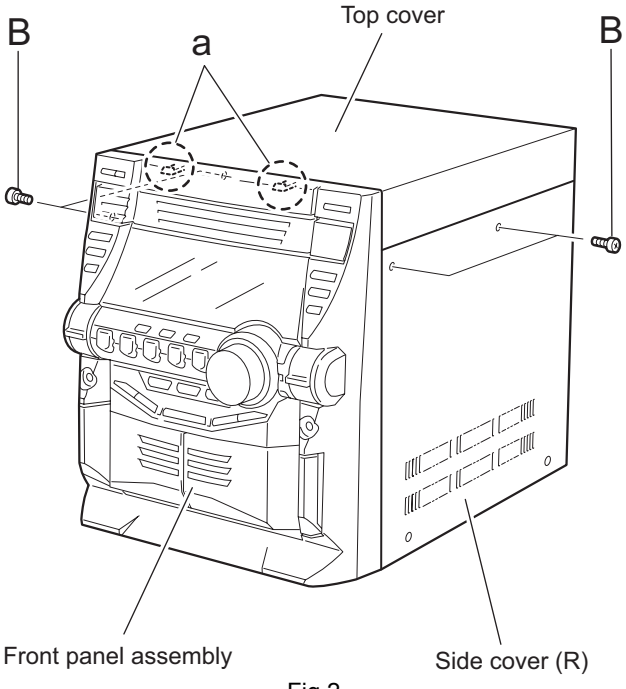


Fig.2

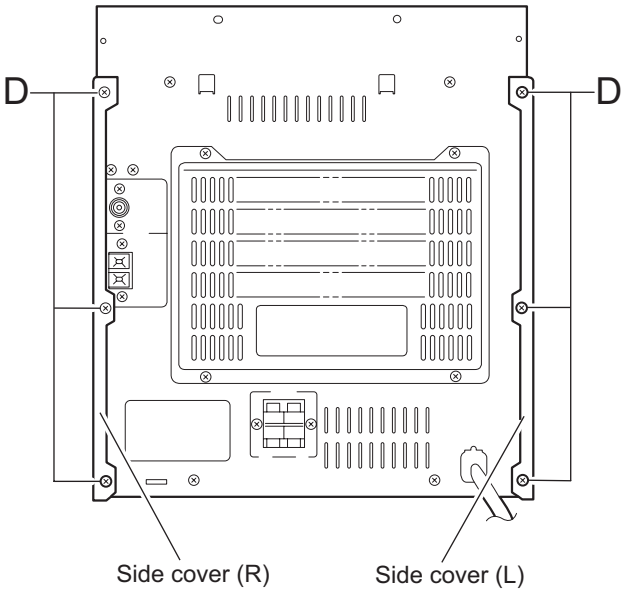


Fig.3

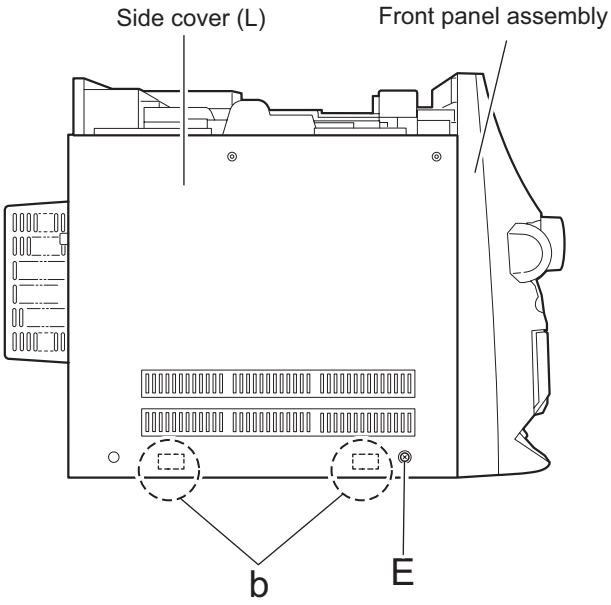


Fig.5

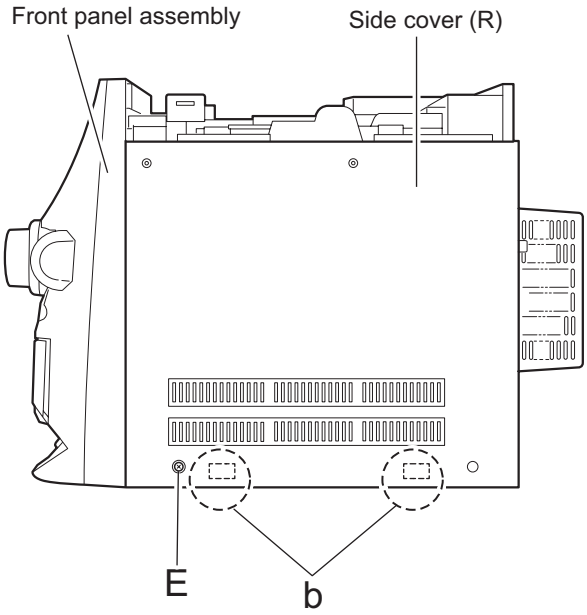


Fig.4

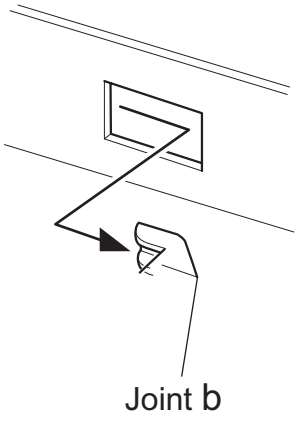


Fig.6

3.1.2 Removing the CD fitting (See Fig.7 to 9)

- Prior to performing the following procedure, remove the top cover / side cover (R) and (L).

Caution:

For preventing from damage, make sure to remove the CD fitting before detaching the CD changer mechanism unit.

(1) Push STANDBY / ON key to turn power on.
(2) Push CD TRAY EJECT key.
(3) Move the CD fitting in the direction of the arrow to release from the CD tray at two joints **d**.
(4) Push STANDBY / ON key to close the tray.

3.1.3 Removing the CD fitting (See Fig.8 to 10)

< How to eject the CD tray without turning power on >

- Prior to performing the following procedure, remove the top cover / side cover(R) and (L).

(1) Turn over the CD changer mechanism unit and turn the loading pulley gear at e in the inner part of the notch of the main board to move the CD tray forward.
(2) Move the CD fitting in the direction of the arrow to release from the CD tray at two joint **d**.
(3) Manually push and close the CD tray.

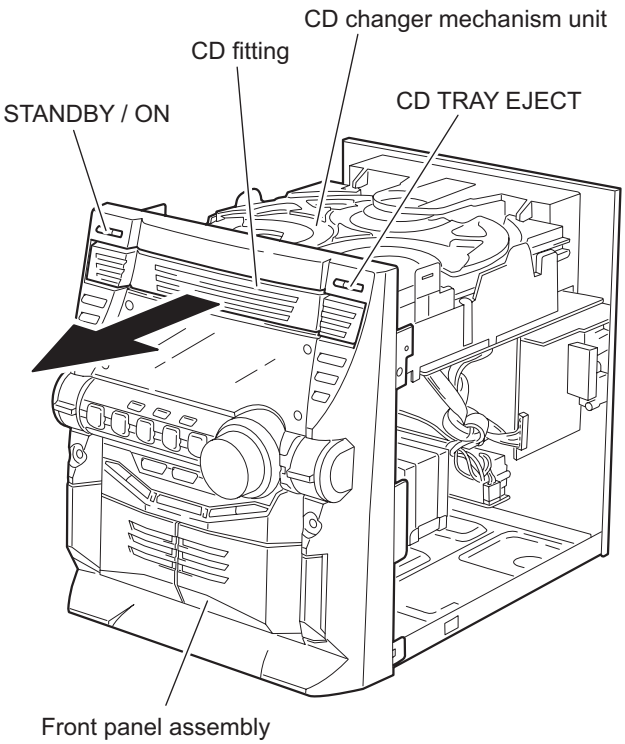


Fig.7

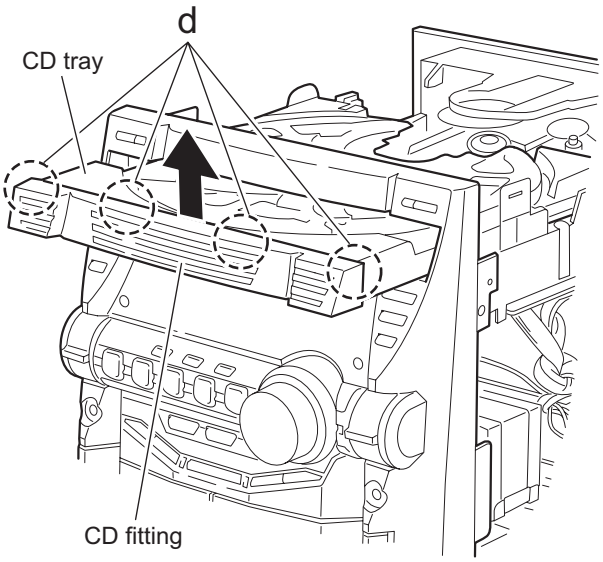


Fig.8

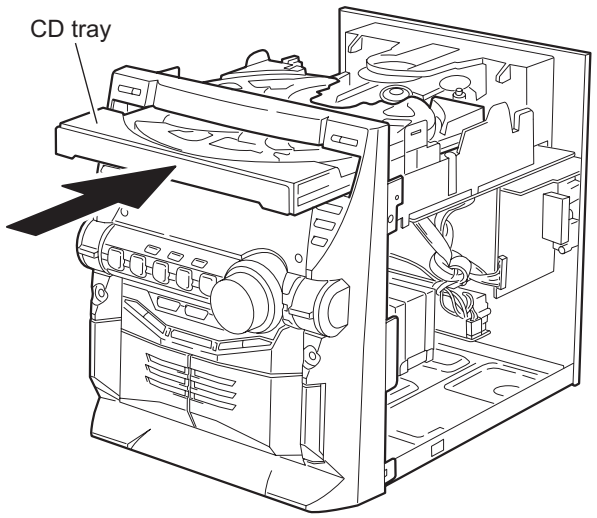


Fig.9

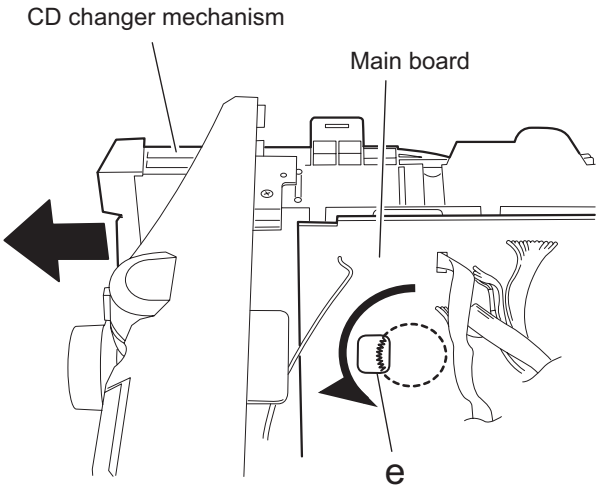


Fig.10

3.1.4 Removing the CD changer mechanism unit (See Fig.11 to 16)

- Prior to performing the following procedure, remove the top cover / side cover (R) and (L), and the CD fitting.
  (1) Disconnect the wire from connector CN601 on the turner board on the right side of the body.
  (2) Disconnect the wire from connector CN504 on the AUX board on the inner side of the front panel.
  (3) Disconnect the wire from connector CN801, CN802 and CN803 on the power board.
  (4) Disconnect the wire from connector CN100, CN101 and CN207 on the main board at the bottom of the CD changer mechanism unit, and disconnect the card wire from connector CN103. If necessary, release the band attaching the wires.
  (5) From the side of the body, remove the two screws **F** attaching the CD changer mechanism unit.
  (6) From the back of the body, remove the two screws **G** attaching the CD changer mechanism unit.
  (7) Move the CD changer mechanism unit in the direction of the arrow while pulling the rear panel backward, and remove the CD changer mechanism unit.

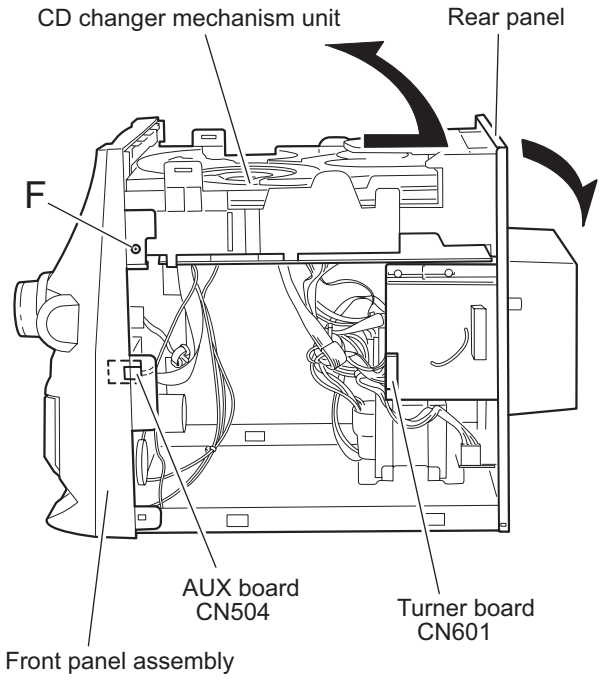


Fig.11

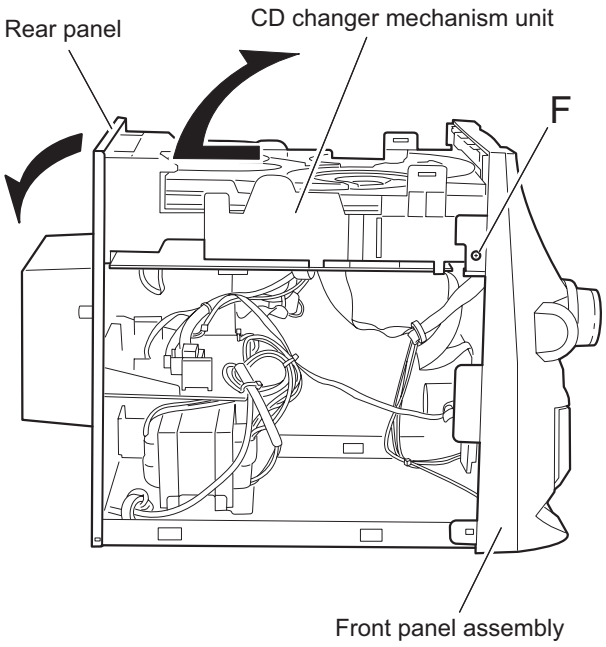


Fig.12

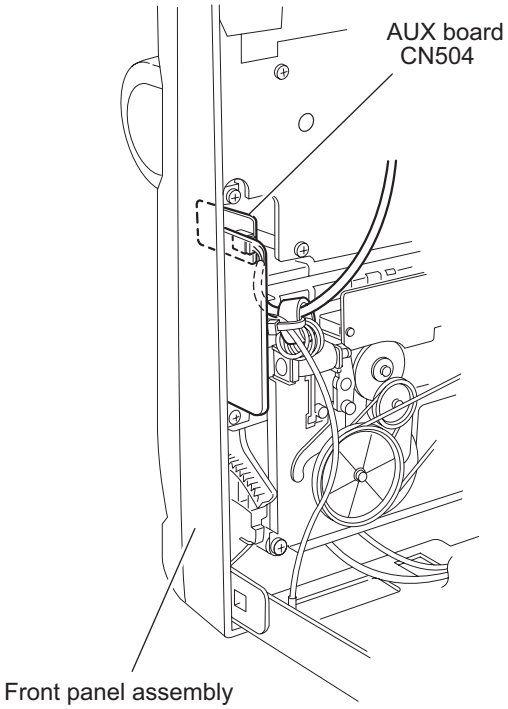


Fig.13

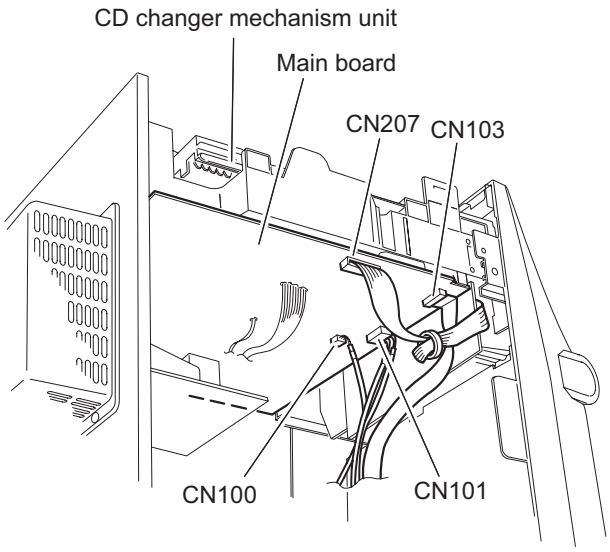


Fig.15

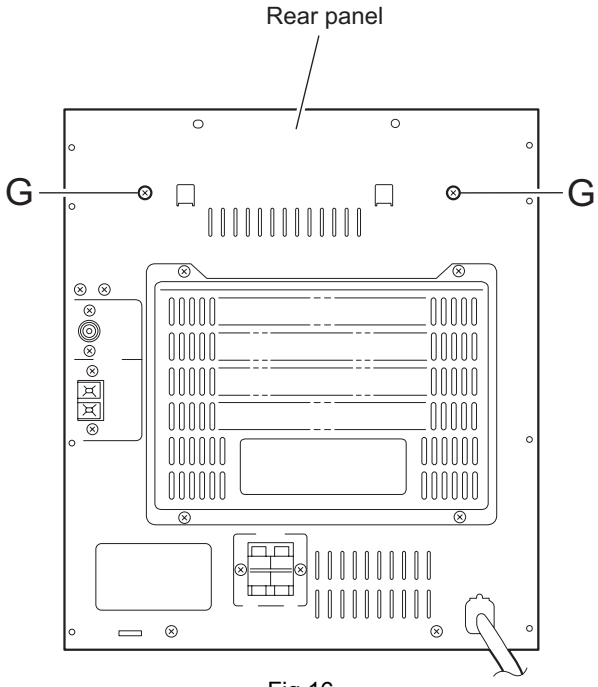


Fig.16

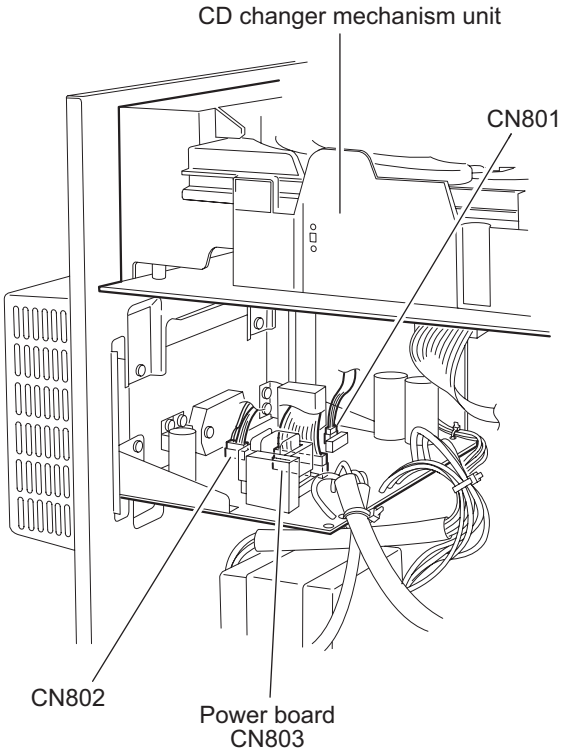


Fig.14

3.1.5 Removing the tuner board (See Fig.17, 18)

- Prior to performing the following procedure, remove the top cover / side cover (R) and (L).
  (1) Disconnect the wire from connector CN601 on the tuner board.
  (2) From the back of the body, remove the two screws **H**, the two screws **J** and the two screws **K** attaching the tuner board respectively.
  (3) Remove the two screws **L** attaching the tuner board holder.

Caution:

You can remove the tuner board without removing the CD changer mechanism unit and the rear panel.

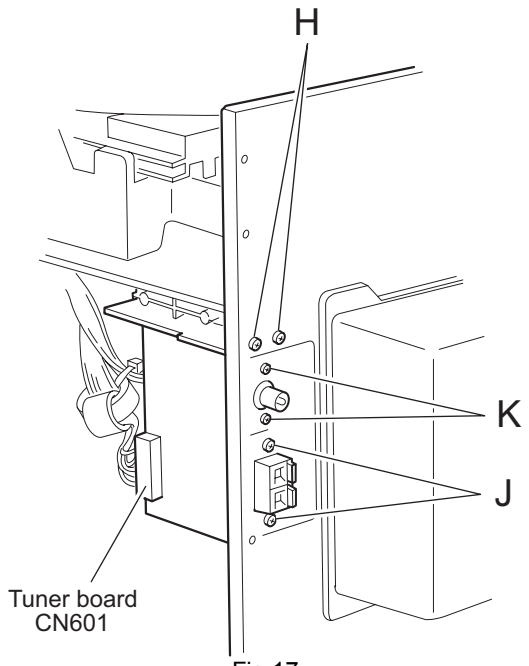


Fig.17

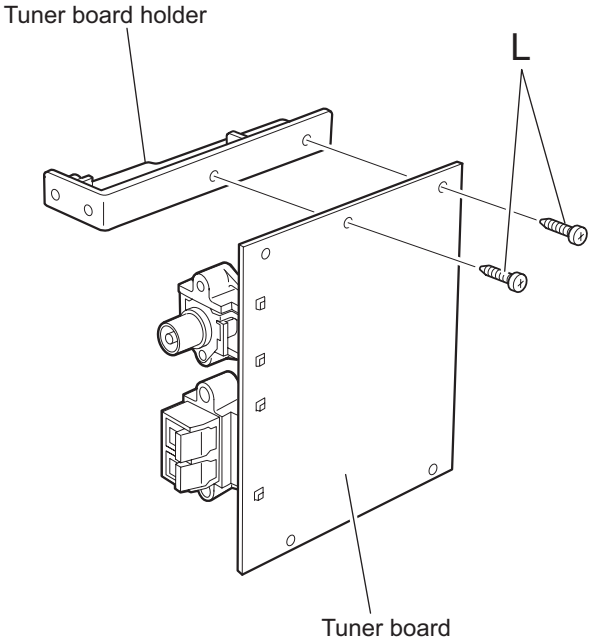


Fig.18

3.1.6 Removing the speaker terminal board (See Fig.19, 20)

- Prior to performing the following procedure, remove the top cover / side cover (R) and (L).
  (1) Disconnect the wire from connector CN901 on the speaker terminal board.
  (2) From the back of the body, remove the two screws **M** attaching the speaker terminal board.

Reference:

You can remove the speaker terminal board without detaching the CD changer mechanism unit and the rear panel.

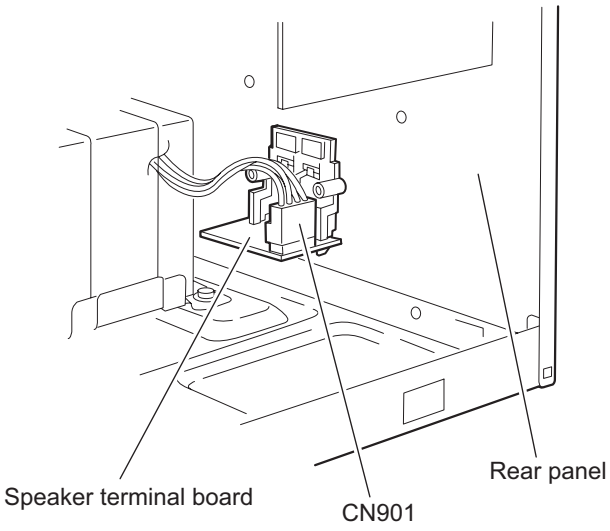


Fig.19

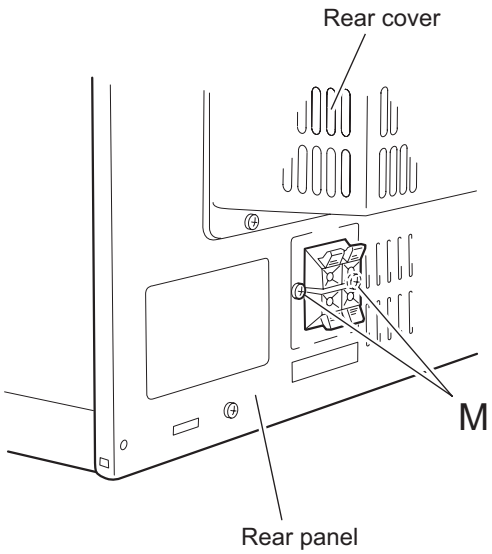


Fig.20

3.1.7 Removing the front panel assembly (See Fig.21 to 24)

- Prior to performing the following procedure, remove the top cover / side cover (R) and (L), the CD fitting / CD changer mechanism unit.
  (1) Disconnect the wire from connector CN861 on the power board.
  (2) Disconnect the earth wire from the base chassis on the bottom of the right side of the body.
  (3) From the bottom of the body, remove the two screws **N** attaching the front panel assembly.
  (4) Release the two joints **f** on the side of the body and the joint **g** on the bottom using a screwdriver, and remove the front panel assembly forward.

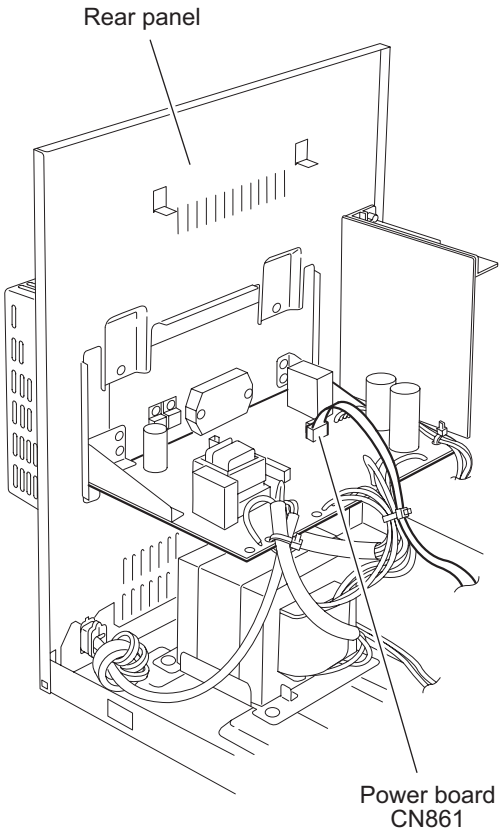


Fig.21

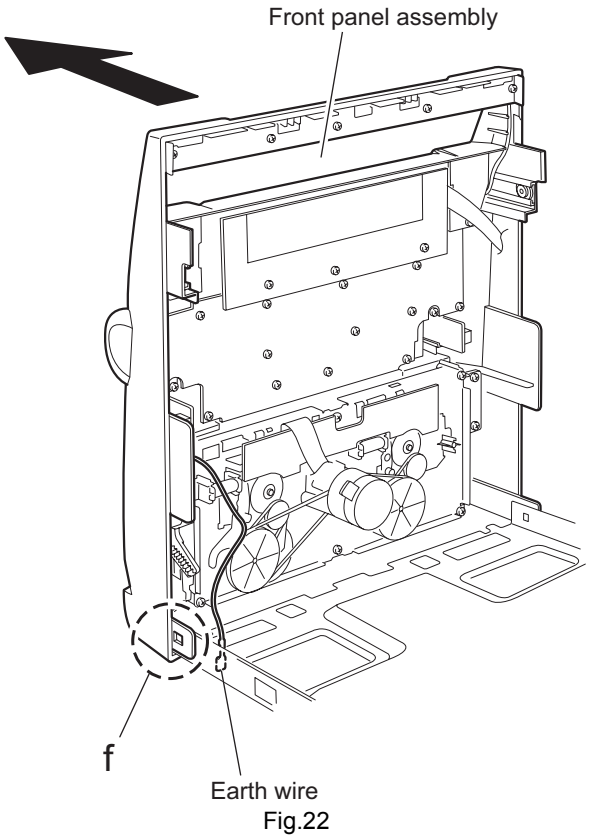


Fig.22

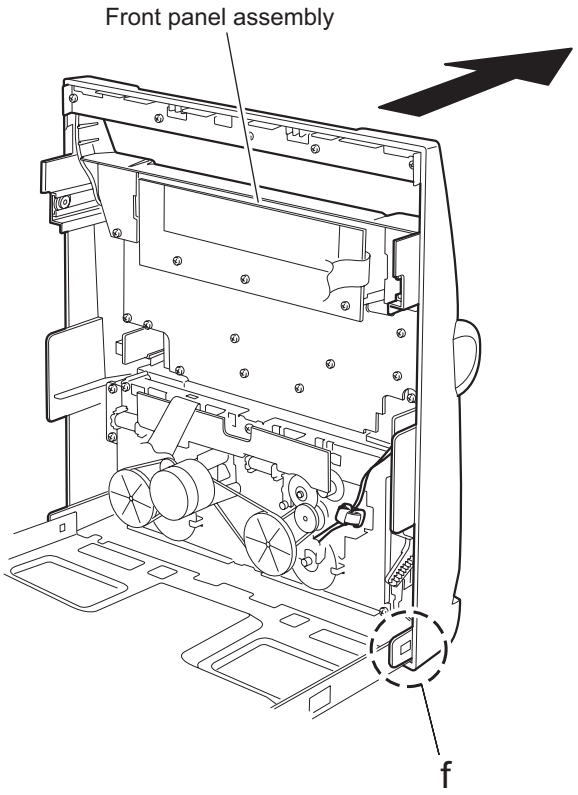


Fig.23

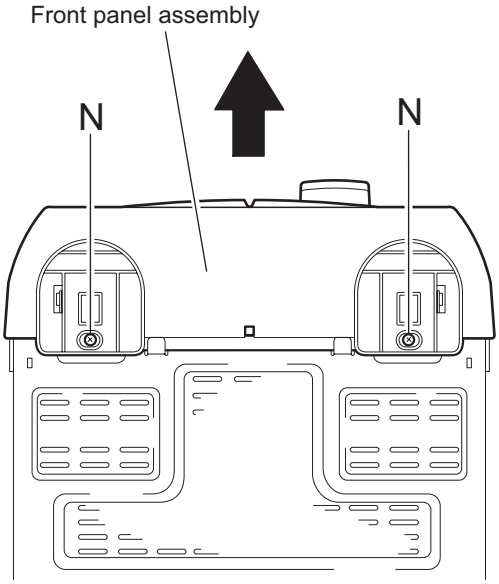
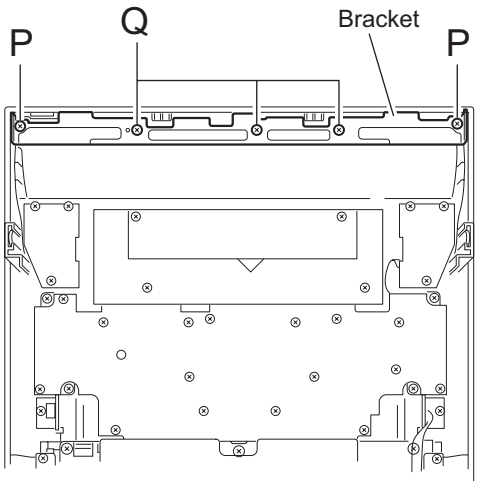


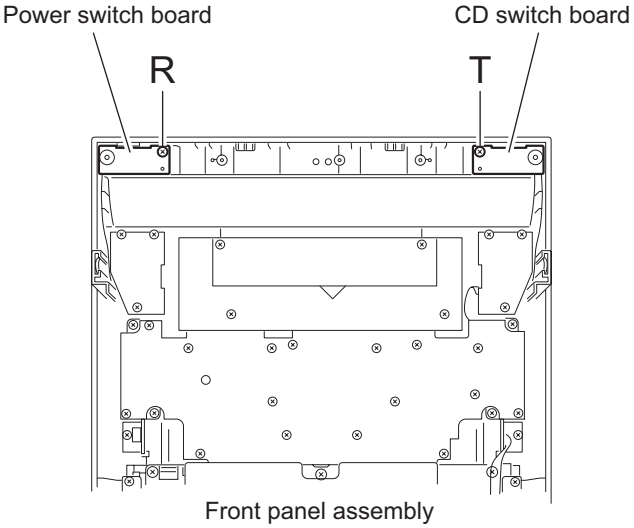
Fig.24

3.1.8 Removing the POWER switch board / CD switch board (See Fig.25, 26)

- Prior to performing the following procedure, remove the front panel assembly.
  (1) Remove the two screws **P** and the three screws **Q** attaching the bracket.
  (2) Remove the screws **R** attaching the POWER switch board.
  (3) Remove the screw **T** attaching the CD switch board.



Front panel assembly
Fig.25



Front panel assembly
Fig.26

3.1.9 Removing the REC select switch board / PROGRAM select switch board (See Fig.27)

- Prior to performing the following procedure, remove the front panel assembly.
  (1) Remove the three screws **U** attaching the REC select switch board.
  (2) Remove the three screws **Y** attaching the CD switch board.

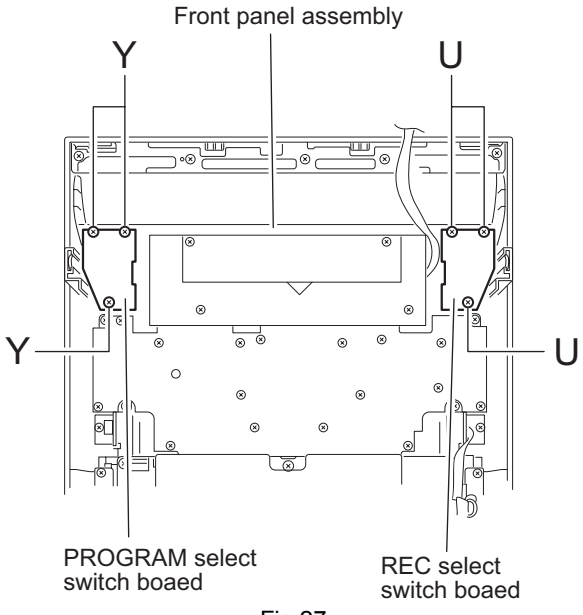


Fig.27

3.1.10 Removing the LCD board / STANDBY board (See Fig.28, 29)

- Prior to performing the following procedure, remove the front panel assembly.
  (1) Remove the four screws **A'** attaching the LCD board and disconnect the wire from connector CN505.
  (2) Remove the two screws **B'** attaching the STANDBY board.

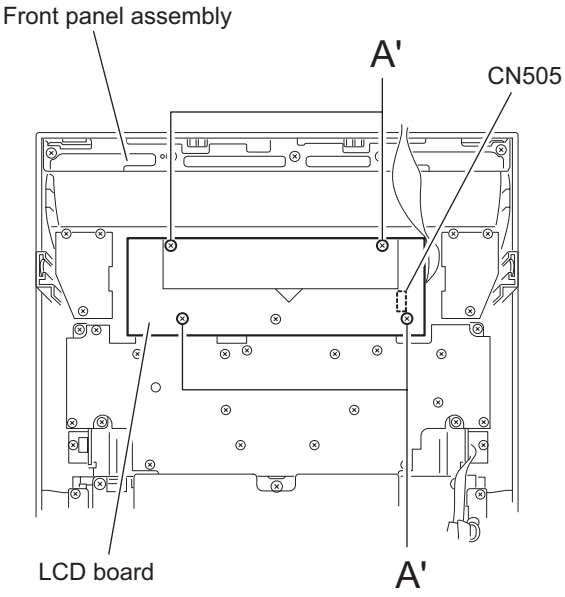


Fig.28

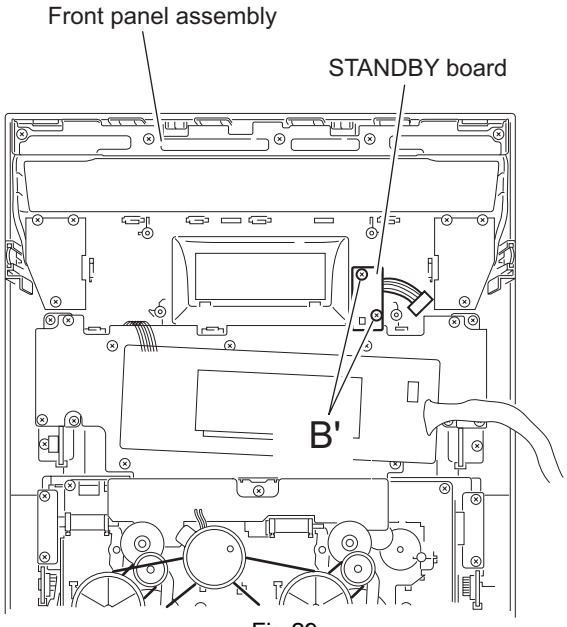


Fig.29

3.1.11 Removing the system board / headphone board / AUX board (See Fig.30 to 34)

- Prior to performing the following procedure, remove the front panel assembly.
  (1) Pull out the volume knob on the front side of the front panel assembly. Release the three tabs of the knob holder and pull out the knob holder.
  (2) Remove the nut and the washer from the volume shaft.
  (3) From the back of the front panel assembly, remove the seventeen screws **D'** attaching the system board.
  (4) Remove the screw **E'** attaching the headphone board fitting plate and pull out the headphone board.
  (5) Remove the screw **F'** attaching the AUX board fitting plate and pull out the AUX board.

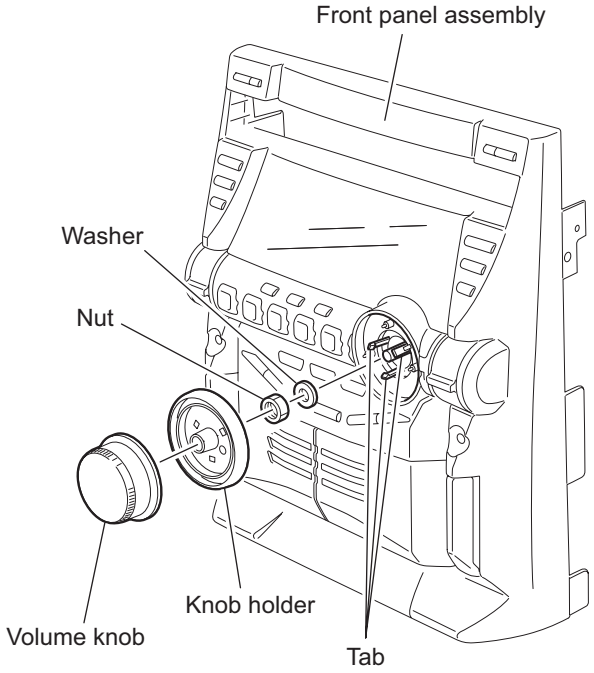


Fig.30

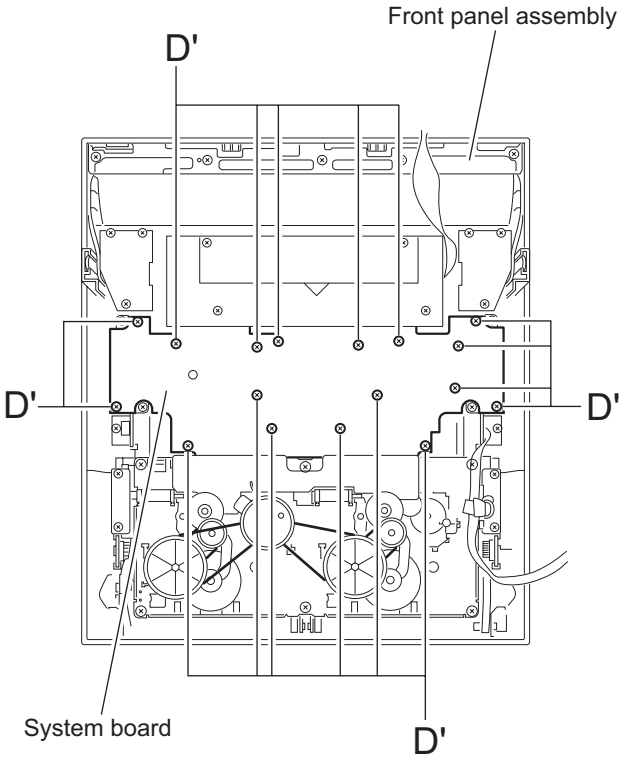


Fig.31

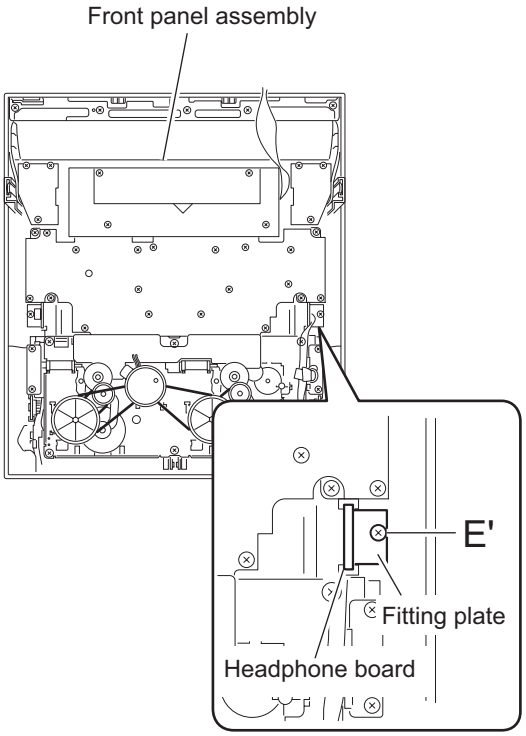


Fig.32

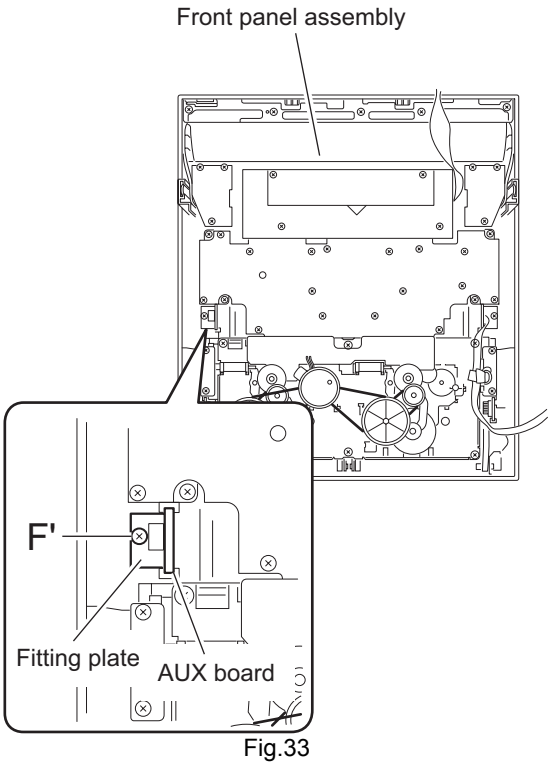


Fig.33

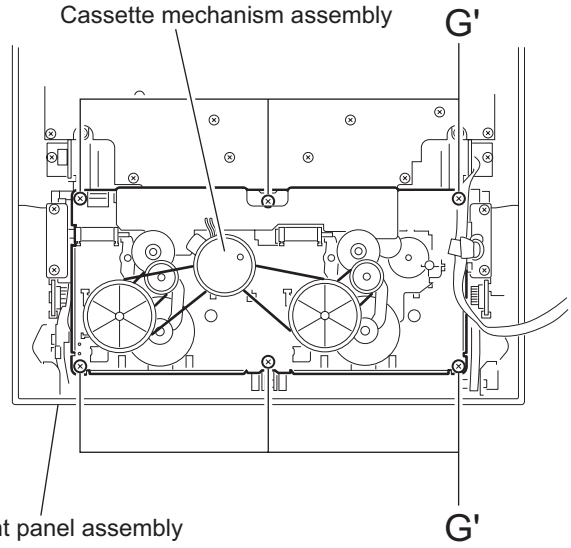


Fig.34

3.1.12 Removing the cassette mechanism assembly (See Fig.35)

- Prior to performing the following procedure, remove the front panel assembly.
  (1) Remove the six screws **G'** attaching the cassette mechanism assembly.

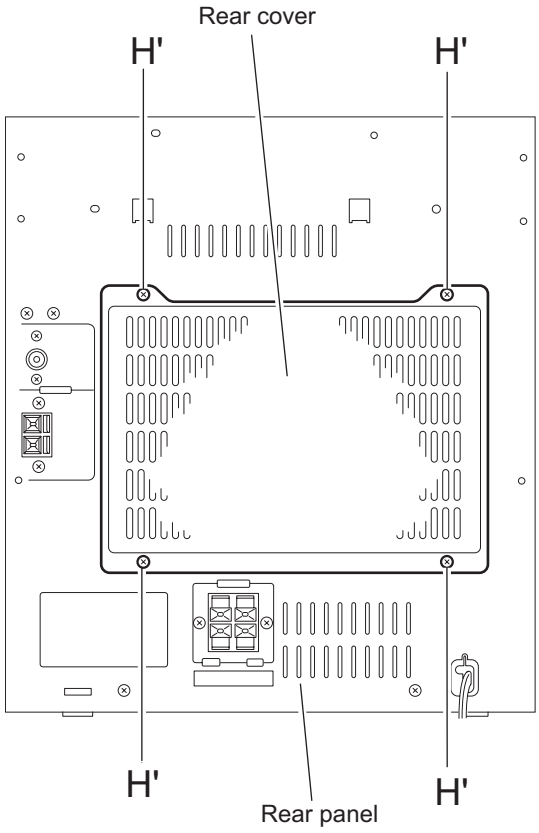


Fig.35

3.1.13 Removing the rear cover / rear panel (See Fig.36 to 38)

- Prior to performing the following procedure, remove the top cover / side cover (R) and (L), the CD fitting / CD changer mechanism unit.
  (1) From the back of the body, remove the four screws **H'** attaching the rear cover.
  (2) From the back of the body, remove the two screws **J'** attaching the rear panel.
  (3) Release the two joints **h** on the bottom of the right and left sides of the rear panel, and remove the rear panel. The rear panel comes off with the power board and the heat sink.

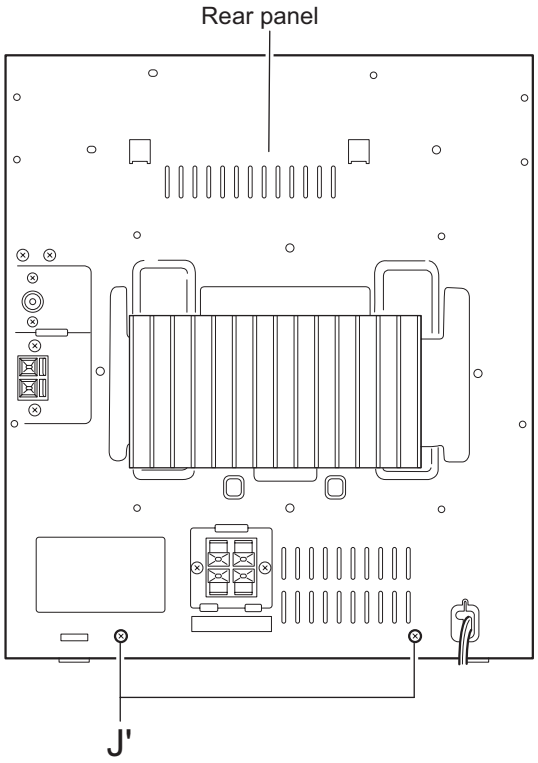


Fig.36

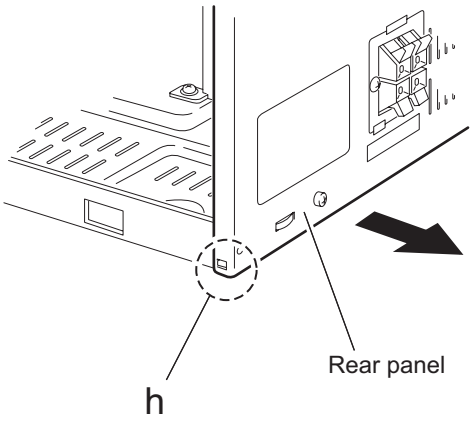


Fig.37

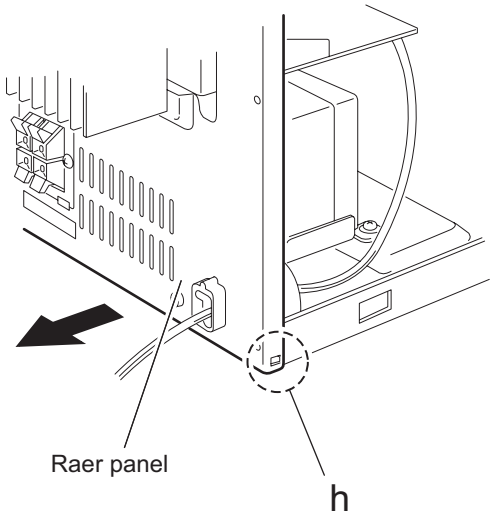


Fig.38

3.1.14 Removing the heat sink / power board (See Fig.39 to 42)

- Prior to performing the following procedure, remove the top cover / side cover (R) and (L), the CD fitting / CD changer mechanism unit, the rear cover / rear panel.
  (1) From the inner side of the rear panel, remove the four screws **K'** attaching the heat sink. Move the heat sink in the direction of the arrow along the notch of rear panel and remove it with the heat sink and the power board forward.
  (2) Remove the four screws **M'** and the four screws **N'** attaching the board bracket (R) and (L).
  (3) Remove the two screws **P'** and the two screws **Q'** attaching the power board.
  (4) If necessary, unsolder the power cord and the wire extending from the power transformer assembly.

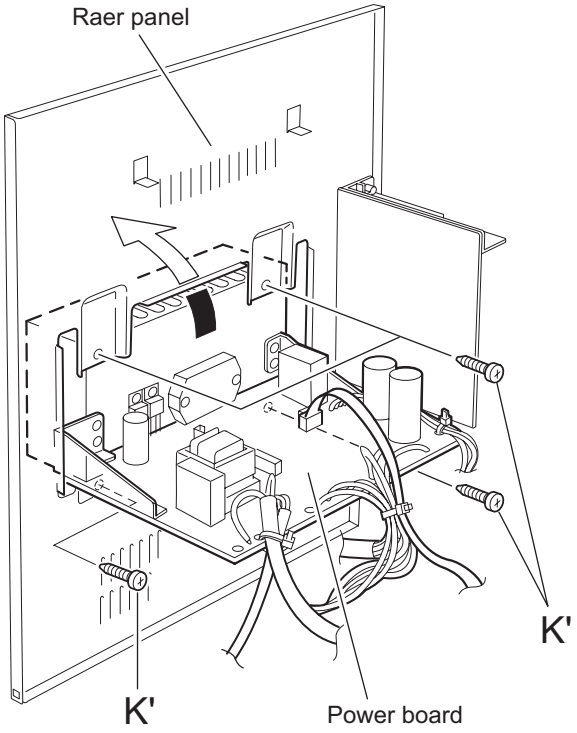


Fig.39

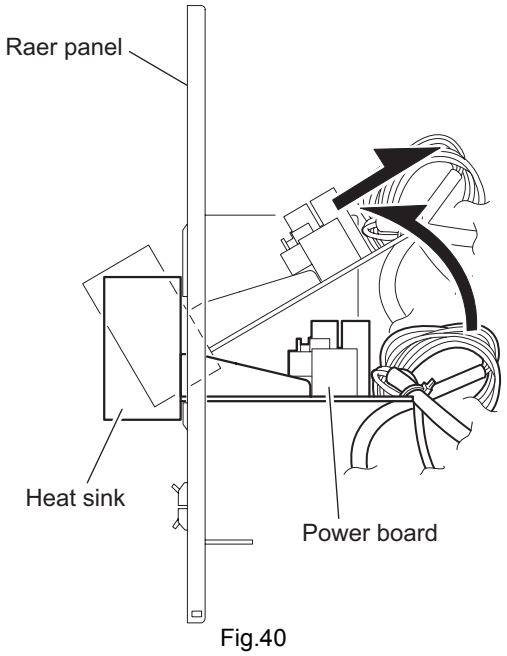


Fig.40

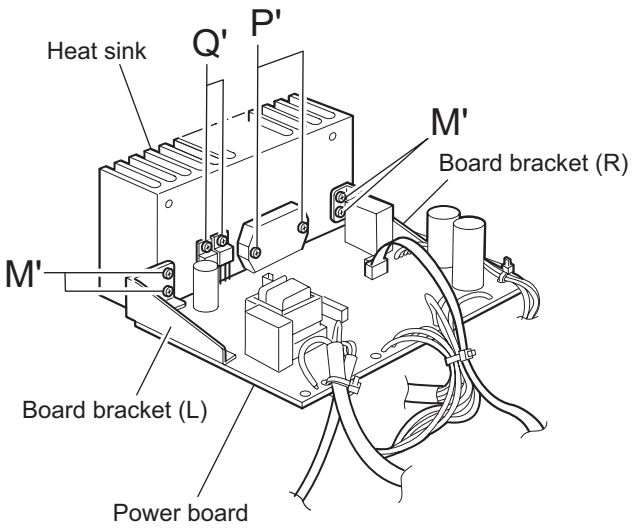


Fig.41

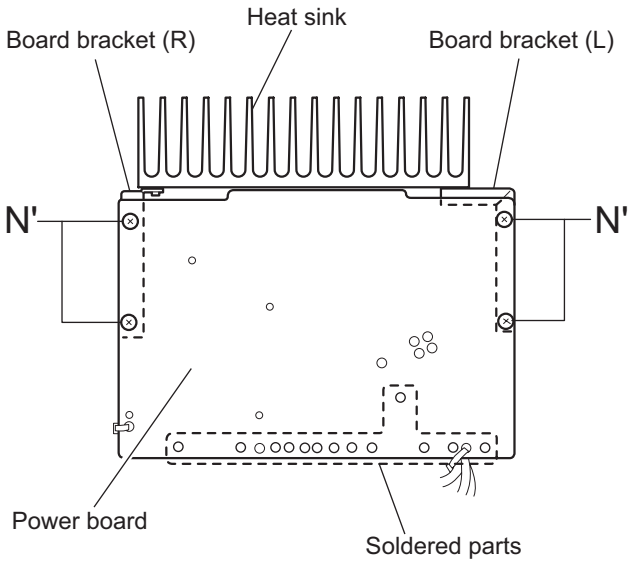


Fig.42

3.1.15 Removing the power transformer assembly (See Fig.43)

- Prior to performing the following procedure, remove the top cover / side cover (R) and (L), the CD fitting / CD changer mechanism unit and the rear cover / rear panel.
  (1) Move the cord stopper in the direction of the arrow and disconnect the power cord.
  (2) Remove the four screws **R'** attaching the power transformer assembly.
  If necessary, unsolder each wire.

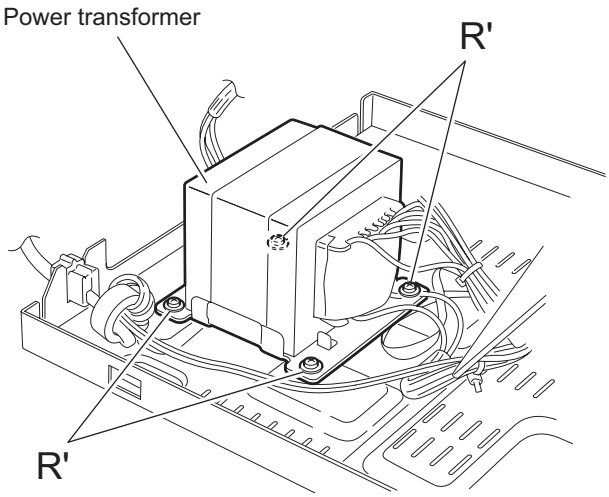


Fig.43

3.1.16 Removing the main board
(See Fig.44 to 46)

- Prior to performing the following procedure, remove the top cover / side cover (R) and (L), the CD fitting / CD changer mechanism unit.

Caution:

Before disconnecting the card wire from the CD pickup board and connector CN401 on the main board, make sure to solder the short-circuit point on the CD pickup board. If you do not follow this instruction, the pick up may be damaged.

(1) From the bottom of the CD changer mechanism unit, remove the two screws **T'** and the four screws **U'** attaching the main board.
(2) Disconnect the wire from connector on the main board.
(3) Move the main board in the direction of the arrow as show in Fig.45, disconnect the wire from connector on the motor board in the inner part of the main board.
(4) Move the main board turning in the direction of the arrow ash shown in Fig.45.
(5) Solder the short-circuit point on the CD pickup board and disconnect the wire from the CD pickup board.

Caution:

When reattaching the main board, make sure to connect the card wire to connector CN401 on the main board and to the CD pickup board before unsoldering the short-circuit point.

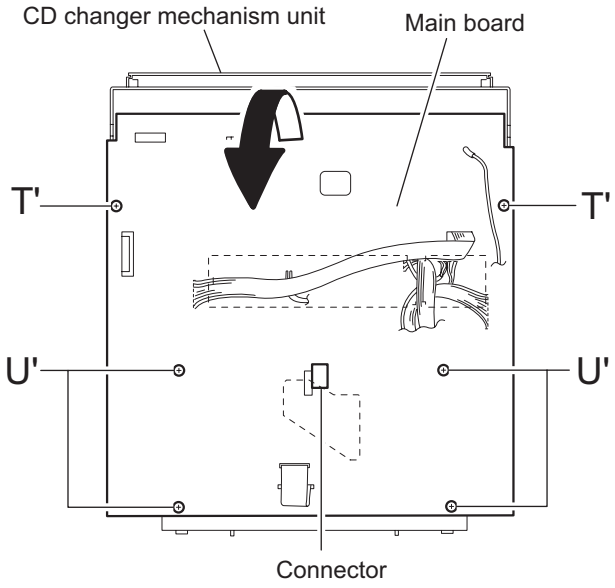


Fig.44

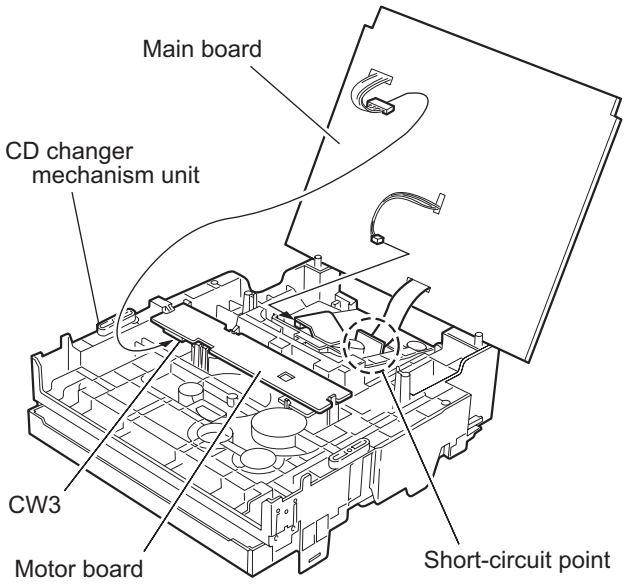


Fig.45

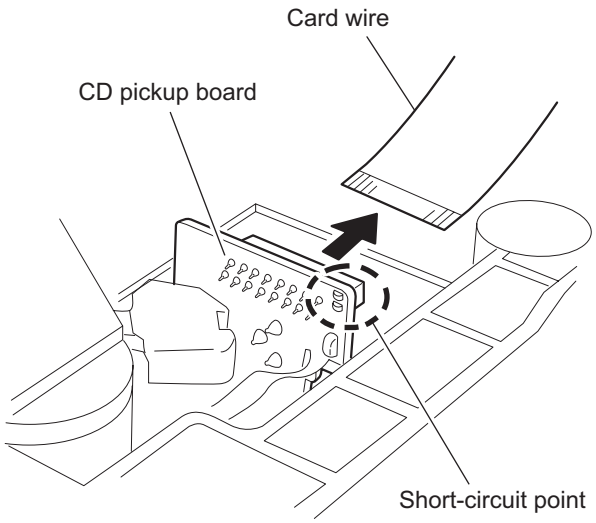


Fig.46

3.2 Speaker

3.2.1 Removing the front cabinet (See Fig.1 to 3)

Caution:

When performing the following procedure, apply the cloth to the product for preventing it from damage.

(1) Put the screwdriver into the two notch a at the bottom of the speaker, and remove the front panel assembly while pulling out the six bosses on the inner side of the front panel assembly forward.

Caution:

The six bosses are attached with bond. Apply the cloth to the product for protect from damage, and pull out each boss carefully.

(2) Disconnect the two wires of the main speaker terminal from the back of the front panel assembly.

(3) Disconnect the two wires of the sub speaker terminal from the back of the front panel assembly.

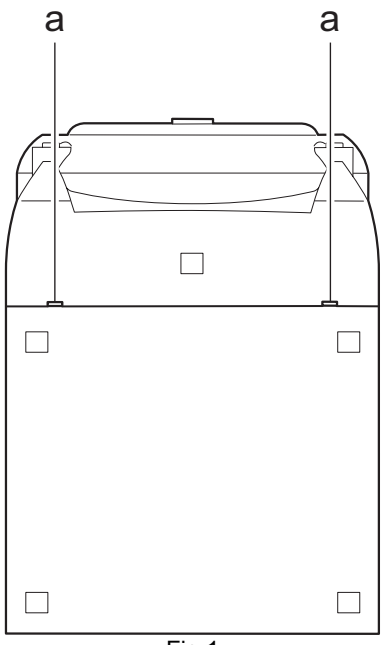


Fig.1

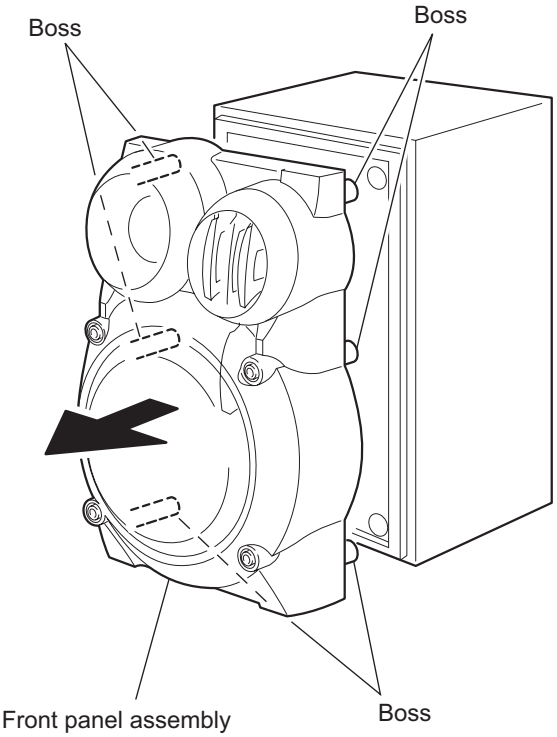


Fig.2

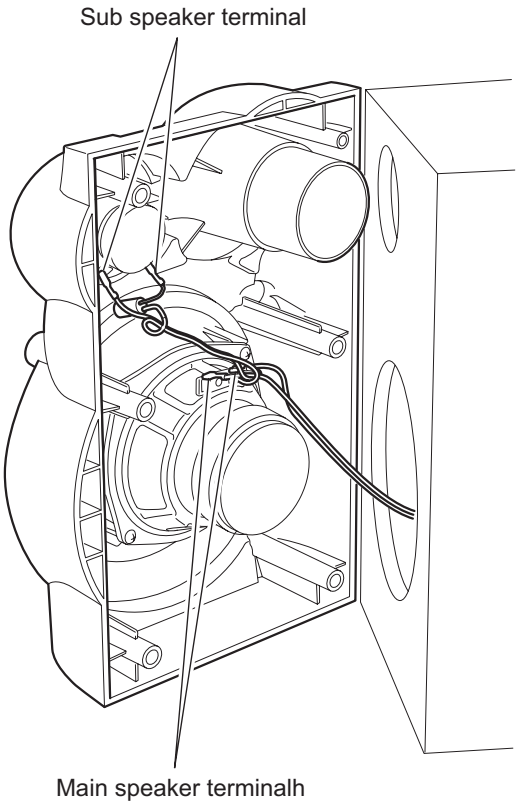


Fig.3

3.2.2 Removing the main speaker / sub speaker (See Fig.4)

- Prior to performing the following procedure, remove the front cabinet.
  (1) Remove the four screws **A** attaching the main speaker.
  (2) Remove the two screws **B** attaching the sub speaker.

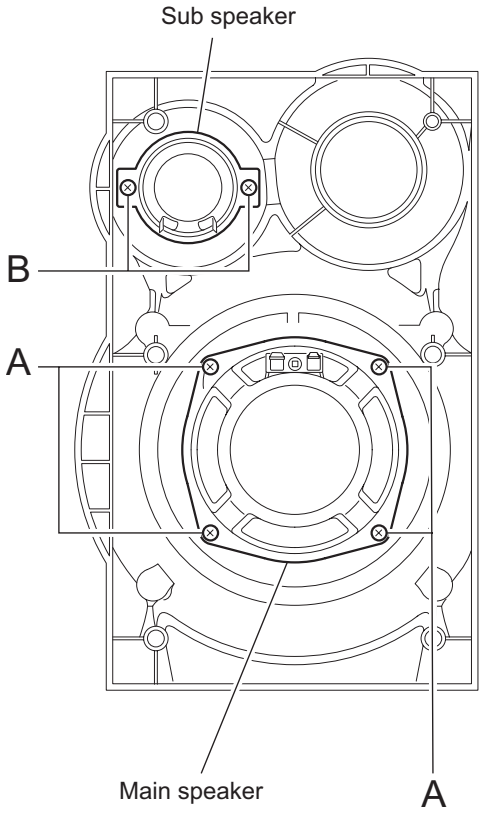


Fig.4

SECTION 4
ADJUSTMENT

4.1 Measurement Instruments Required for Adjustment

(1) AM signal generator
(2) FM signal generator
(3) Intermadiate frequency sweep generator
(4) FM stereo signal generator
(5) Low-frequency oscillator
(oscillation frequency 50Hz-20kHz, 0dB output with 600 Ω impedance)
(6) Attenuator (600 Ω impedance)
(7) Electrinic voltmeter
(8) Distortion meter
(9) Wow & Flutter meter
(10) Frequency counter meter
(11) Test tape
VT712 : for Tape speed and wow flutter
VT724 : for reference level
VT703L : for head azimuth adjustment
Blank tape for recording

4.2 Measurement conditons

Radio section

FM 1 kHz, 22.5 kHz deviation
FM STEREO : 1 kHz, 67.5 kHz deviation pilot signal 7.5 kHz
AM : 1 kHz, 30 % modulation
Reference output :Headphone output (0.15V) 32 Ω
Speaker output 1W (2.5V) 6 Ω

Cassette amp section : 1 kHz

Reference output :Headphone output (0.15V) 32 Ω
Speaker output 1 W (2.5V) 6 Ω
Standard mode of function knob:Press TAPE knob of select TAPE mode

CD section

CD test disc : CTS-1000

4.3 Cassette amp section

Item	Measuring condition	Check and adjustment procedure	Standard value	Adjusting part
Head azimuth adjustment	Test tape : VT703L Signal output terminal : SPK out (with 6 ohm load)	1. Playback the test tape VT703L. 2. Adjust the head azimuth adjusting screw so that the phase difference between the R and L channels is minimized at an output level that is within (20dB of the maximum output level. After this adjustment. Lock the head azimuth adjusting screw with screw sealant to cover more than a half of the screw head. 3. When the head azimuth is maladjusting correct it with the head azimuth adjusting screw.	Output level : Within (2 dB of Maximum output level. *Phase difference R and L channels : Minimum	Head azimuth adjusting screw (To be use only after head replacement)
Tape speed and wow/flutter check and adjustment	Test tap : VT712 Signal output terminal : SPK out (with 6 ohm load)	1. Playback the test tape VT712 by the end portion. 2. Connect a frequency counter and check that it reads between 2940 and 3090 Hz. If not, adjust the frequency with the motor semifixed resistor. 3. Check that the wow/flutter is within 0.35% (unweigthed).	2940 to 3090 Hz within 0.35% (unweighted)	Tape speed Motor semifixed resistor Check only
Bias frequency chek	Test tape : B Signal output terminal : Cassette REC/Play head	Set the Tuner or CD function and with TAPE to record check to see if the frequency at the measuring point REC-IF is 85 kHz if not adjust T100 until the frequency counter indicates 85 kHz+1kHz-1kHz.	Level difference for 1 kHz signal : within (0+3dB-6dB)	
Rec anf PB frequency response adjustment	Test tape : Brank tape Signal input : CD 1 kHz -20 dBs Signal output terminal : SPK out (with 6 ohm load)	Record the reference CD 1 kHz signal and 10 kHz signal alternately repeatedly. While playing back the recorded signal of the 1 kHz signal doffer from that of the 10 kHz signal by within (0+3dB-6dB).	Level difference for 1 kHz signal : within (0+3dB-6dB)	

4.4 Tuner section (B/EV version)

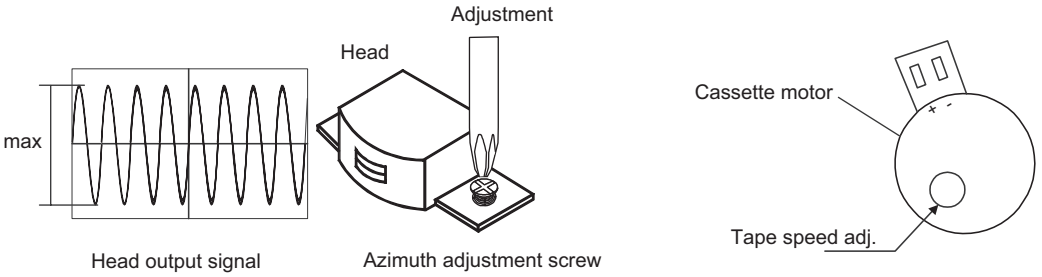
Item	Measuring condition	Check and adjustment procedure	Standard value	Adjusting part
AM IF adjustment	Signal input : Loop antenna Signal output : IC602 pin 16	1. Set the intermediate frequency sweep generator to AM 450 kHz. 2. Adjust IFT601 for maximum and center output		IFT601
AM tracking adjustment	Signal input : Loop antenna signal output : H.phone out (with 32 ohm load)	1. Set the TUNER at 522 kHz adjust IFT605 until the test point TP4 voltage at 1.3V+/-.1V. 2. Set the TUNER at 1629 kHz, check the test point TP4 voltage at 7.0 to 8.0 V. 3. Set the TUNER and S/G at 600 kHz, adjust ITT606 for maximum output. 4. Set the TUNER and S/G at 1500 kHz, adjust the VC606 for maximum output. 5. Repeat the avobe step 3 and 4.		IFT605 IFT606 VC606
FM tracking	Signal input : Analog antenna FM ANT Fm GND signal output : H.phone out (with 32 ohm load)	1. Set the TUNER at 87.5MHz adjust L604 until the point TP5 voltage at 1.5V+/-0.1V. 2. Set the TUNER at 108MHz, check the point TP5 voltage at 7.2-8.0V. 3. Set the TUNER and S/G at 90.1MHz, adjust L605 for amximum output. 4. Set the TUNER and S/G at 106.1MHz, adjust the VC604 for maximum output.		L604 L605 VC604

4.5 Tuner section (E/EN version)

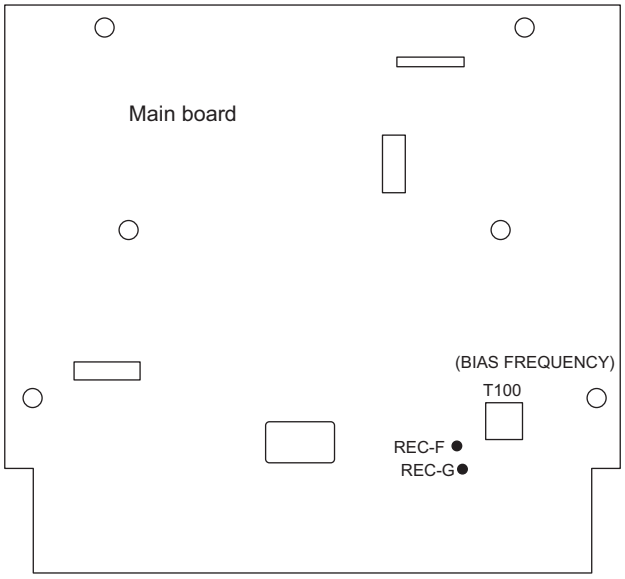
Item	Measuring condition	Check and adjustment procedure	Standard value	Adjusting part
AM IF adjustment	Signal input : Loop antenna Signal output : IC602 pin 18	1. Set the intermediate frequency sweep generator to AM 450 kHz. 2. Adjust IFT603 for maximum and center output		IFT603
AM tracking adjustment	Signal input : Loop antenna signal output : H.phone out (with 32 ohm load)	1. Set the TUNER at 522 kHz adjust IFT602 until the test point TP13 voltage at 1.3V+/-.1V. 2. Set the TUNER at 1629 kHz, check the test point TP13 voltage at 7.0 to 8.0 V. 3. Set the TUNER and S/G at 603 kHz, adjust IFT604 for maximum output. 4. Set the TUNER and S/G at 1404 kHz, adjust the VC601 for maximum output. 5. Repeat the avobe step 3 and 4.		IFT602 IFT604 VC601
FM tracking	Signal input : Analog antenna FM ANT Fm GND signal output : H.phone out (with 32 ohm load)	FM IF : 1. Set the TUNER at FM mode 2. Adjust IFT606 to make the test point (TP4) swave symmetry. FM VT : Check test point TP14 to make sure the voltage 1.5-8.5V.		

4.6 Location of adjusting parts

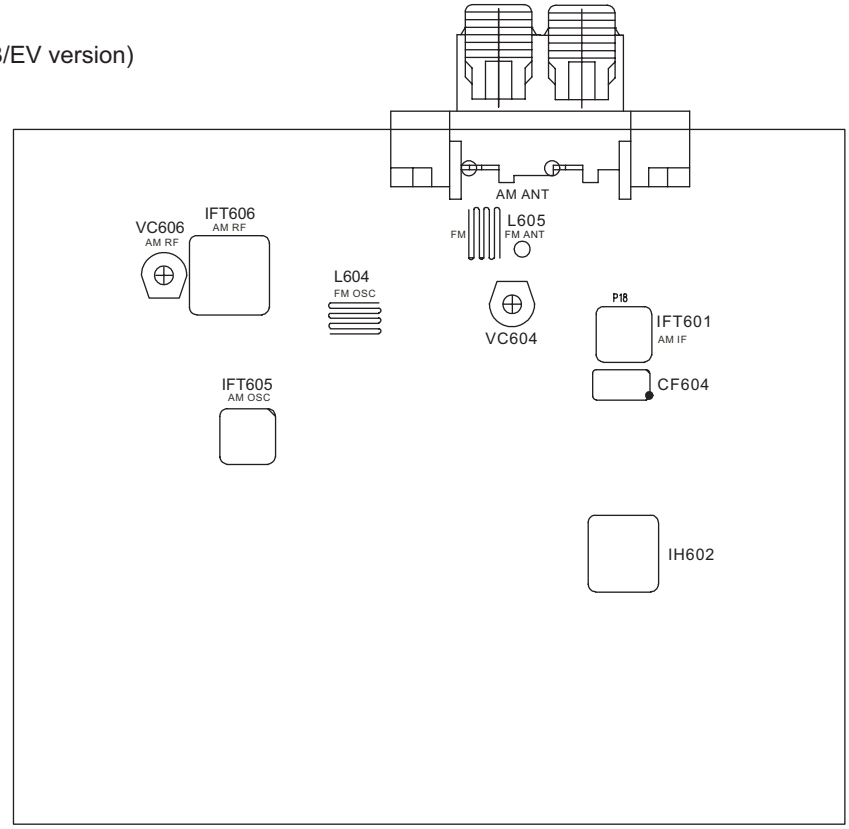
Cassette mechanism section
(caution) For adjusting any head, be sure to use a screw driver degaussed.



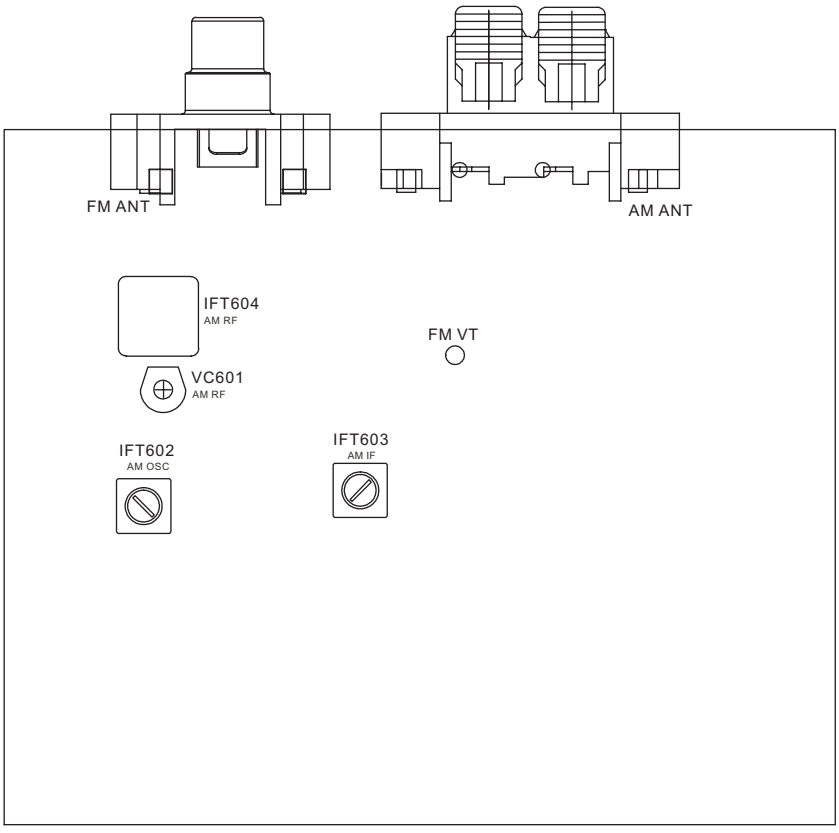
Main board



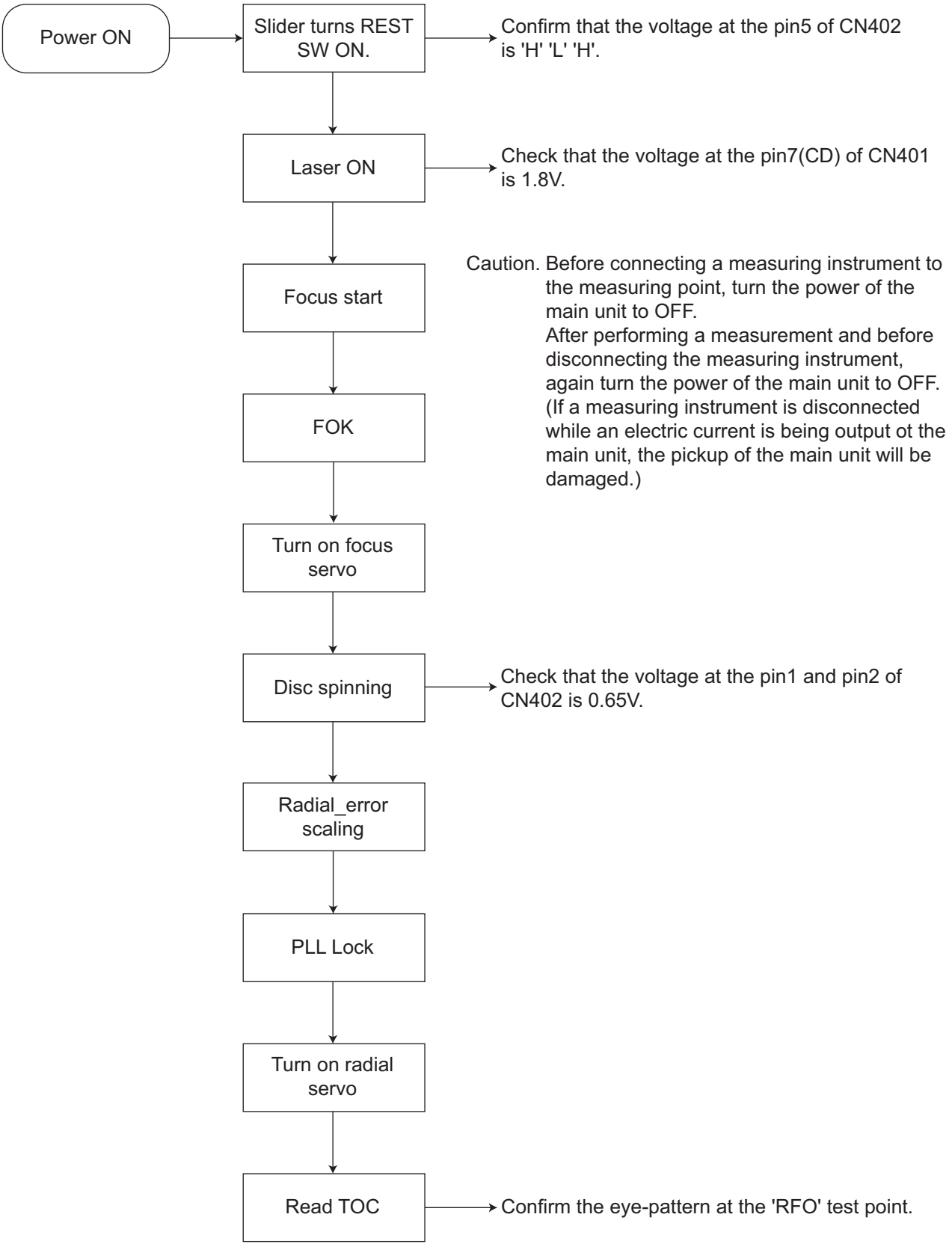
Tuner section (B/EV version)



Tuner section (E/EN version)



4.7 Flow of functional operation until TOC read



Caution. Before connecting a measuring instrument to the measuring point, turn the power of the main unit to OFF.
After performing a measurement and before disconnecting the measuring instrument, again turn the power of the main unit to OFF.
(If a measuring instrument is disconnected while an electric current is being output ot the main unit, the pickup of the main unit will be damaged.)

SECTION 5
TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.

JVC
Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB306)

Printed in Japan
WPC

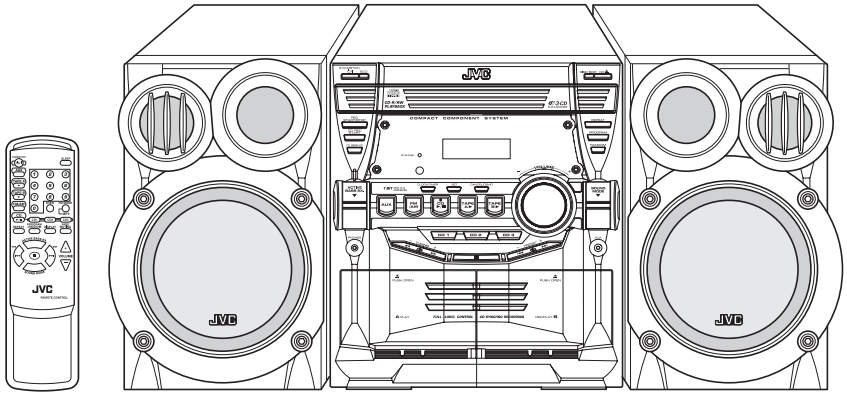
JVC

SCHEMATIC DIAGRAMS

COMPACT COMPONENT SYSTEM

MX-KB22,MX-KB1

CD-ROM No.SML200408



SP-MXKB22
SP-MXKB1

CA-MXKB22
CA-MXKB1

SP-MXKB22
SP-MXKB1

COMPACT disc DIGITAL AUDIO

MX-KB22
Area suffix
EV ---------- Eastern Europe

MX-KB1
Area suffix
B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe
EV ---------- Eastern Europe

Contents

Wiring diagram ---------- 2-1
Block diagrams ---------- 2-2
Standard schematic diagrams ---------- 2-4
Printed circuit boards ---------- 2-16 to 19

No.MB306SCH
2004/8

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▬) and ICP (●) or identified by the "⚠" mark nearby are critical for safety.

Wiring diagram

REMARK:

1). AC Cord (E/EN/EV Version)
P/N.: 30-00300-01L

2). AC Cord (B Version)
P/N.: 30-00300-02L

AC CORD
(AC 230V 50 Hz E/B/EN/EV Version)

TRANSFORMER
P/N:15-01002-02

POWER BOARD
P/N:11-01002-01

CN802

P/N:20-61073-11
7P UL2547+2651 P=2 L=250mm

CN803

P/N:20-42110-00
11PIN P=2.5 L=250 mm

CN801

CN861

CN804

P/N:20-45041-80
4P UL1007#20 L=250mm

AC7 AC6 AC9 AC8 AC11 AC10 AC5 AC3 GND1

HEADPHONE BOARD
P/N:11-01002-05

CN902

P/N:20-41051-37
5P UL2651#28 L=500 mm

CN901

SPEAKER BOARD
P/N:11-01002-06

R

L

AUX INPUT

SJ500

CN504

AUX INPUT BOARD
P/N:11-01002-05

P/N:20-61030-02
3P UL547#30 P=2 L=300 mm

CN202

L-IN
AGND
R-IN

CN201

ECO
HP-M
MUTE
STBY
L-OUT
GND
R-OUT

CN206

+5V
AGND
DGND
DGND
+5V
CSND
A7D
A6D
A5D
A4D
A3D
A2D

J602
FM ANT

J601
AM ANT

TUNER BOARD
P/N:11-01002-02 (E, EN)
P/N:11-01002-03 (B, EV)

CN601

TU-R
AGND
TU-L
+5.0V
DGND
STEREO
CD-EN
DATA-BAT
PLL-CLK
PLL-DATA
RDS-CLK
RDS-DAT

CN205

P/N:20-61133-01
13P UL2547+2651 P=2 L=370 mm

CN110

R-IN
GND
L-IN

CN101

R.CH-
R.CH+
GND
L.CH+
L.CH-
GND
E-S

P/N:20-41020-00
2 PIN UL2651#28 P=2 L=250 mm

CN208

CN402

P/N:20-51061-20
6 PIN UL1571#30 P=2 L=100 mm

GND
FM+
FM-
DM-
DM+

CD DECK

PICK UP

3CD MODULE

P/N:20-61030-00
3 PIN UL2547#30 P=2 L=360 mm

P/N:20-61070-00 7 PIN UL2854#30 P=2 L=360 mm

LOGIC DECK

A PLAY HEADER

B R/P HEADER

LOGIC DECK CONTROL BUS

P/N:25-61260-80 13 PIN UL2896 P=1.25 L=260 mm

MAIN BOARD
P/N:11-01002-00

CN103

GND
NL
SOL-B
B-M-SW
B-T-SW
PHO-B
REC-SW
T-MOTOR
A-T-SW
GND
PHO-A
SOL-A
A-M-SW

CN207

AC1
AC2
-27V
DGND
+5.6V
D-CLK
D-DAT
D-STB
IR-IN
JOG-A
JOG-B
KEY2
KEY1

CN204

SW2
GND
SW1
RL-
RL+
+5V
CATH
MO-
MO+

P/N:20-41101-24
10 PIN UL2651#28 P=2 L=250 mm

16.V-CEN
15. COM
14. E
13. D
12. A
11. B
10. C
9. F
8. GND
7. SD
6. VR
5. PD
4. T+
3. T-
2. T-
1. F-

CN401

P/N:25-61135-80
16 P UI2896 P=1 L=135 mm

MOTOR BOARD

CW3

VCC
GND
SWS
LIMS
-RL
+RL
EJT
+5V
MO-
MO+

P/N:20-41130-00
13 PIN UL2651#28 P=2 L=250 mm

CN500

DISPLAY BOARD
P/N:11-01002-07

CN505

IR1
GND
IR3
LED+

P/N:25-83050-05
5 PIN UL2651#28 P=2 L=50 mm

CN501

CN502

CGND
KEY2
KEY1
JOG-B
JOG-A

CN506

P/N:25-94060-80
2 PIN UL2468#26

TOP LEFT KEY
P/N:11-01002-12

CN511

P/N:25-83100-02
2PIN UL2651#28P=2 L=100 mm

LEFT KEY
P/N:11-01002-10

CN510

CN509

P/N:25-94060-80
2PIN UL2468#26

MAIN KEY
P/N:11-01002-09

CN503

P/N:20-41040-00
4 PIN UL2651#28 P=2 L=50 mm

TOP RIGHT KEY
P/N:11-01002-13

CN514

RIGHT KEY BOARD
P/N:11-01002-11

CN513

CN512

P/N:25-83100-02
2P UL2651#28 P=2 L=100 mm

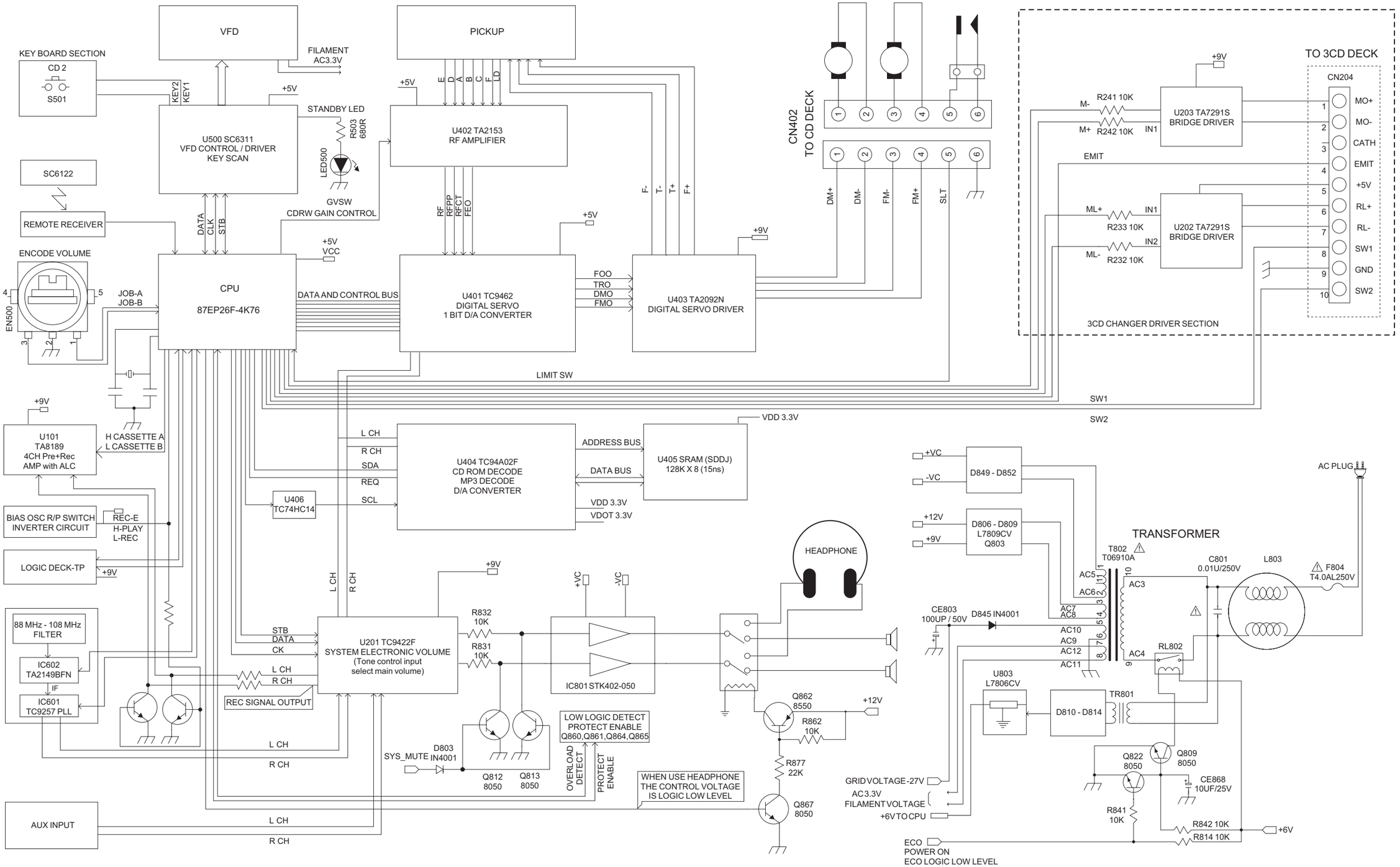
CN508

REMOTE RECEIVE
P/N:11-01002-14

DISPLAY & KEY

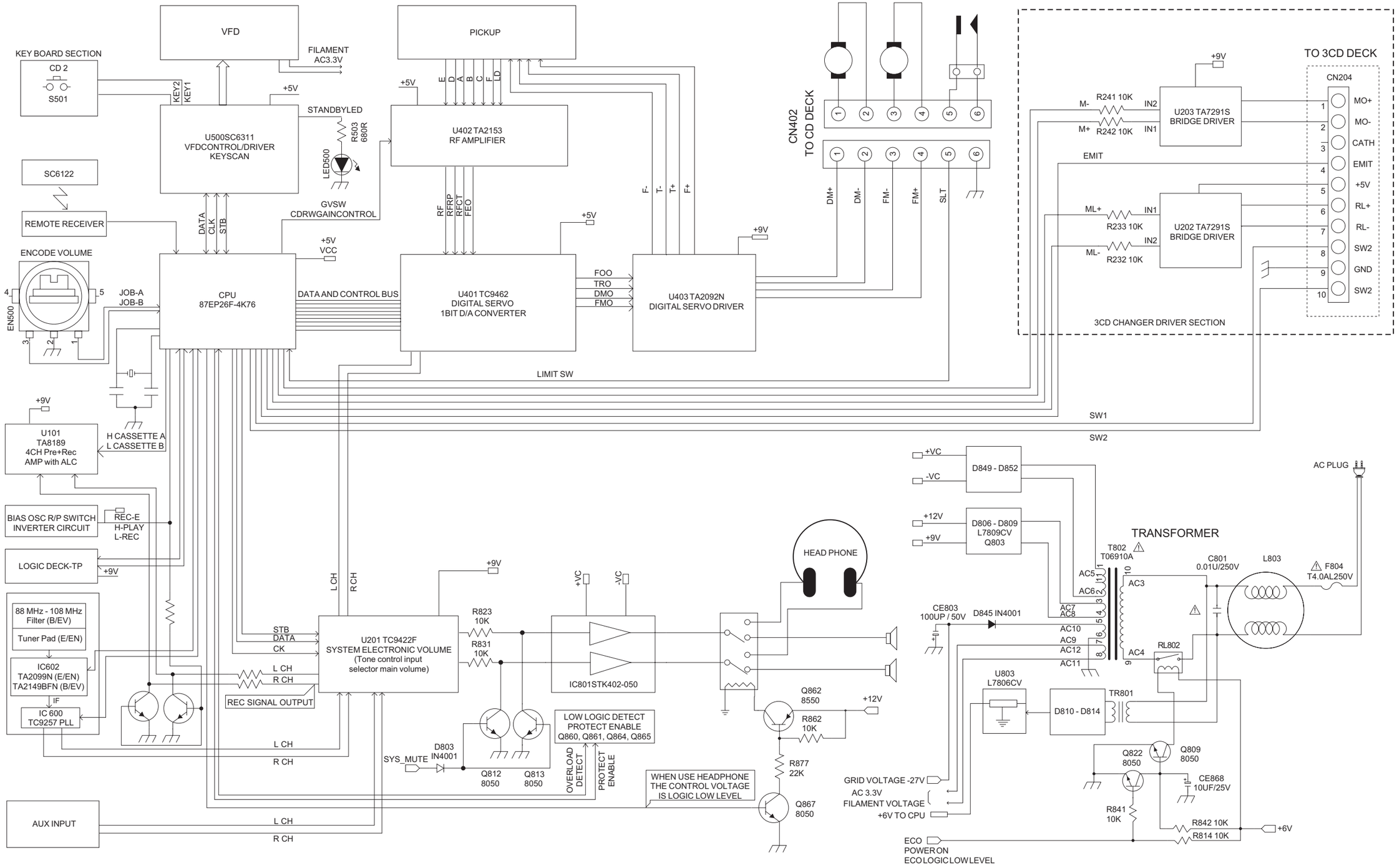
Block diagrams

for MX-KB22



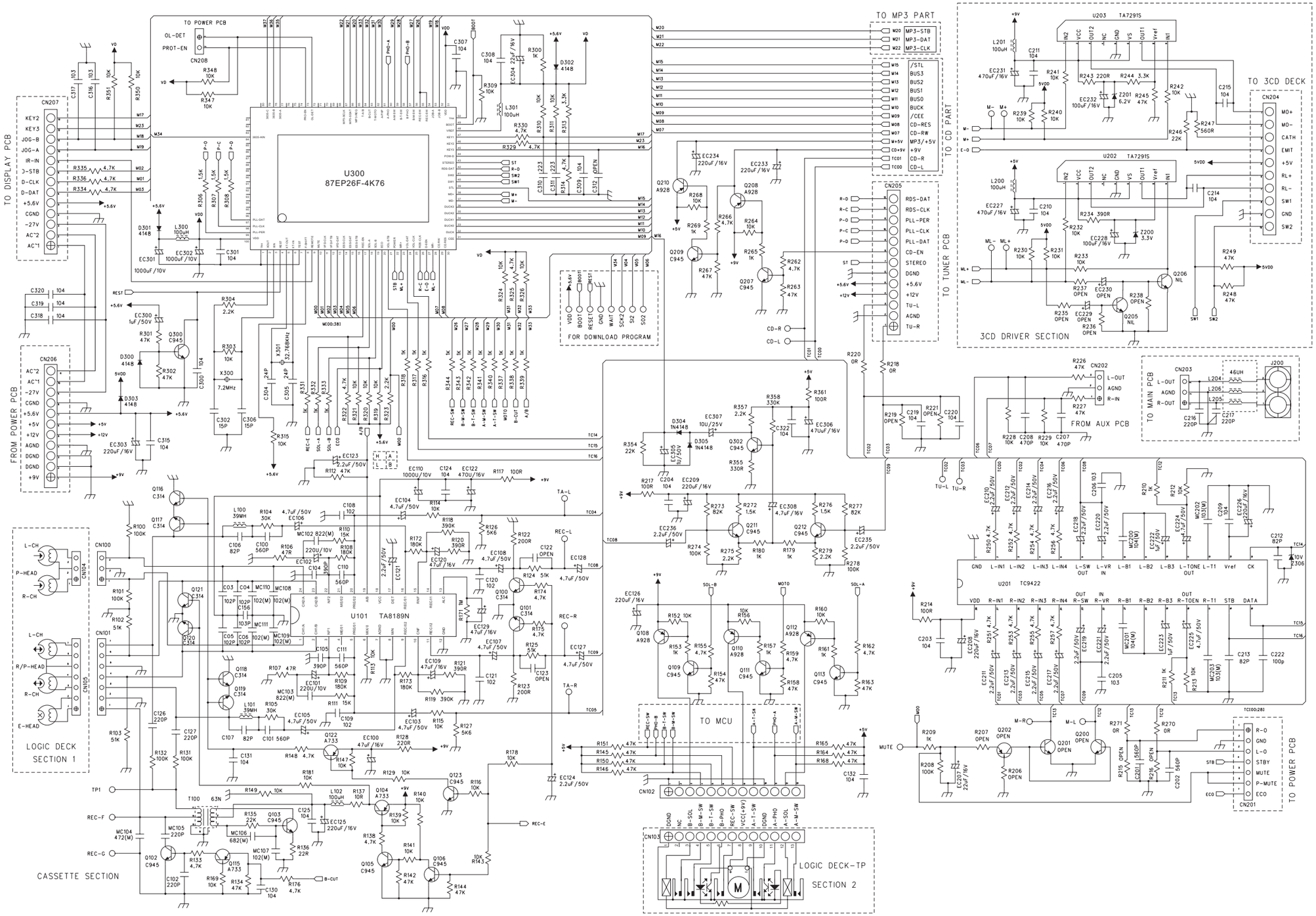
Block diagram

for MX-KB1

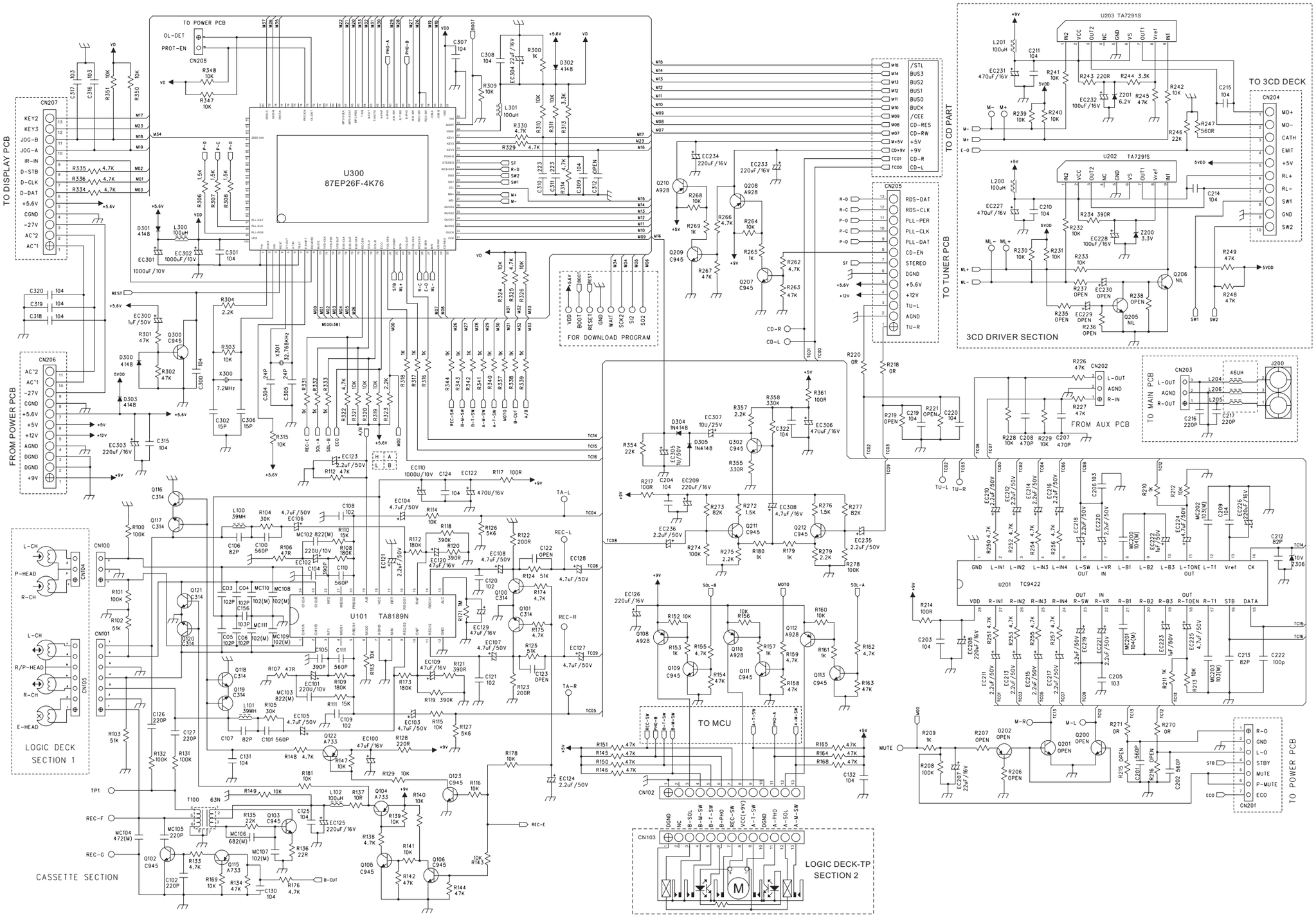


Standard schematic diagrams

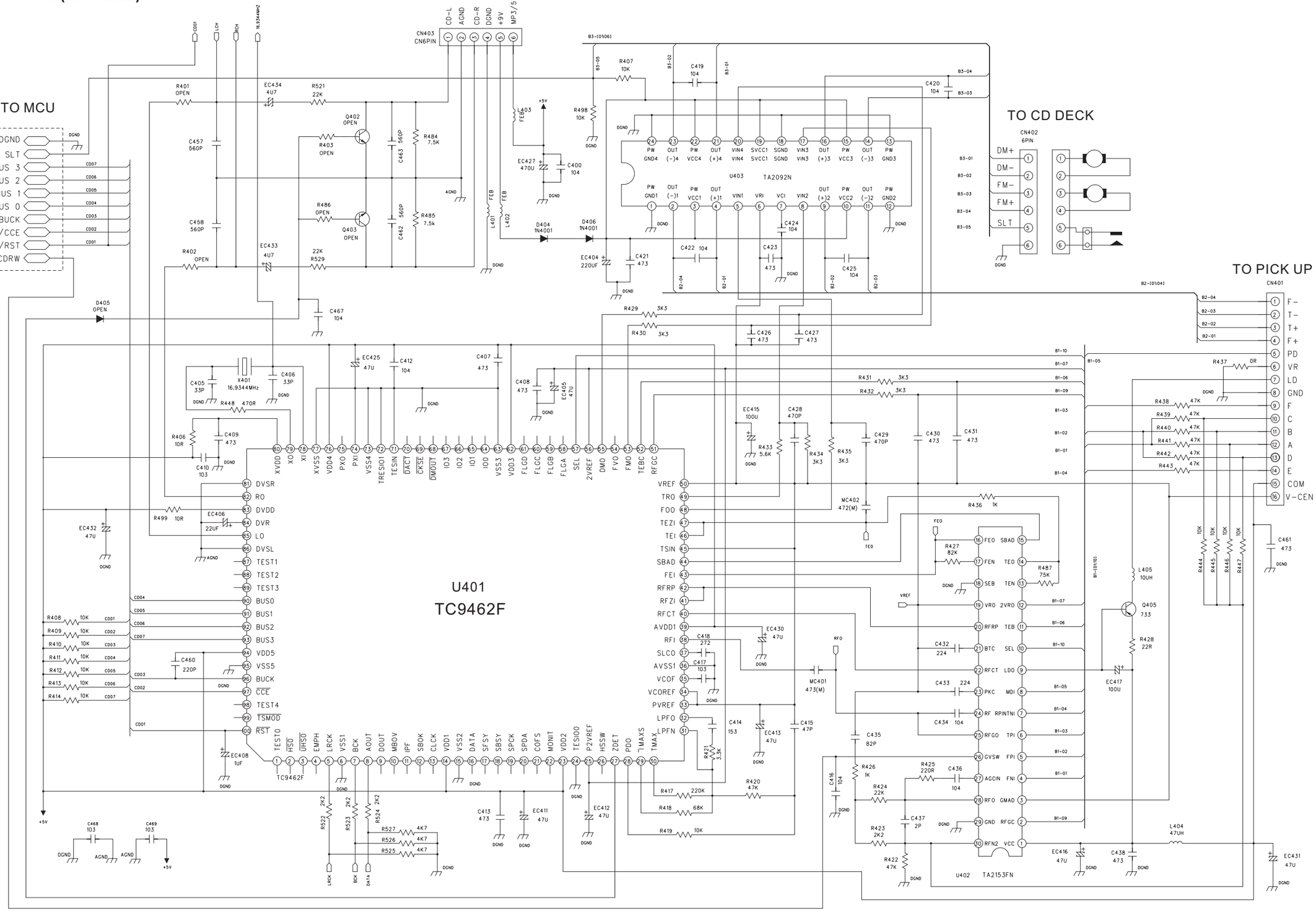
■ Main section (MX-KB22)



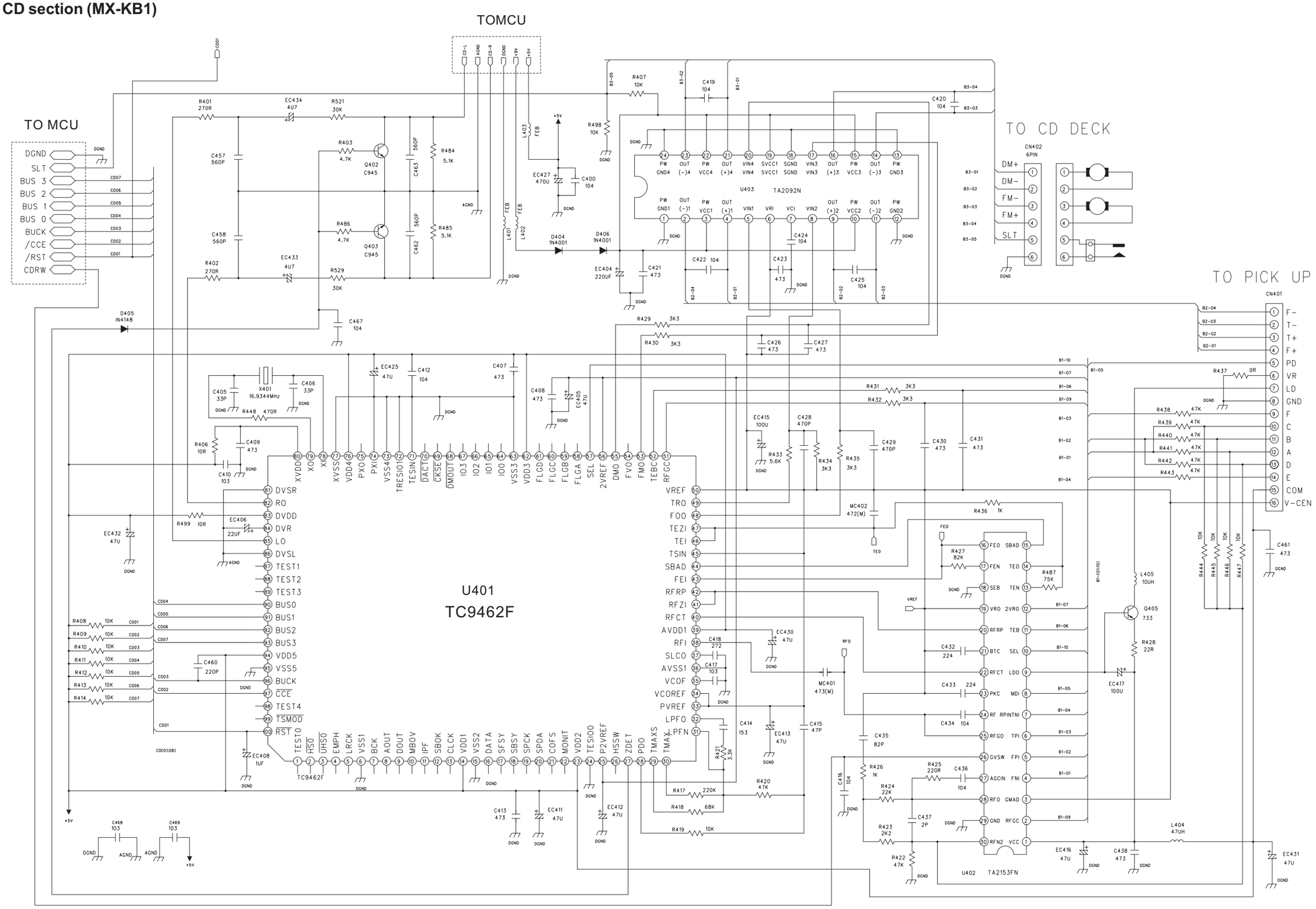
■ Main section (MX-KB1)



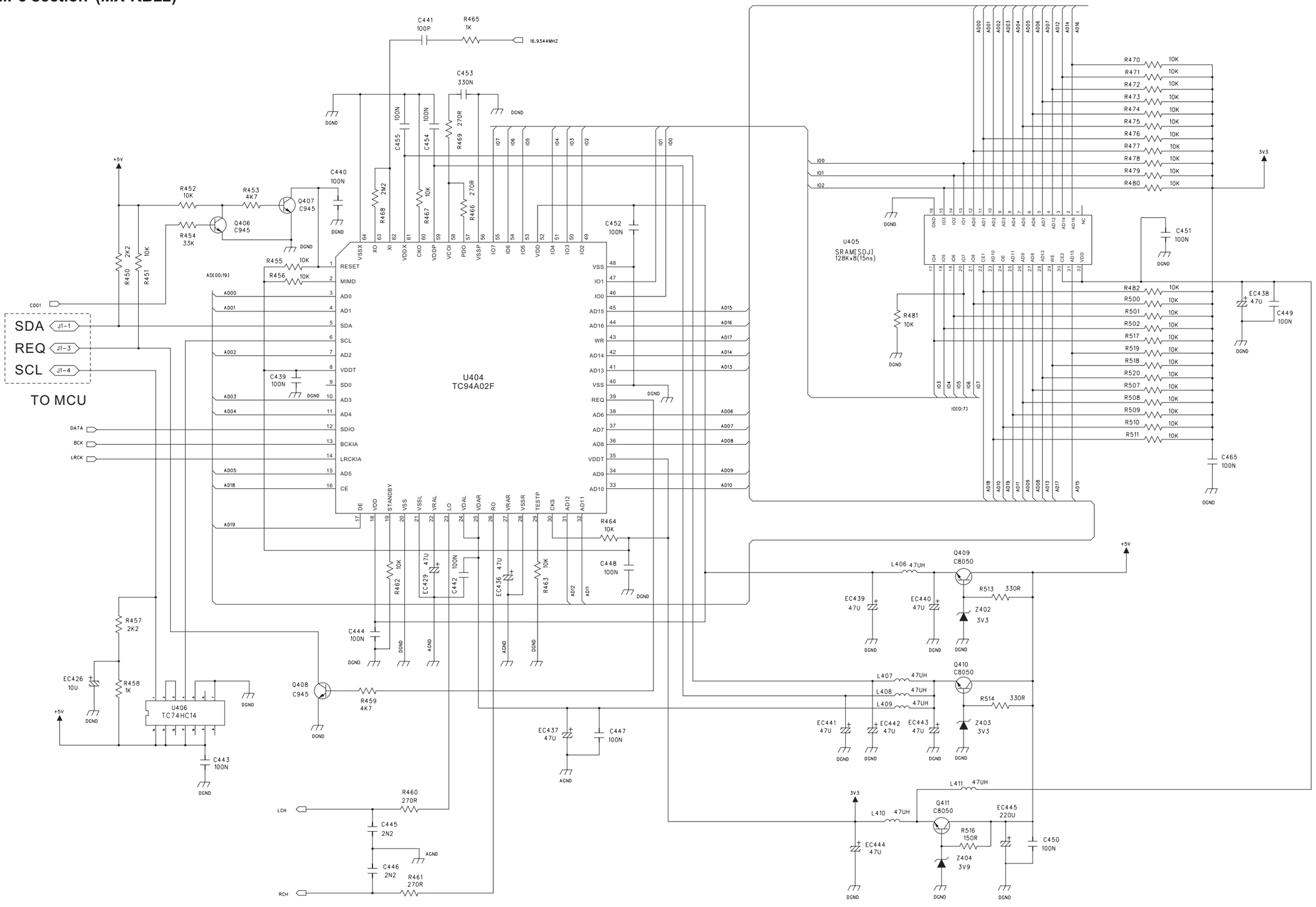
■ CD section (MX-KB22)



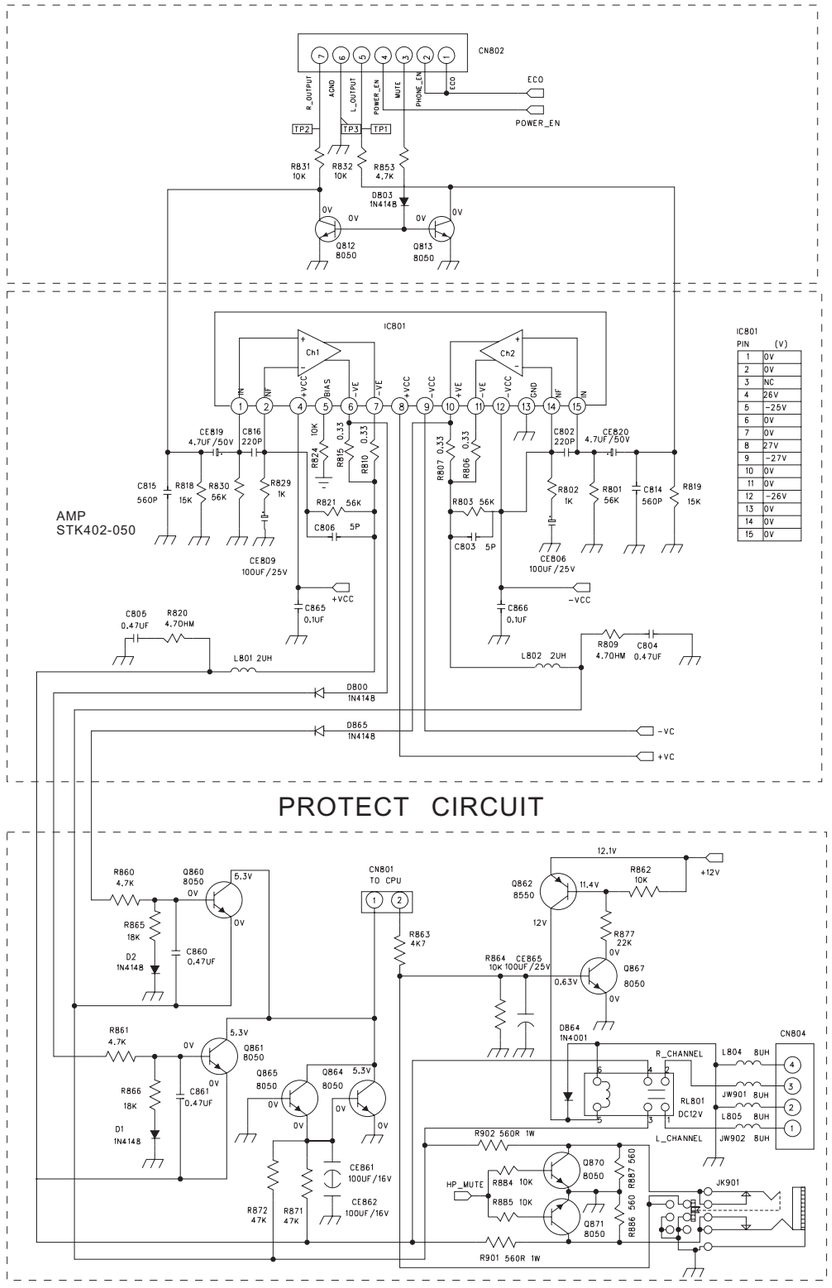
■ CD section (MX-KB1)



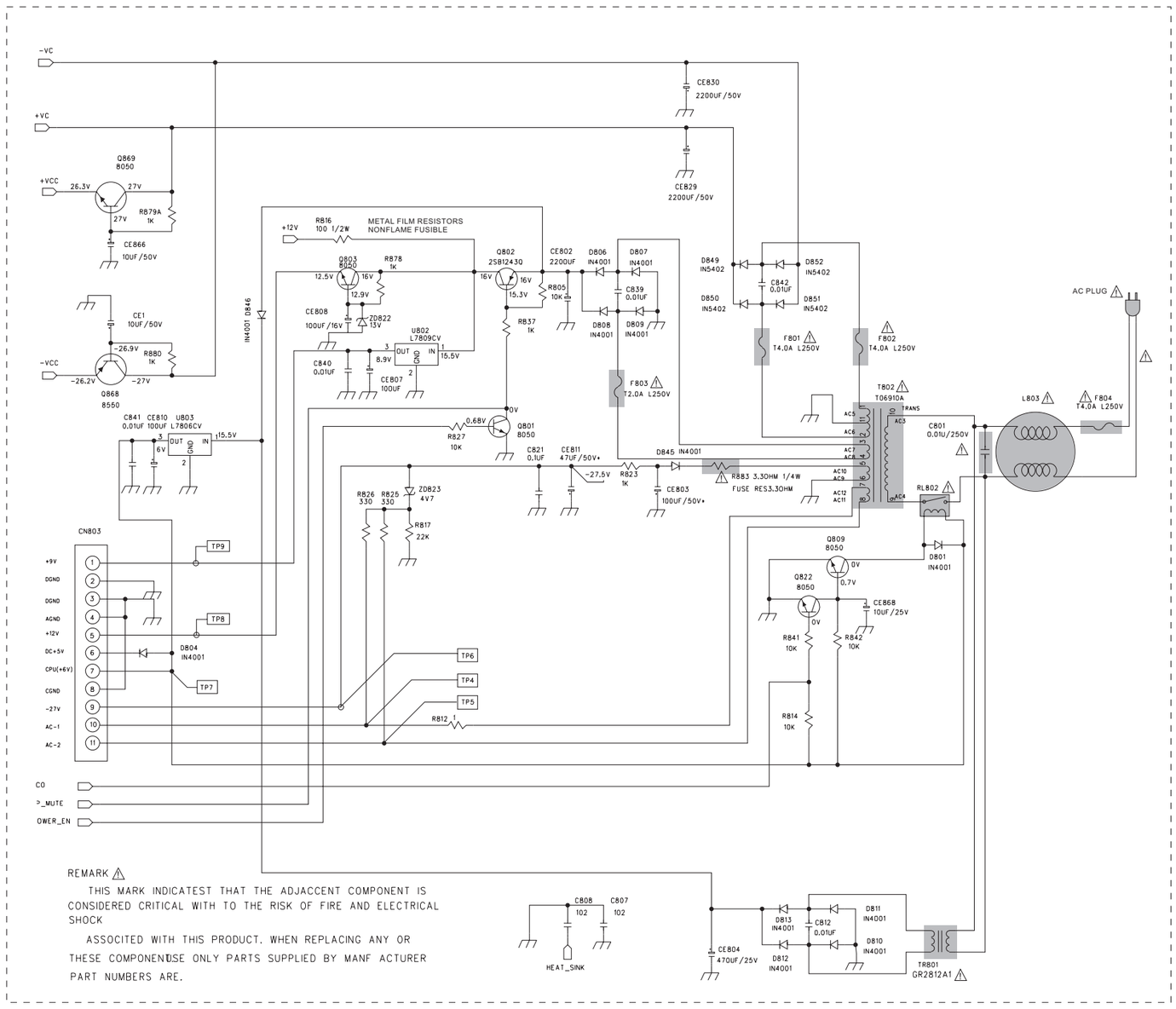
■ MP3 section (MX-KB22)



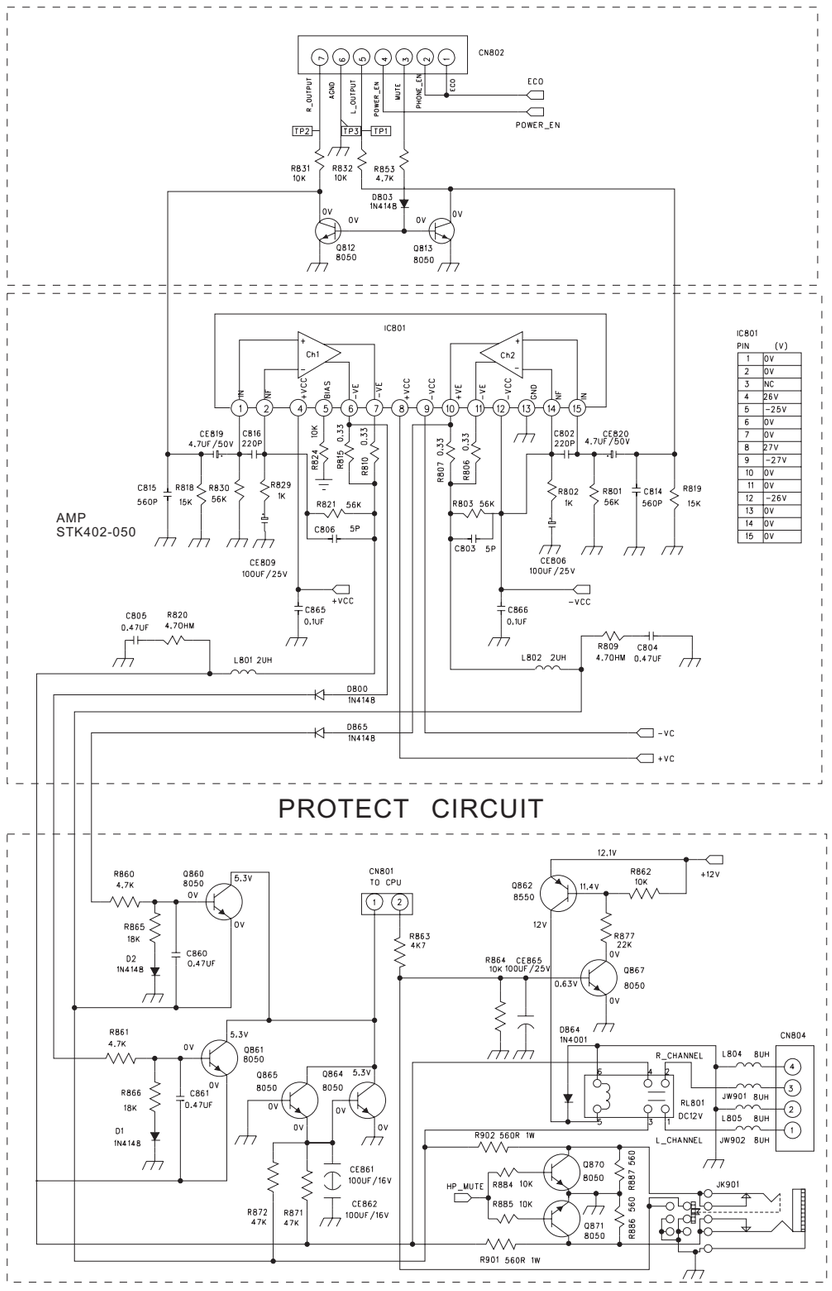
■ Power section (MX-KB22)



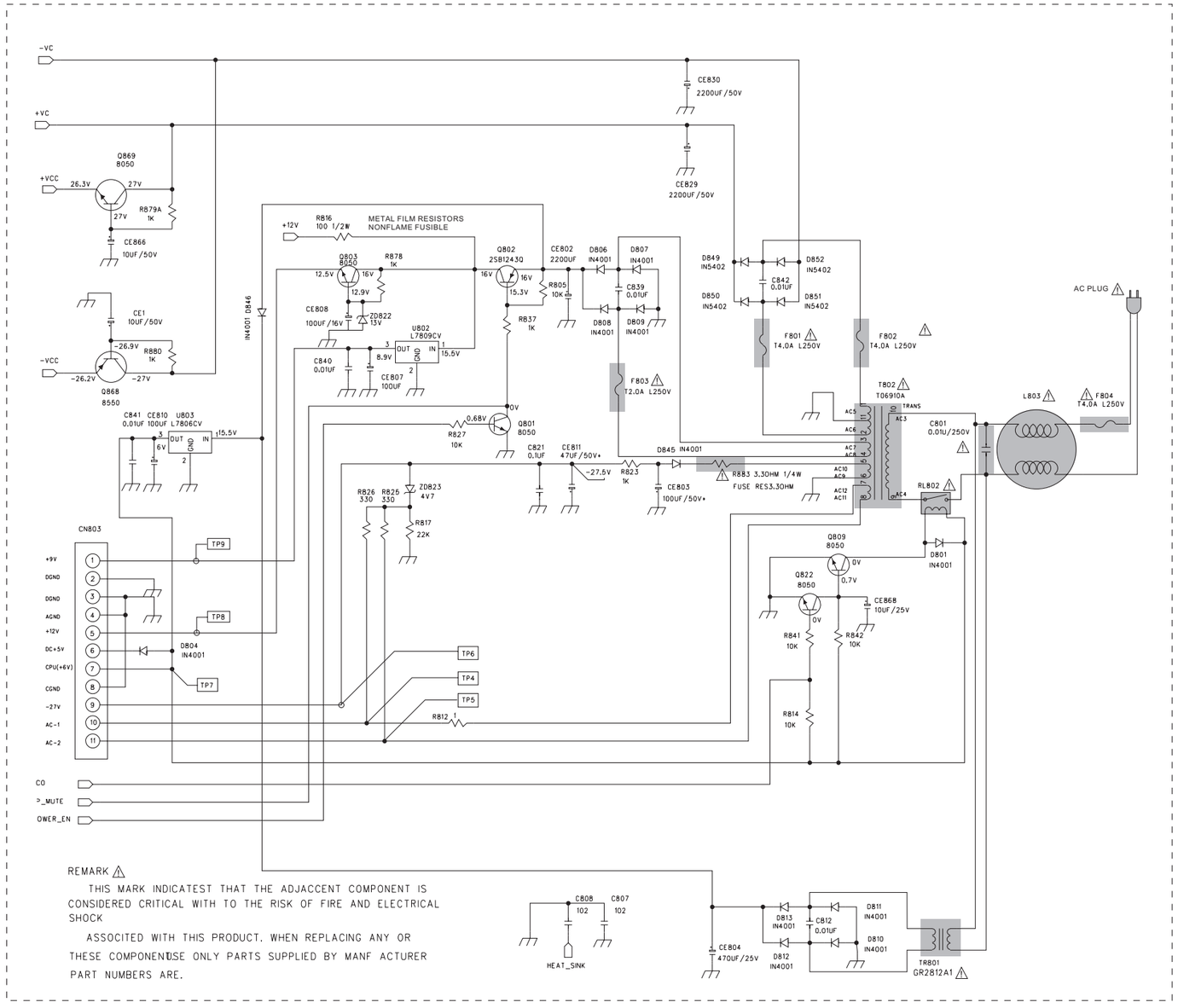
PROTECT CIRCUIT



■ Power section (MX-KB1)



PROTECT CIRCUIT

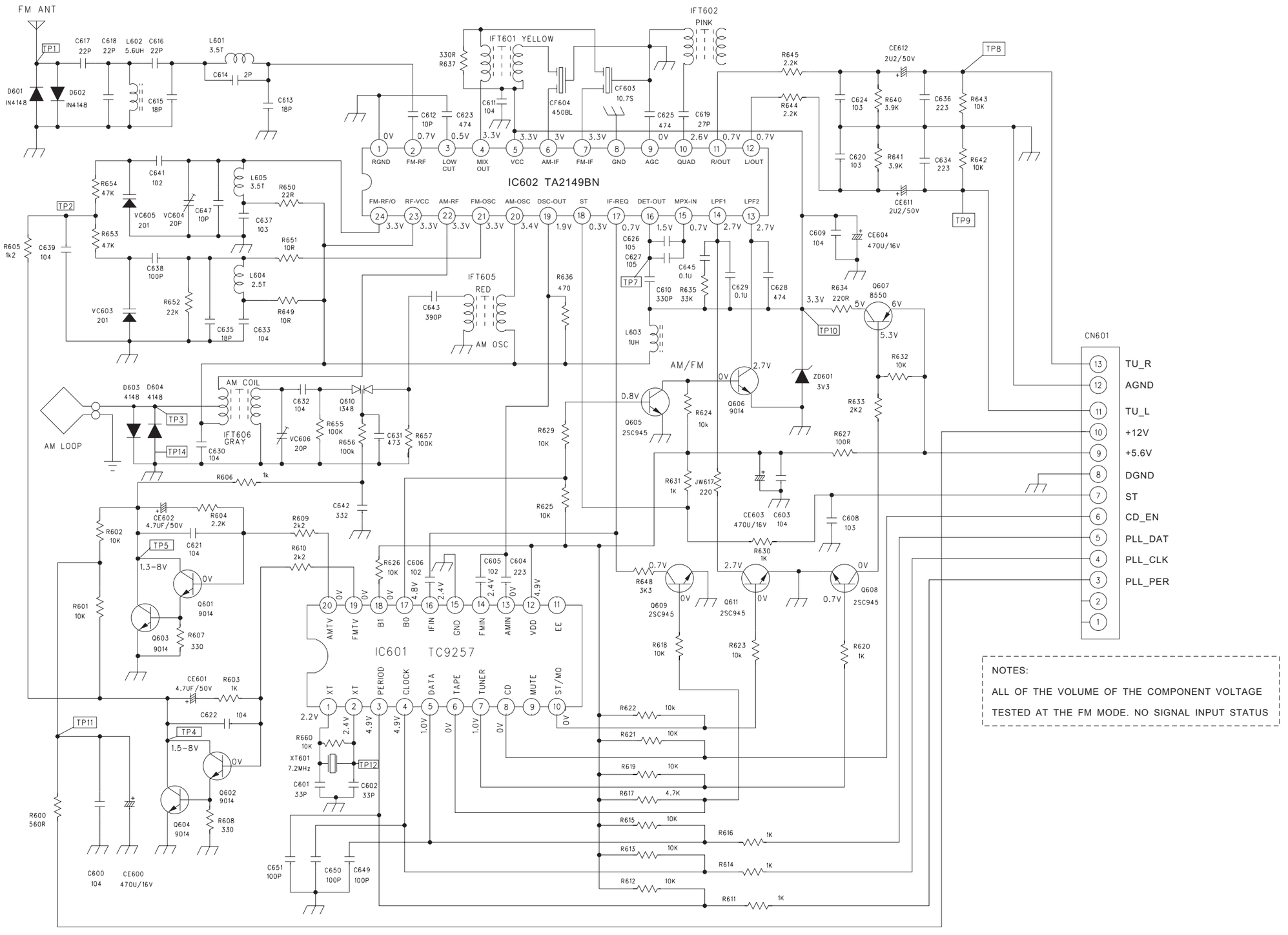


REMARK ⚠

THIS MARK INDICATEST THAT THE ADJACCENT COMPONENT IS CONSIDERED CRITICAL WITH TO THE RISK OF FIRE AND ELECTRICAL SHOCK

ASSOCITED WITH THIS PRODUCT. WHEN REPLACING ANY OR THESE COMPONENTUSE ONLY PARTS SUPPLIED BY MANF ACTURER PART NUMBERS ARE.

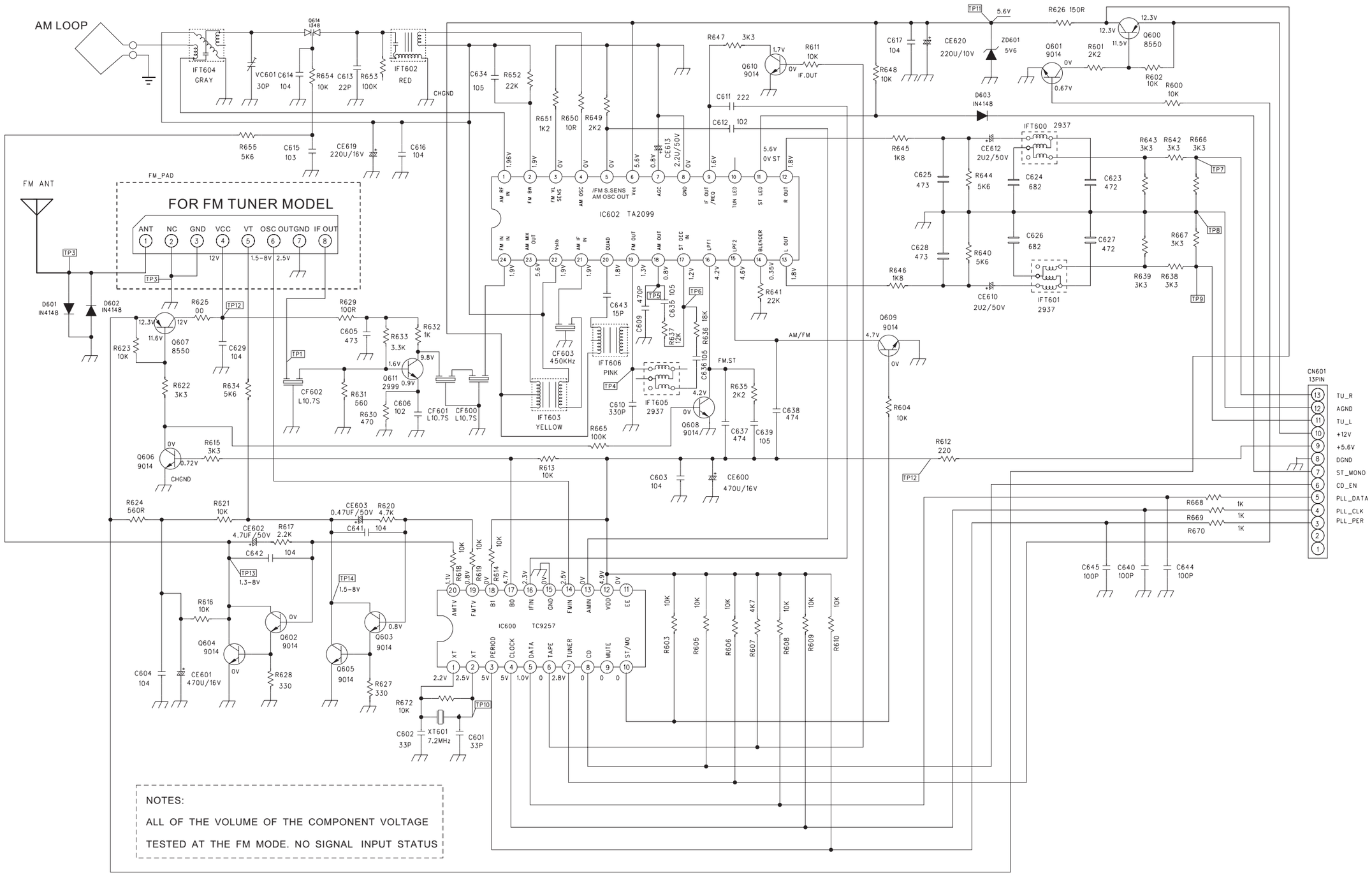
■ Tuner section (MX-KB22)



NOTES:

ALL OF THE VOLUME OF THE COMPONENT VOLTAGE TESTED AT THE FM MODE. NO SIGNAL INPUT STATUS

■ Tuner section (only MX-KB1 E/EN)

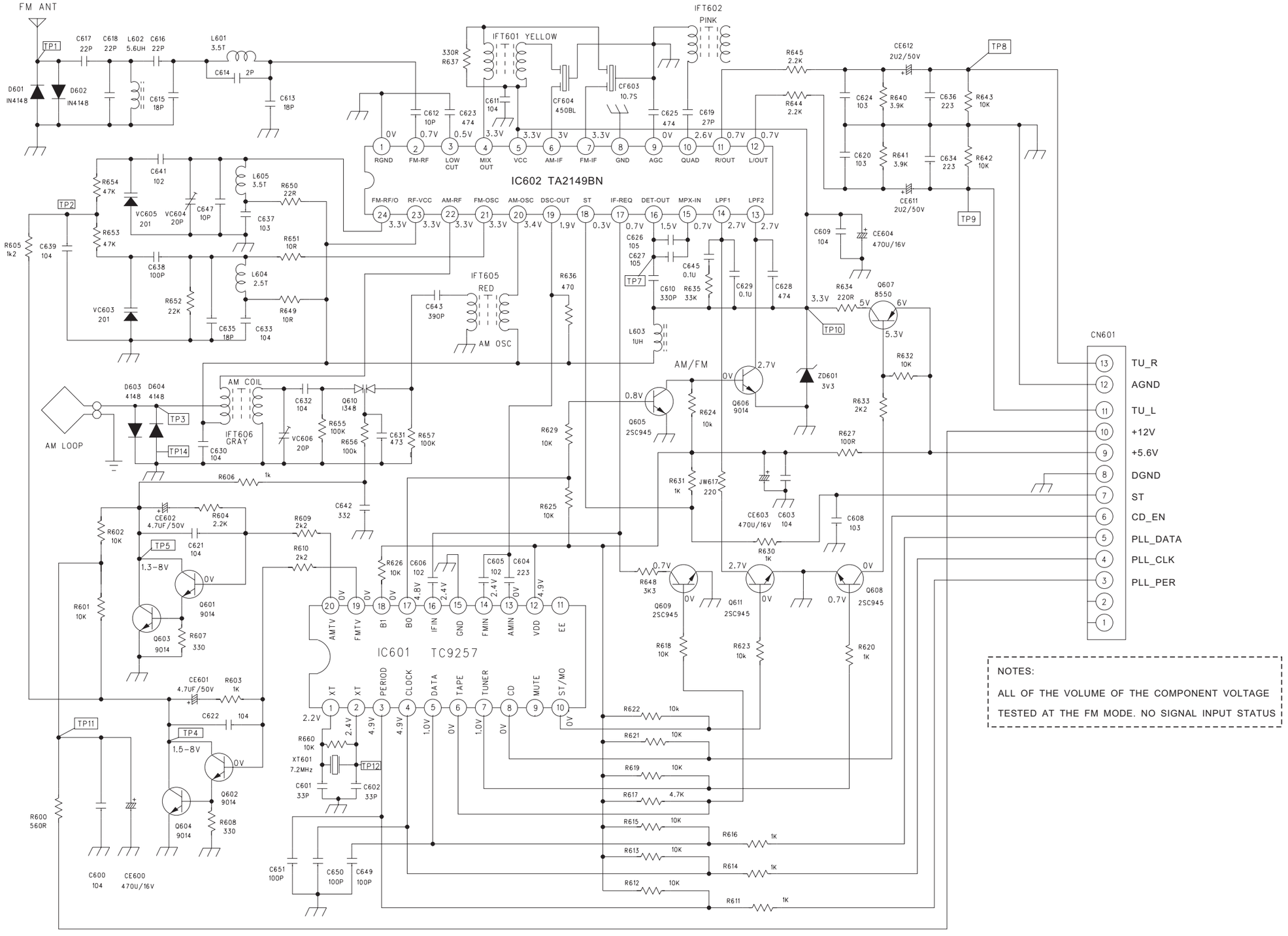


NOTES:

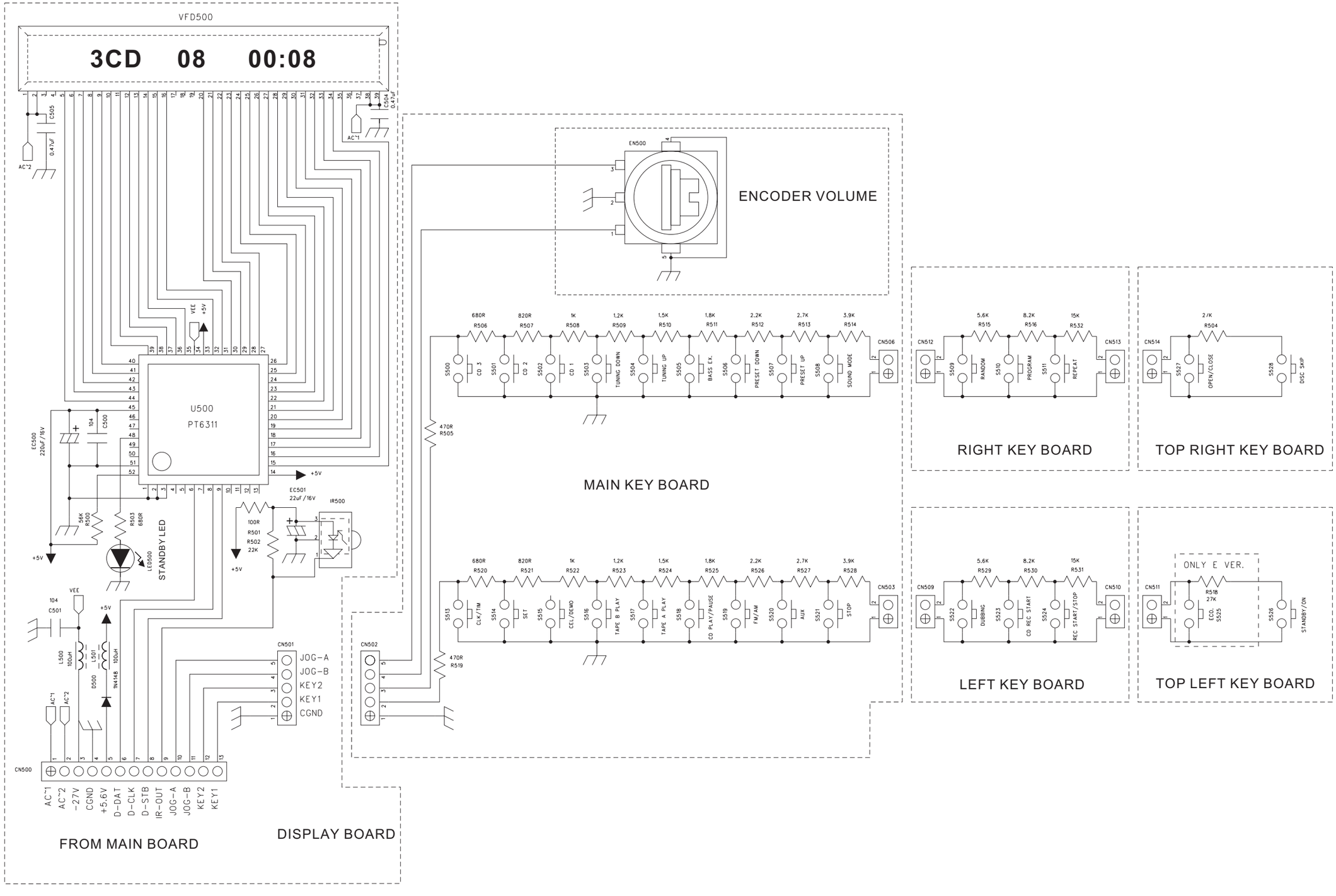
ALL OF THE VOLUME OF THE COMPONENT VOLTAGE

TESTED AT THE FM MODE. NO SIGNAL INPUT STATUS

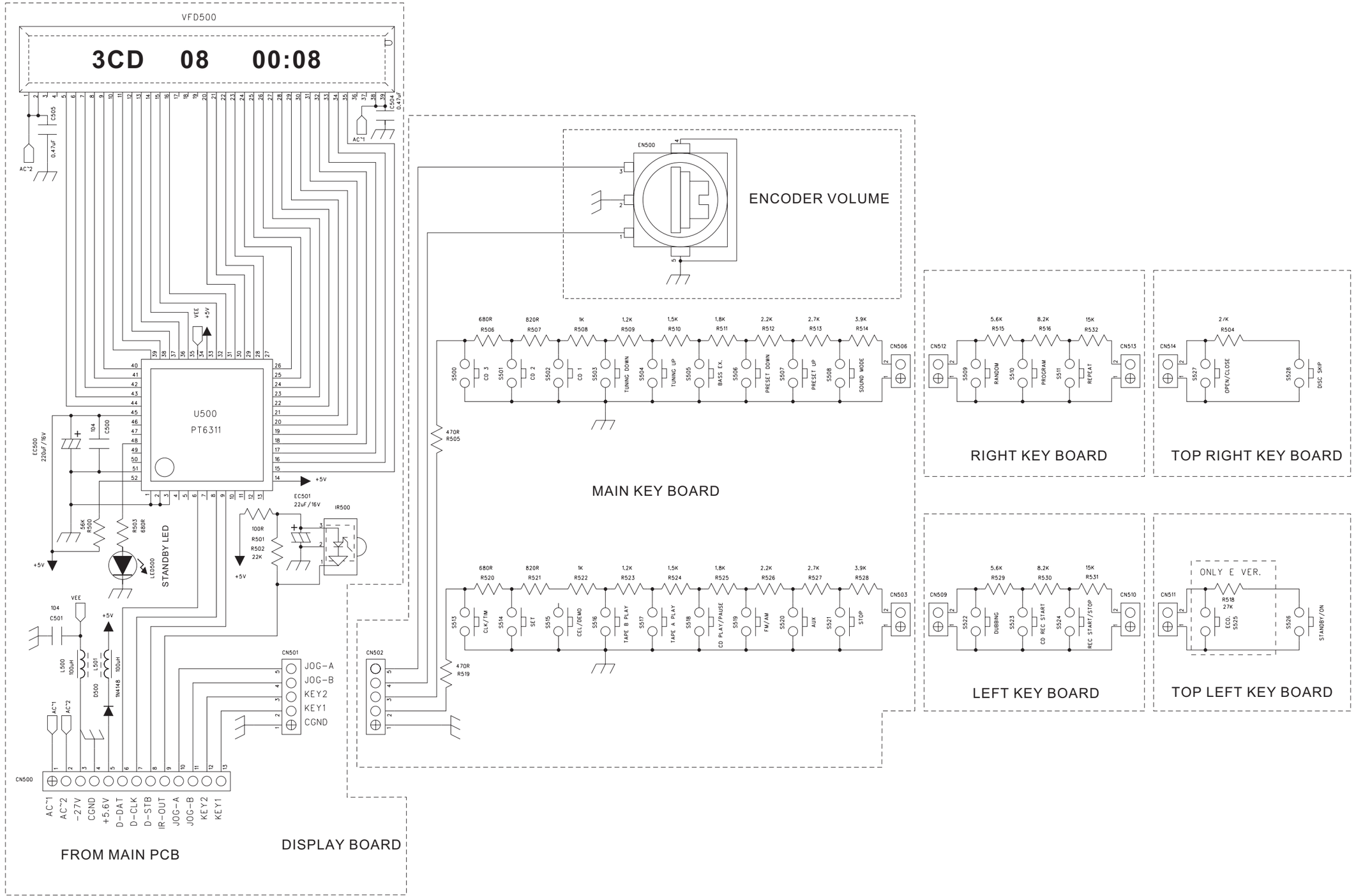
■ Tuner section (only MX-KB1 B/EV)



■ Display & Key section (MX-KB22)



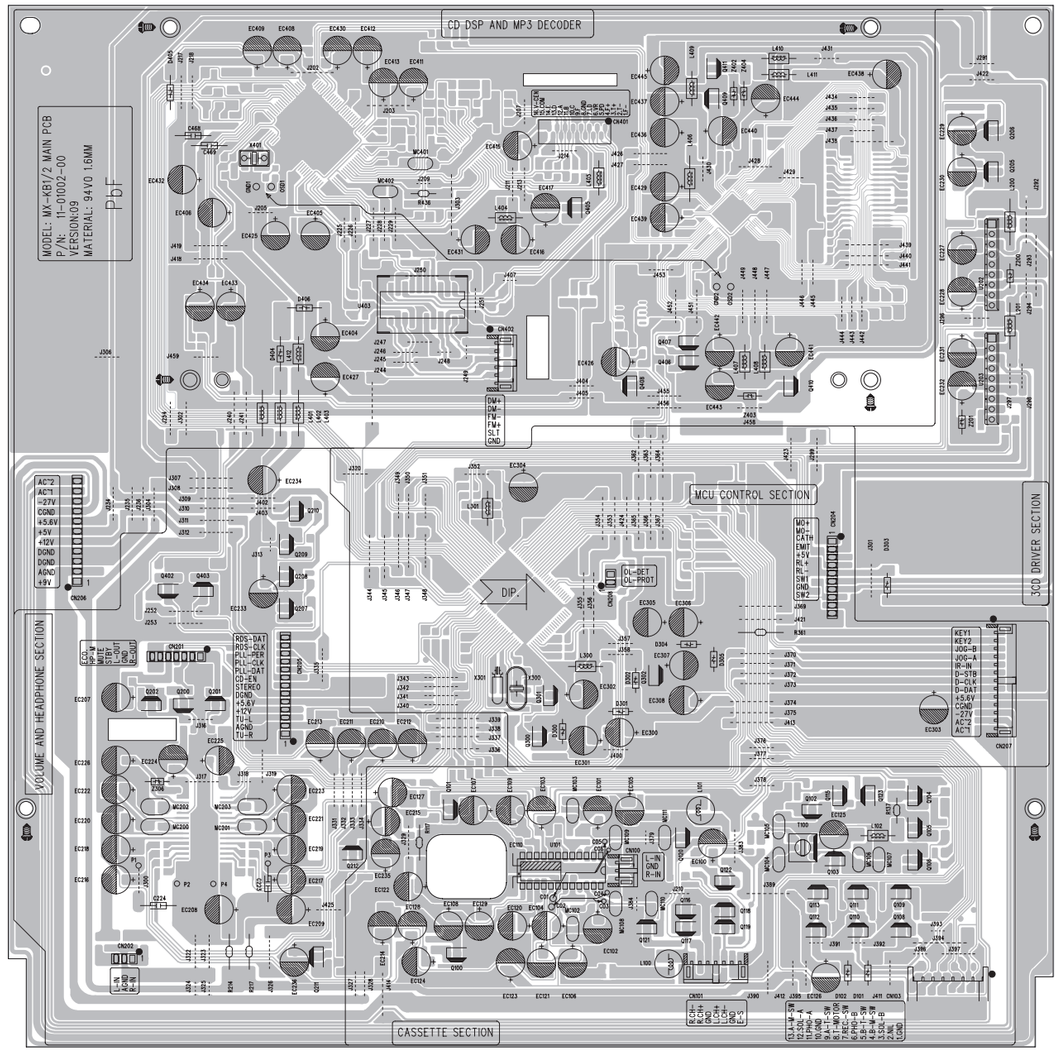
■ Display & key section (for MX-KB1)



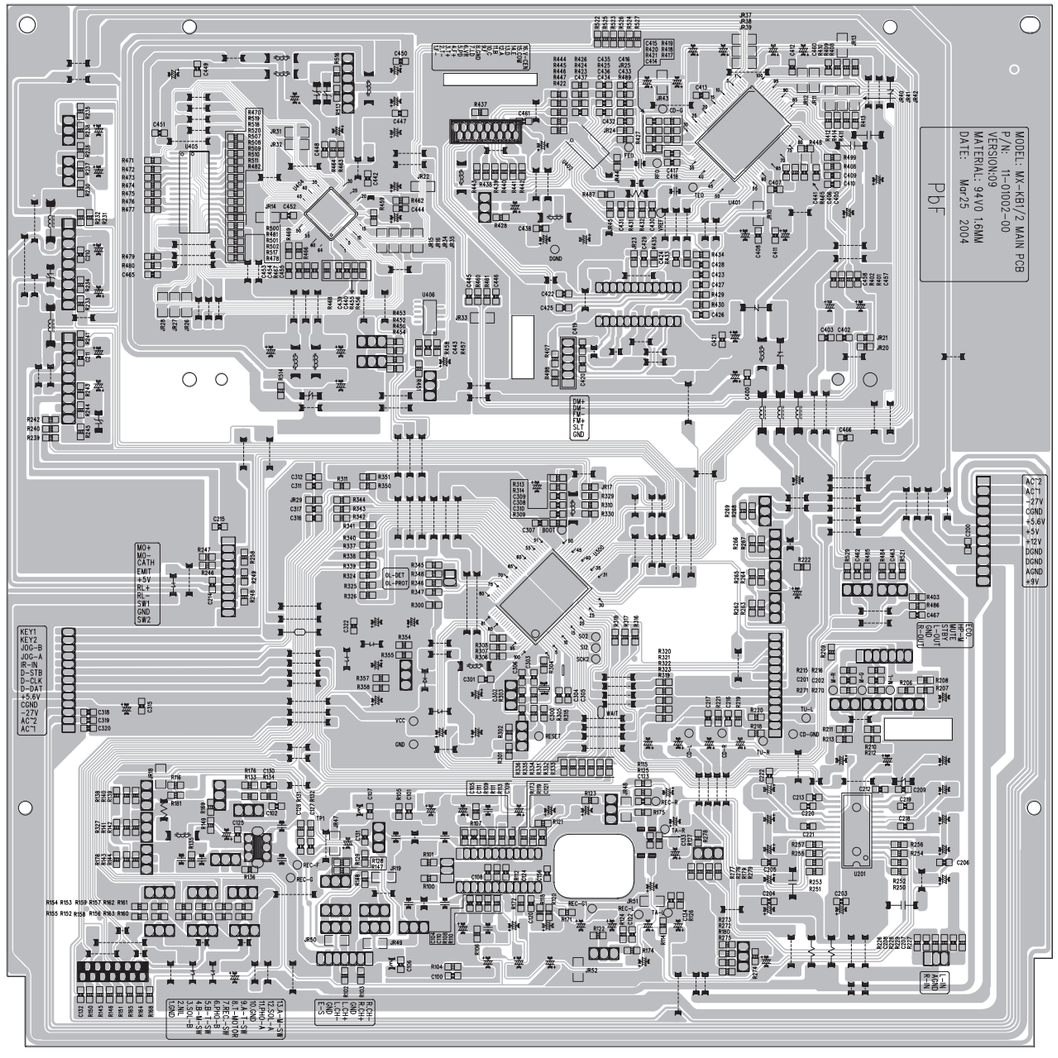
Printed circuit boards

■ Main board

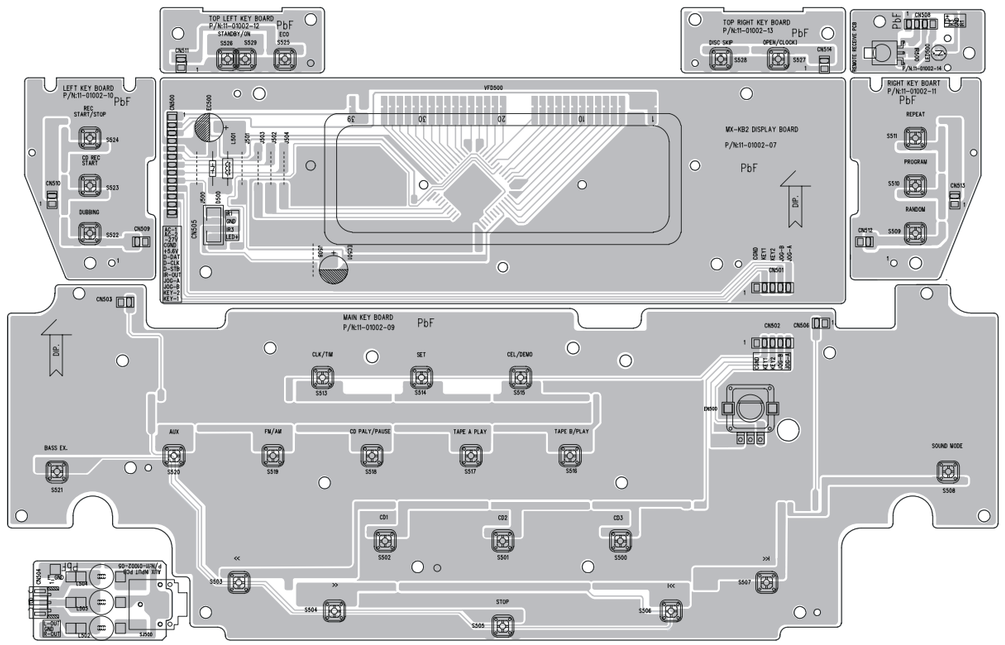
(forward side)



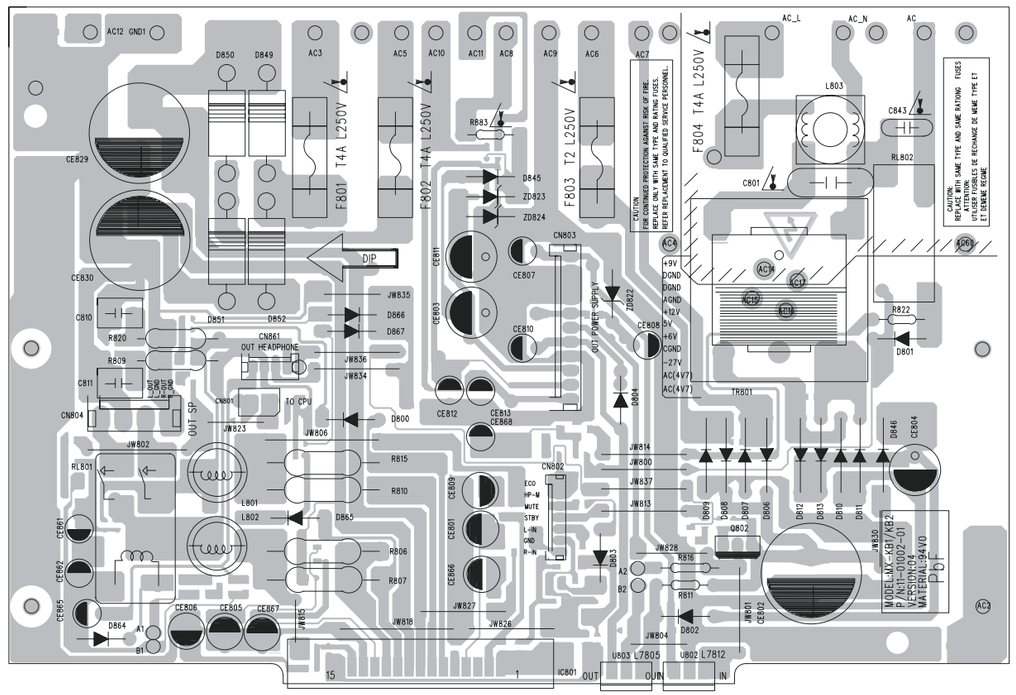
(reverse side)



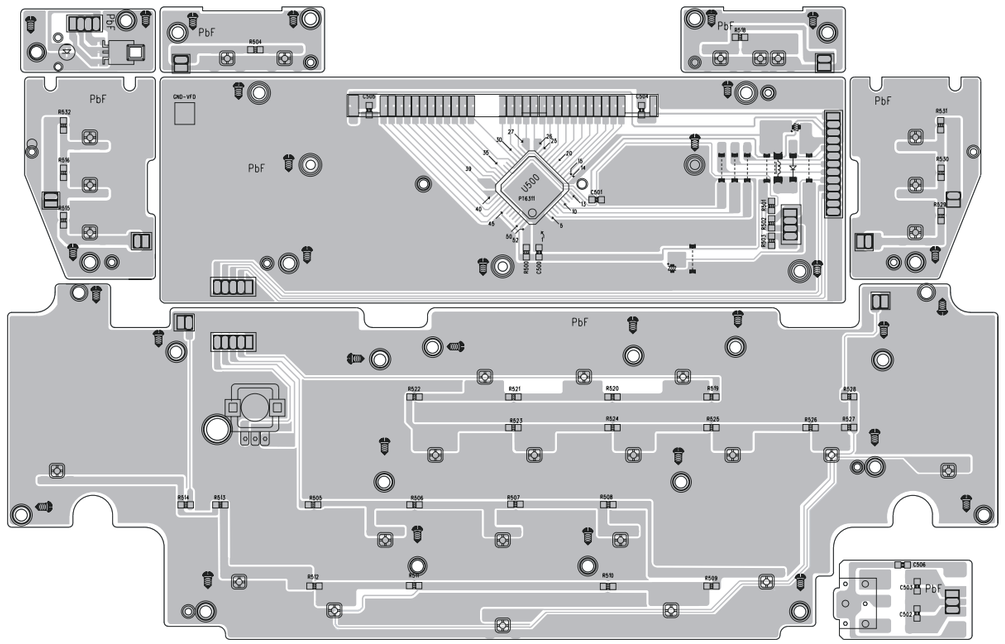
■ Display board (forward side)



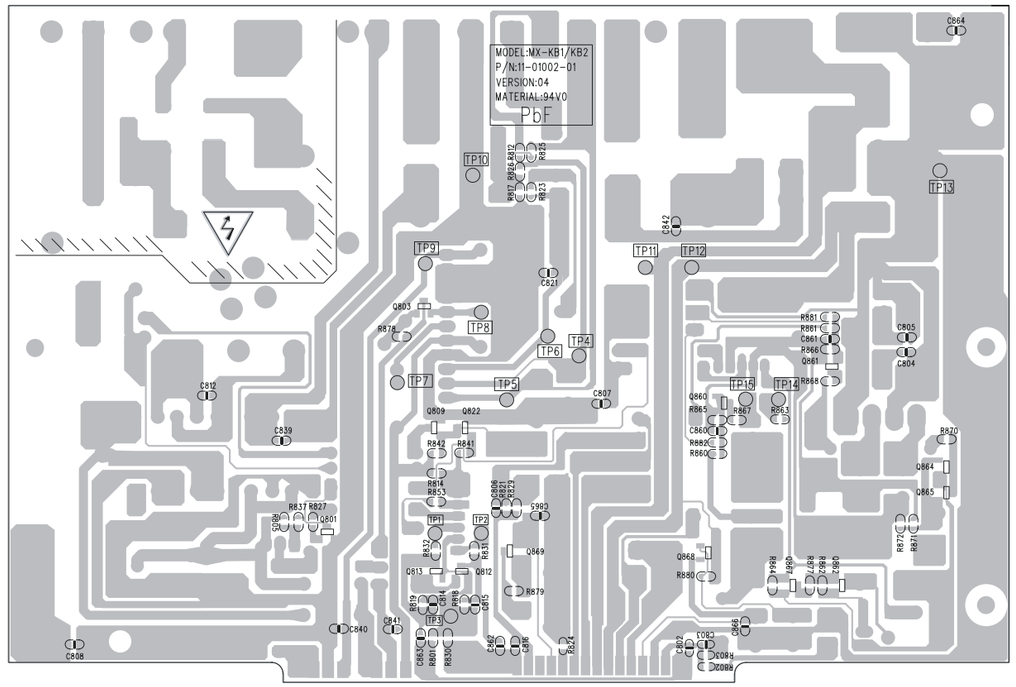
■ Power board (forward side)



(reverse side)

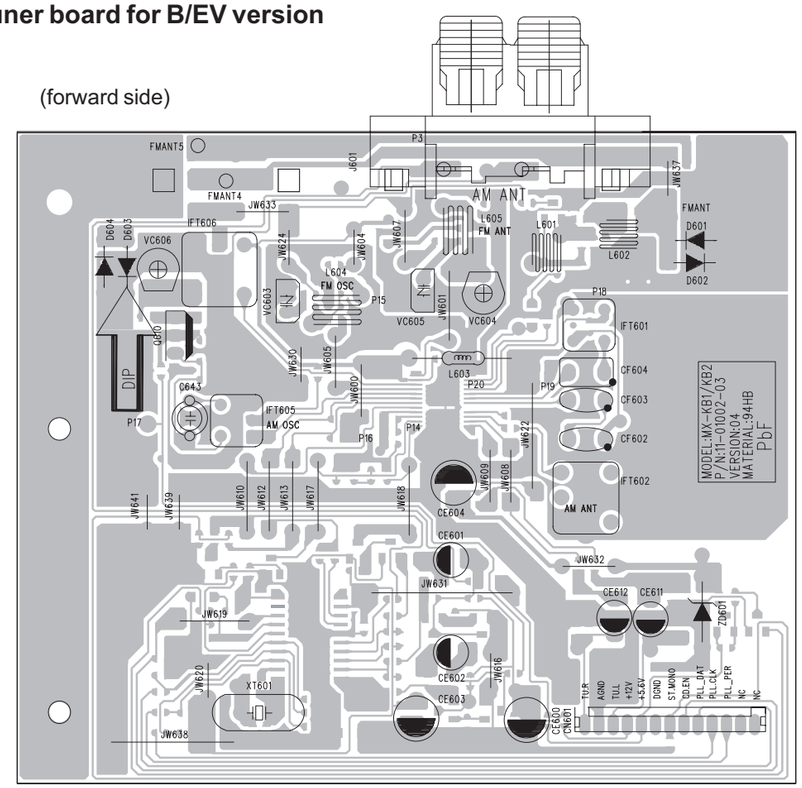


(reverse side)

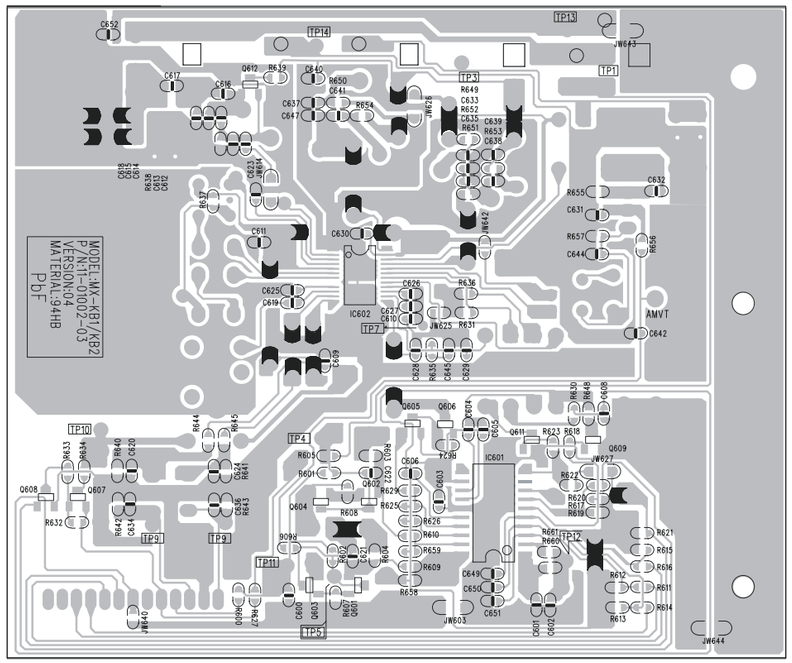


■ Tuner board for B/EV version

(forward side)

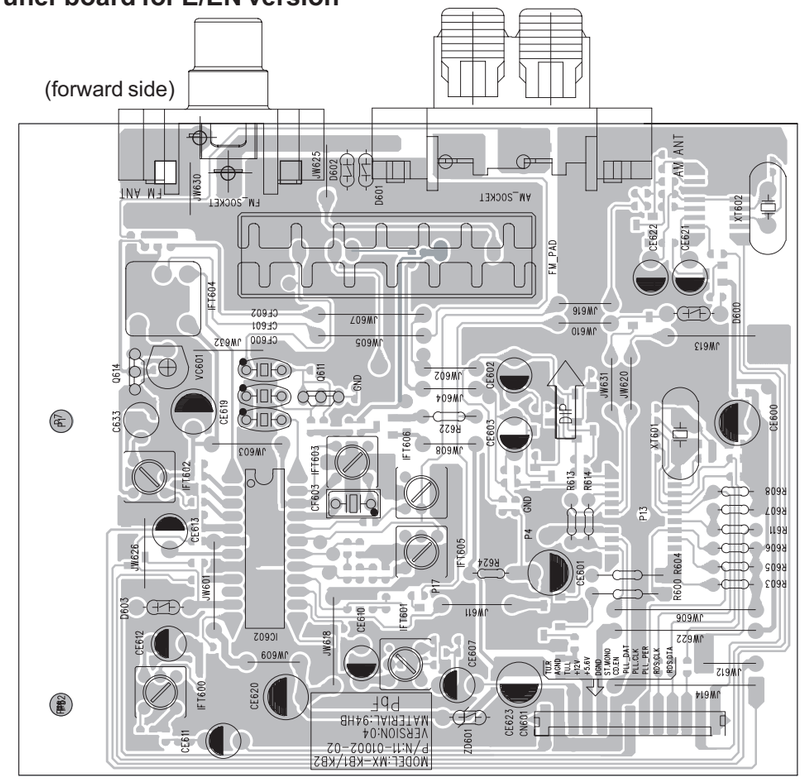


(reverse side)

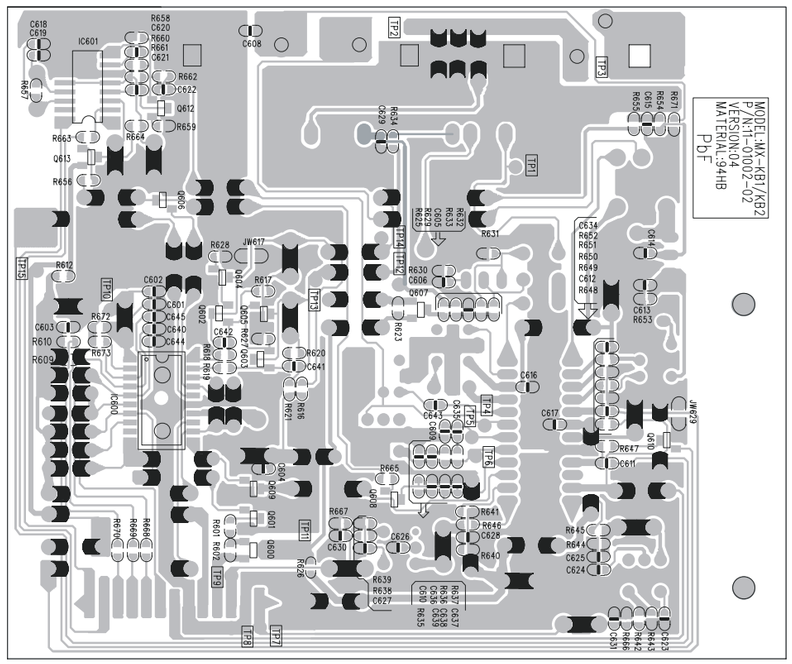


■ Tuner board for E/EN version

(forward side)

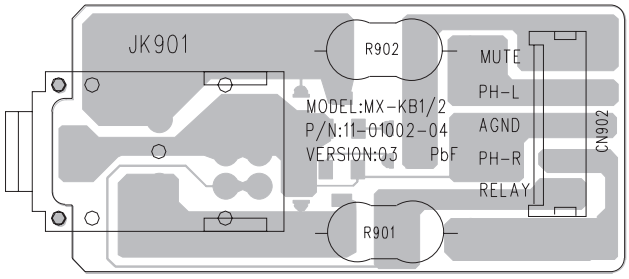


(reverse side)

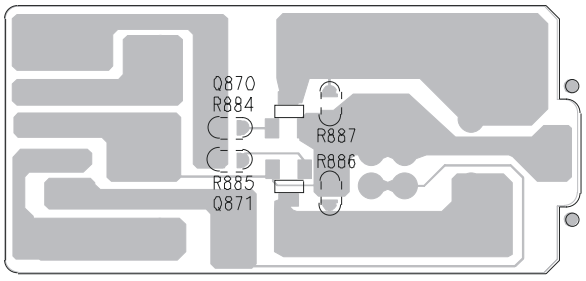


■ Headphone board

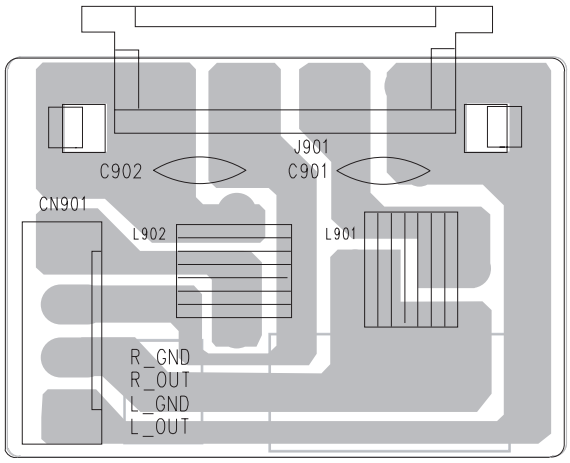
(forward side)



(reverse side)



■ Speaker jack board



JVC

Victor Company of Japan, Limited

AV & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB306SCH)

Printed in Japan
WPC

PARTS LIST

[MX-KB22]
[MX-KB1]

* All printed circuit boards and its assemblies are not available as service parts.

MX-KB22

Area suffix

EV ---------- Eastern Europe

MX-KB1

Area suffix

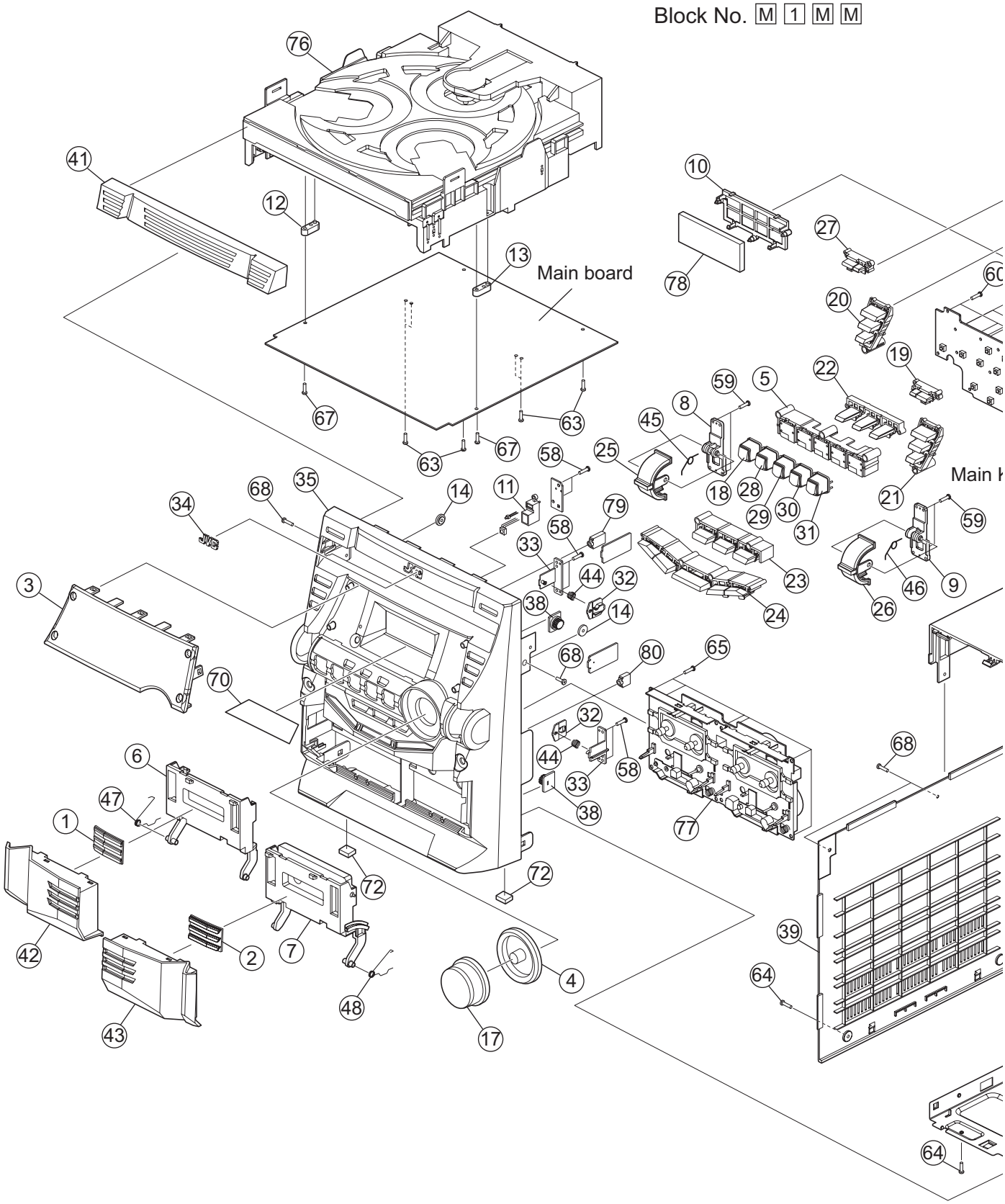
B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe
EV ---------- Eastern Europe

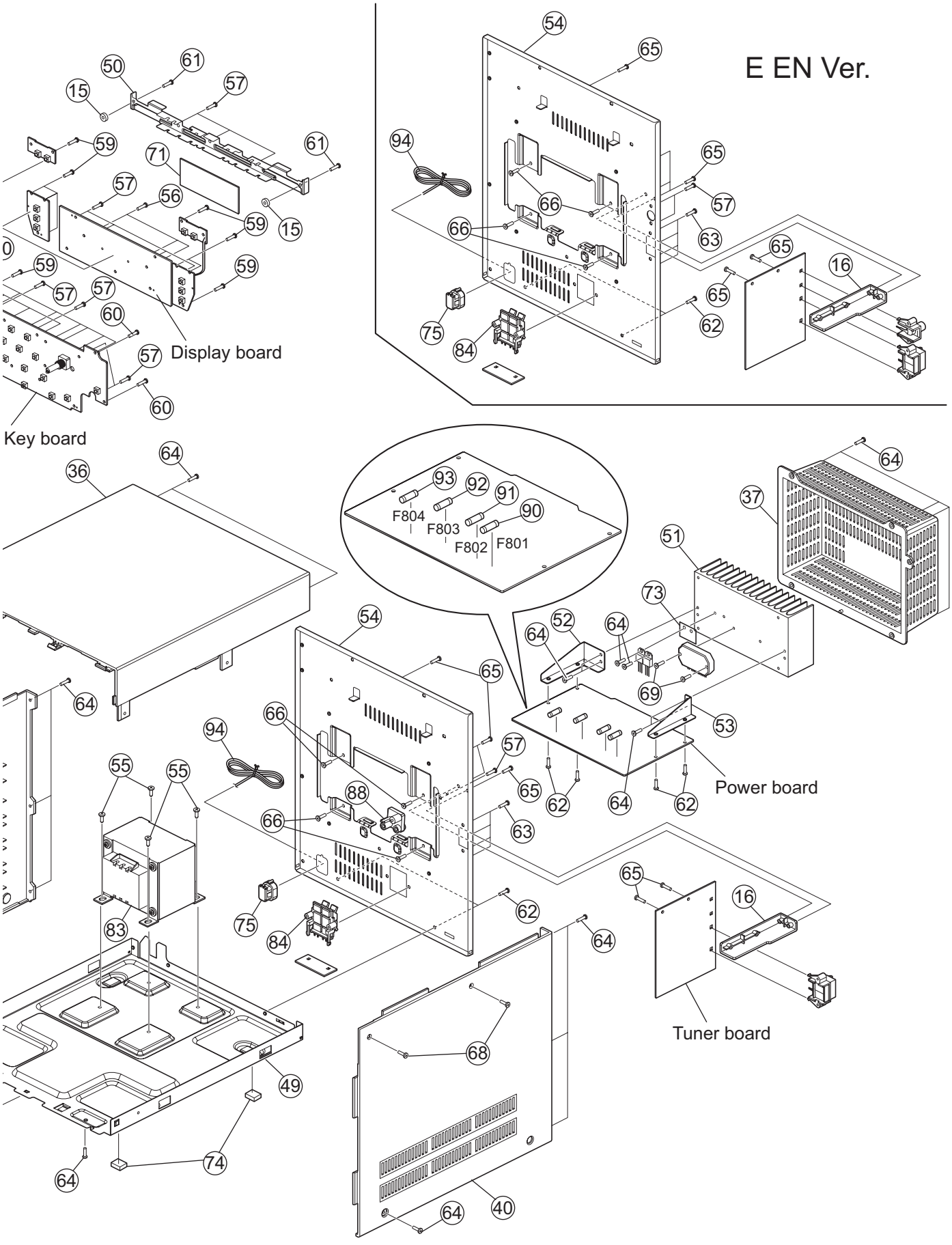
- Contents -

Exploded view of general assembly and parts list (Block No.M1) ---------- 3- 2
Electrical parts list (Block No.01~05) ---------- 3- 6
Packing materials and accessories parts list (Block No.M3,M4) ---------- 3-12

Exploded view of general assembly and parts list

Block No. M 1 M M




E EN Ver.
Display board
Key board
Power board
Tuner board
F804
F803
F802
F801

General Assembly

Block No. [M][1][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	OW43-01001-03	CASS LENS L		
	2	OW43-01001-04	CASS LENS R		
	3	OW43-01001-02	DISPLAY WINDOW		KB1
	3	OW43-01001-07	DISPLAY WINDOW		KB22
	4	OW48-01001-00	VOLUME RING		
	5	OW48-01001-01	KNOB BKT	FUNCTION	
	6	OW48-01001-02	CASS BRACKET L		KB1
	6	OW48-01001-15	CASS BRACKET L		KB22
	7	OW48-01001-03	CASS BRACKET R		KB1
	7	OW48-01001-16	CASS BRACKET R		KB22
	8	OW48-01001-04	BASS KNOB LEVER		
	9	OW48-01001-05	SOUND KNOB LEVER		
	10	OW48-01001-06	VFD BRACKET		
	11	OW48-01001-07	REMOTE BRACKET		
	12	OW48-01001-08	PCB BRACKET L	MAIN	
	13	OW48-01001-09	PCB BRACKET R	MAIN	
	14	OW48-01001-10	SUPPORT BLOCK	(x2)	
	15	OW48-01001-11	SUPPORT WASHER	(x2)	
	16	OW48-01001-12	PCB BRACKET	TUNER	
	17	OW51-01001-00	VOLUME KNOB		KB1
	17	OW51-01001-05	VOLUME KNOB		KB22
	18	OW53-01001-00	AUX KNOB		
	19	OW53-01001-01	OPEN CLOSE KNOB		KB1
	19	OW53-01001-26	OPEN CLOSE KNOB		KB22
	20	OW53-01001-02	RECORD KNOB		KB1
	20	OW53-01001-27	RECORD KNOB		KB22
	21	OW53-01001-03	REPEAT KNOB		KB1
	21	OW53-01001-28	REPEAT KNOB		KB22
	22	OW53-01001-04	CLOCK KNOB		KB1
	22	OW53-01001-29	CLOCK KNOB		KB22
	23	OW53-01001-05	CD KNOB		KB1
	23	OW53-01001-30	CD KNOB		KB22
	24	OW53-01001-06	STOP KNOB		KB1
	24	OW53-01001-31	STOP KNOB		KB22
	25	OW53-01001-07	BASS KNOB		
	26	OW53-01001-08	SOUND KNOB		
	27	OW53-01001-10	ECO KNOB		KB1
	27	OW53-01001-33	ECO KNOB		KB22
	28	OW53-01001-11	FM/AM KNOB		
	29	OW53-01001-12	CD PLAY KNOB		
	30	OW53-01001-13	TAPE A KNOB		
	31	OW53-01001-14	TAPE B KNOB		
	32	OW55-00005-80	LATCH	(x2)	
	33	OW55-00005-81	LATCH HOLDER	(x2)	
	34	OW55-01001-00	JVC BADGE		
	35	OW60-01001-00	FRONT PANEL		KB1
	35	OW60-01001-05	FRONT PANEL		KB22
	36	OW60-01001-01	TOP CABINET		KB1
	36	OW60-01001-04	TOP CABINET		KB22
	37	OW61-01001-00	HEAT SINK COVER		
	38	OW63-00303-80	DAMPER GEAR	B40GG FOR CASS DOOR(x2)	
	39	OW65-01001-00	SIDE PANEL L		KB1
	39	OW65-01001-03	SIDE PANEL L		KB22
	40	OW65-01001-01	SIDE PANEL R		KB1
	40	OW65-01001-04	SIDE PANEL R		KB22
	41	OW66-01001-00	3CD DOOR		KB1
	41	OW66-01001-03	3CD DOOR		KB22
	42	OW66-01001-01	CASS DOOR L		KB1
	42	OW66-01001-04	CASS DOOR L		KB22
	43	OW66-01001-02	CASS DOOR R		KB1
	43	OW66-01001-05	CASS DOOR R		KB22
	44	OW36-00005-80	CASS SPRING	(x2)	
	45	OW36-01001-00	SPRING	BASS KNOB	
	46	OW36-01001-01	SPRING	SOUND KNOB	
	47	OW36-01001-02	SPRING	CASS DOOR L	
	48	OW36-01001-03	SPRING	CASS DOOR R	
	49	OW39-01001-01	BOTTOM		
	50	OW39-01001-03	SUPPORT PLATE	FOR DISPLAY & KEY PCB	
	51	OW39-01001-04	HEAT SINK		
	52	OW39-01001-05	HEAT SINK BKT L		
	53	OW39-01001-06	HEAT SINK BKT R		
	54	OW39-01001-15	BACK PLATE		B
	54	OW39-01001-02	BACK PLATE		E,EN
	54	OW39-01001-16	BACK PLATE		KB1_EV

⚠	Symbol No.	Part No.	Part Name	Description	Local
	54	OW39-01001-12	BACK PLATE		KB22
	55	OW40-84006-53	SCREW	(x4)	
	56	OW40-92008-01	SCREW	(x3)	
	57	OW40-92608-11	SCREW	(x13)	E,EN
	57	OW40-92608-11	SCREW	(x12)	B,EV
	58	OW40-92610-01	SCREW	(x6)	
	59	OW40-92612-01	SCREW	(x19)	
	60	OW40-92615-01	SCREW	(x6)	
	61	OW40-92616-01	SCREW	(x2)	
	62	OW40-93006-51	SCREW	(x6)	
	63	OW40-93008-11	SCREW	(x10)	
	64	OW40-93008-51	SCREW	(x22)	
	65	OW40-93010-01	SCREW	(x12)	
	66	OW40-93010-51	SCREW	(x4)	
	67	OW40-93015-01	SCREW	(x2)	
	68	OW40-93015-02	SCREW	(x6)	
	69	OW40-93015-51	SCREW	(x2)	
	70	OW43-01001-00	MIRROR SHEET		
	71	OW68-91002-00	SHIELD PAPER		
	72	OW81-01001-00	RUBBER FOOT	(x2)	
	73	OW81-01001-01	MICA SHEET		
	74	OW81-01001-02	RUBBER FOOT	(x2)	
⚠	75	OW84-10002-80	STRAIN RELIEF		
	76	OW98-01001-00	CD CHANGER	CMS-FR3BN	
	77	OW94-01002-00	CASSETTE MECHA	CWM43FF44	
	78	OW91-01002-00	VFD DISPLAY		
	79	OW12-21235-80	HEADPHONE JACK		
	80	OW12-10035-12	PHONE JACK		
⚠	83	OW15-01002-02	POWER TRANS	EI-76	
	84	OW12-00006-81	SPEAKER TERMINAL		
	88	OW48-01001-13	FM ANT BKT		B,EV
⚠	90	OW33-57402-02	FUSE	F801 4A 250V	KB1
⚠	90	OW33-57402-03W	FUSE	F801 4A 250V	KB22
⚠	91	OW33-57402-02	FUSE	F802 4A 250V	KB1
⚠	91	OW33-57402-03W	FUSE	F802 4A 250V	KB22
⚠	92	OW33-57202-03W	FUSE	F803 2A 250V	
⚠	93	OW33-57402-02	FUSE	F804 4A 250V	KB1
⚠	93	OW33-57402-03W	FUSE	F804 4A 250V	KB22
⚠	94	OW30-00300-02L	AC CORD		B
⚠	94	OW30-00300-01L	AC CORD		E,EN,EV

Electrical parts list

Main board

Block No. [0][1]

⚠ Symbol No.	Part No.	Part Name	Description	Local
U101	TA8189N	IC	OW03-08189-80	
U201	TC9422	IC	OW03-09422-80	
U202	TA7291S	IC	OW03-07291-80	
U203	TA7291S	IC	OW03-07291-80	
U300	87EP26F-4K76	IC	OW03-87261-80	
U401	TC9462F	IC	OW03-09462-80	
U402	TA2153FN	IC	OW03-02153-80	
U403	TA2092N	IC	OW03-02092-80	
U404	TC94A02F	IC	OW03-09402-80	KB22
U405	AS7C31024-15JC	IC	OW03-31024-80	KB22
U406	TC74HC14	IC	OW03-07404-80	KB22
Q100	OWDTC314TS	TRANSISTOR	OW01-00314-20	
Q101	OWDTC314TS	TRANSISTOR	OW01-00314-20	
Q102	OW2SC945-P	TRANSISTOR	OW01-00945-80	
Q103	OW2SC945-P	TRANSISTOR	OW01-00945-80	
Q104	OW2SA733PNP	TRANSISTOR	OW01-00733-80	
Q105	OW2SC945-P	TRANSISTOR	OW01-00945-80	
Q106	OW2SC945-P	TRANSISTOR	OW01-00945-80	
Q108	OWKSA928A-Y	TRANSISTOR	OW01-00928-80B	
Q109	OW2SC945-P	TRANSISTOR	OW01-00945-80	
Q110	OWKSA928A-Y	TRANSISTOR	OW01-00928-80B	
Q111	OW2SC945-P	TRANSISTOR	OW01-00945-80	
Q112	OWKSA928A-Y	TRANSISTOR	OW01-00928-80B	
Q113	OW2SC945-P	TRANSISTOR	OW01-00945-80	
Q115	OW2SA733PNP	TRANSISTOR	OW01-00733-80	
Q116	OWDTC314TS	TRANSISTOR	OW01-00314-20	
Q117	OWDTC314TS	TRANSISTOR	OW01-00314-20	
Q118	OWDTC314TS	TRANSISTOR	OW01-00314-20	
Q119	OWDTC314TS	TRANSISTOR	OW01-00314-20	
Q120	OWDTC314TS	TRANSISTOR	OW01-00314-20	
Q121	OWDTC314TS	TRANSISTOR	OW01-00314-20	
Q122	OW2SA733PNP	TRANSISTOR	OW01-00733-80	
Q123	OW2SC945-P	TRANSISTOR	OW01-00945-80	
Q207	OW2SC945-P	TRANSISTOR	OW01-00945-80	
Q208	OWKSA928A-Y	TRANSISTOR	OW01-00928-80B	
Q209	OW2SC945-P	TRANSISTOR	OW01-00945-80	
Q210	OWKSA928A-Y	TRANSISTOR	OW01-00928-80B	
Q211	OW2SC945-P	TRANSISTOR	OW01-00945-80	
Q212	OW2SC945-P	TRANSISTOR	OW01-00945-80	
Q300	OW2SC945-P	TRANSISTOR	OW01-00945-80	
Q302	OW2SC945-P	TRANSISTOR	OW01-00945-80	
Q402	OW2SC945-P	TRANSISTOR	OW01-00945-80	KB1
Q403	OW2SC945-P	TRANSISTOR	OW01-00945-80	KB1
Q405	OW2SA733PNP	TRANSISTOR	OW01-00733-80	
Q406	OW2SC945-P	TRANSISTOR	OW01-00945-80	KB22
Q407	OW2SC945-P	TRANSISTOR	OW01-00945-80	KB22
Q408	OW2SC945-P	TRANSISTOR	OW01-00945-80	KB22
Q409	OW8050D	TRANSISTOR	OW01-08050-81	KB22
Q410	OW8050D	TRANSISTOR	OW01-08050-81	KB22
Q411	OW8050D	TRANSISTOR	OW01-08050-81	KB22
D300	1N4148	DIODE	OW02-04148-81	
D301	1N4148	DIODE	OW02-04148-81	
D302	1N4148	DIODE	OW02-04148-81	
D303	1N4148	DIODE	OW02-04148-81	
D304	1N4148	DIODE	OW02-04148-81	
D305	1N4148	DIODE	OW02-04148-81	
D404	1N4001	DIODE	OW02-04001-81	
D405	1N4148	DIODE	OW02-04148-81	KB1
D406	1N4001	DIODE	OW02-04001-81	
Z200	3.3V0.5W	Z DIODE	OW02-50033-80T	
Z201	6.2V0.5W	Z DIODE	OW02-50062-80	
Z306	10V0.5W	Z DIODE	OW02-50100-80	
Z402	3.3V0.5W	Z DIODE	OW02-50033-80T	KB22
Z403	3.3V0.5W	Z DIODE	OW02-50033-80T	KB22
Z404	3.9V0.5W	Z DIODE	OW02-50039-81	KB22
C02	OW06-70108-20	E CAPACITOR	1000uF 10V	KB22
C03	OW05-77102-10	C CAPACITOR	Axial 1000pF	
C04	OW05-77102-10	C CAPACITOR	Axial 1000pF	
C05	OW05-77102-10	C CAPACITOR	Axial 1000pF	
C06	OW05-77102-10	C CAPACITOR	Axial 1000pF	
C100	OW05-73561-00	C CAPACITOR	560pF	
C101	OW05-73561-00	C CAPACITOR	560pF	
C102	OW05-73221-00	C CAPACITOR	220pF	
C104	OW05-73391-05	C CAPACITOR	390pF	
C105	OW05-73391-05	C CAPACITOR	390pF	
C106	OW05-73820-00	C CAPACITOR	82pF	
C107	OW05-73820-00	C CAPACITOR	82pF	
C108	OW05-73561-00	C CAPACITOR	560pF	
C109	OW05-73561-00	C CAPACITOR	560pF	
C110	OW05-73561-00	C CAPACITOR	560pF	
C111	OW05-73561-00	C CAPACITOR	560pF	
C120	OW05-73102-06F	C CAPACITOR	1000pF	
C121	OW05-73102-06F	C CAPACITOR	1000pF	
C124	OW05-73104-06F	C CAPACITOR	0.1uF	
C125	OW05-73104-06F	C CAPACITOR	0.1uF	
C126	OW05-73221-00	C CAPACITOR	220pF	
C127	OW05-73221-00	C CAPACITOR	220pF	
C130	OW05-73104-06F	C CAPACITOR	0.1uF	
C131	OW05-73104-06F	C CAPACITOR	0.1uF	
C132	OW05-73104-06F	C CAPACITOR	0.1uF	
C133	OW05-73102-06F	C CAPACITOR	1000pF	
C134	OW05-73102-06F	C CAPACITOR	1000pF	
C156	OW05-73103-06F	C CAPACITOR	0.01uF	
C200	OW05-73104-06F	C CAPACITOR	0.1uF	
C201	OW05-73561-00	C CAPACITOR	560pF	
C202	OW05-73561-00	C CAPACITOR	560pF	
C203	OW05-73104-06F	C CAPACITOR	0.1uF	
C204	OW05-73104-06F	C CAPACITOR	0.1uF	
C205	OW05-73103-06F	C CAPACITOR	0.01uF	
C206	OW05-73103-06F	C CAPACITOR	0.01uF	
C207	OW05-73471-06F	C CAPACITOR	470pF	
C208	OW05-73471-06F	C CAPACITOR	470pF	
C209	OW05-73104-06F	C CAPACITOR	0.1uF	
C210	OW05-73104-06F	C CAPACITOR	0.1uF	
C211	OW05-73104-06F	C CAPACITOR	0.1uF	
C212	OW05-73820-00	C CAPACITOR	82pF	
C213	OW05-73820-00	C CAPACITOR	82pF	
C214	OW05-73104-06F	C CAPACITOR	0.1uF	
C215	OW05-73104-06F	C CAPACITOR	0.1uF	
C218	OW05-73104-06F	C CAPACITOR	0.1uF	
C219	OW05-73103-06F	C CAPACITOR	0.01uF	
C220	OW05-73103-06F	C CAPACITOR	0.01uF	
C221	OW05-73104-06F	C CAPACITOR	0.1uF	
C222	OW05-73101-00	C CAPACITOR	100pF	
C223	OW05-77104-82	C CAPACITOR	Axial 0.1uF	KB1
C224	OW05-77104-82	C CAPACITOR	Axial 0.1uF	KB1
C300	OW05-73104-06F	C CAPACITOR	0.1uF	
C301	OW05-73104-06F	C CAPACITOR	0.1uF	
C302	OW05-73150-00	C CAPACITOR	15pF	
C303	OW07-76000-30	C RESISTOR	0 ohm 1/16W	
C304	OW05-73240-00	C CAPACITOR	24pF	
C305	OW05-73240-00	C CAPACITOR	24pF	
C306	OW05-73150-00	C CAPACITOR	15pF	
C307	OW05-73104-06F	C CAPACITOR	0.1uF	
C308	OW05-73104-06F	C CAPACITOR	0.1uF	
C309	OW05-73104-06F	C CAPACITOR	0.1uF	
C310	OW05-73223-06F	C CAPACITOR	0.022uF	
C311	OW05-73223-06F	C CAPACITOR	0.022uF	
C315	OW05-73104-06F	C CAPACITOR	0.1uF	
C316	OW05-73103-06F	C CAPACITOR	0.01uF	
C317	OW05-73103-06F	C CAPACITOR	0.01uF	
C318	OW05-73104-06F	C CAPACITOR	0.1uF	
C319	OW05-73104-06F	C CAPACITOR	0.1uF	
C320	OW05-73104-06F	C CAPACITOR	0.1uF	
C322	OW05-73104-06F	C CAPACITOR	0.1uF	
C400	OW05-73104-06F	C CAPACITOR	0.1uF	
C402	OW05-73102-06F	C CAPACITOR	1000pF	
C403	OW05-73102-06F	C CAPACITOR	1000pF	
C405	OW05-73330-00	C CAPACITOR	33pF	
C406	OW05-73330-00	C CAPACITOR	33pF	
C407	OW05-73473-00	C CAPACITOR	0.047uF	
C408	OW05-73473-00	C CAPACITOR	0.047uF	
C409	OW05-73473-00	C CAPACITOR	0.047uF	
C410	OW05-73103-06F	C CAPACITOR	0.01uF	
C411	OW05-73473-00	C CAPACITOR	0.047uF	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C412	OW05-73104-06F	C CAPACITOR	0.1uF	
C413	OW05-73473-00	C CAPACITOR	0.047uF	
C414	OW05-73153-00	C CAPACITOR	0.015uF	
C415	OW05-73470-06F	C CAPACITOR	47pF	
C416	OW05-73104-06F	C CAPACITOR	0.1uF	
C417	OW05-73103-06F	C CAPACITOR	0.01uF	
C418	OW05-73272-00	C CAPACITOR	2700pF	
C419	OW05-73104-06F	C CAPACITOR	0.1uF	
C420	OW05-73104-06F	C CAPACITOR	0.1uF	
C421	OW05-73473-00	C CAPACITOR	0.047uF	
C422	OW05-73104-06F	C CAPACITOR	0.1uF	
C423	OW05-73473-00	C CAPACITOR	0.047uF	
C424	OW05-73104-06F	C CAPACITOR	0.1uF	
C425	OW05-73104-06F	C CAPACITOR	0.1uF	
C426	OW05-73473-00	C CAPACITOR	0.047uF	
C427	OW05-73473-00	C CAPACITOR	0.047uF	
C428	OW05-73471-06F	C CAPACITOR	470pF	
C429	OW05-73471-06F	C CAPACITOR	470pF	
C430	OW05-73473-00	C CAPACITOR	0.047uF	
C431	OW05-73473-00	C CAPACITOR	0.047uF	
C432	OW05-73224-06F	C CAPACITOR	0.22uF	
C433	OW05-73224-06F	C CAPACITOR	0.22uF	
C434	OW05-73104-06F	C CAPACITOR	0.1uF	
C435	OW05-73820-00	C CAPACITOR	82pF	
C436	OW05-73104-06F	C CAPACITOR	0.1uF	
C437	OW05-73020-00	C CAPACITOR	2pF	
C438	OW05-73473-00	C CAPACITOR	0.047uF	
C439	OW05-73104-06F	C CAPACITOR	0.1uF	KB22
C440	OW05-73104-06F	C CAPACITOR	0.1uF	KB22
C441	OW05-73101-00	C CAPACITOR	100pF	KB22
C442	OW05-73104-06F	C CAPACITOR	0.1uF	KB22
C443	OW05-73104-06F	C CAPACITOR	0.1uF	KB22
C444	OW05-73104-06F	C CAPACITOR	0.1uF	KB22
C445	OW05-73222-00	C CAPACITOR	2200pF	KB22
C446	OW05-73222-00	C CAPACITOR	2200pF	KB22
C447	OW05-73104-06F	C CAPACITOR	0.1uF	KB22
C448	OW05-73104-06F	C CAPACITOR	0.1uF	KB22
C449	OW05-73104-06F	C CAPACITOR	0.1uF	KB22
C450	OW05-73104-06F	C CAPACITOR	0.1uF	KB22
C451	OW05-73104-06F	C CAPACITOR	0.1uF	KB22
C452	OW05-73104-06F	C CAPACITOR	0.1uF	KB22
C453	OW05-73334-00	C CAPACITOR	0.33uF	KB22
C454	OW05-73104-06F	C CAPACITOR	0.1uF	KB22
C455	OW05-73104-06F	C CAPACITOR	0.1uF	KB22
C457	OW05-73561-00	C CAPACITOR	560pF	KB1
C458	OW05-73561-00	C CAPACITOR	560pF	KB1
C460	OW05-73221-00	C CAPACITOR	220pF	
C461	OW05-73473-00	C CAPACITOR	0.047uF	
C462	OW05-73561-00	C CAPACITOR	560pF	
C463	OW05-73561-00	C CAPACITOR	560pF	
C465	OW05-73104-06F	C CAPACITOR	0.1uF	KB22
C466	OW05-73104-06F	C CAPACITOR	0.1uF	
C468	OW05-77103-20	C CAPACITOR	Axial 0.01uF	
C469	OW05-77103-20	C CAPACITOR	Axial 0.01uF	
R100	OW07-75104-06F	C RESISTOR	100 Kohm 1/16W	
R101	OW07-75104-06F	C RESISTOR	100 Kohm 1/16W	
R102	OW07-75513-06	C RESISTOR	51 Kohm 1/16W	
R103	OW07-75513-06	C RESISTOR	51 Kohm 1/16W	
R104	OW07-75303-06	C RESISTOR	30 Kohm 1/16W	
R105	OW07-75303-06	C RESISTOR	30 Kohm 1/16W	
R106	OW07-75470-06	C RESISTOR	47 ohm 1/16W	
R107	OW07-75470-06	C RESISTOR	47 ohm 1/16W	
R108	OW07-75184-06F	C RESISTOR	180 Kohm 1/16W	
R109	OW07-75184-06F	C RESISTOR	180 Kohm 1/16W	
R110	OW07-75153-06F	C RESISTOR	15 Kohm 1/16W	
R111	OW07-75153-06F	C RESISTOR	15 Kohm 1/16W	
R112	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R113	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R114	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R115	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R116	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R117	OW07-74101-50T	C RESISTOR	100 ohm 1/8W	
R118	OW07-75394-06F	C RESISTOR	390 Kohm 1/16W	
R119	OW07-75394-06F	C RESISTOR	390 Kohm 1/16W	
R120	OW07-75391-06F	C RESISTOR	390 ohm 1/16W	
R121	OW07-75391-06F	C RESISTOR	390 ohm 1/16W	
R122	OW07-75201-06	C RESISTOR	200 ohm 1/16W	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R123	OW07-75201-06	C RESISTOR	200 ohm 1/16W	
R124	OW07-75513-06	C RESISTOR	51 Kohm 1/16W	
R125	OW07-75513-06	C RESISTOR	51 Kohm 1/16W	
R126	OW07-75562-06F	C RESISTOR	5.6 Kohm 1/16W	
R127	OW07-75562-06F	C RESISTOR	5.6 Kohm 1/16W	
R128	OW07-75221-06F	C RESISTOR	220 ohm 1/16W	
R129	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R131	OW07-75104-06F	C RESISTOR	100 Kohm 1/16W	
R132	OW07-75104-06F	C RESISTOR	100 Kohm 1/16W	
R133	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R134	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R135	OW07-75223-06F	C RESISTOR	22 Kohm 1/16W	
R136	OW07-75220-06F	C RESISTOR	22 ohm 1/16W	
R137	OW07-74100-50T	C RESISTOR	10 ohm 1/8W	
R138	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R139	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R140	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R141	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R142	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R143	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R144	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R145	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R146	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R147	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R148	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R149	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R150	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R151	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R152	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R153	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R154	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R155	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R156	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R157	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R158	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R159	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R160	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R161	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R162	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R163	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R164	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R165	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R168	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R169	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R171	OW07-75105-06F	C RESISTOR	1 Mohm 1/16W	
R172	OW07-75184-06F	C RESISTOR	180 Kohm 1/16W	
R173	OW07-75184-06F	C RESISTOR	180 Kohm 1/16W	
R174	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R175	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R176	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R178	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R179	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R180	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R181	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R206	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R208	OW07-75104-06F	C RESISTOR	100 Kohm 1/16W	
R209	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R210	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R211	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R212	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R213	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R214	OW07-74101-50T	C RESISTOR	100 ohm 1/8W	
R217	OW07-74101-50T	C RESISTOR	100 ohm 1/8W	
R218	OW07-76000-30	C RESISTOR	0 ohm 1/16W	
R220	OW07-76000-30	C RESISTOR	0 ohm 1/16W	
R222	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R226	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R227	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R228	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R229	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R230	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R231	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R232	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R233	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R234	OW07-75391-06F	C RESISTOR	390 ohm 1/16W	
R239	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R240	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R241	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R242	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R243	OW07-75221-06F	C RESISTOR	220 ohm 1/16W	
R244	OW07-75332-06F	C RESISTOR	3.3 Kohm 1/16W	
R245	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R246	OW07-75223-06F	C RESISTOR	22 Kohm 1/16W	
R247	OW07-75561-06	C RESISTOR	560 ohm 1/16W	
R248	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R249	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R250	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R251	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R252	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R253	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R254	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R255	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R256	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R257	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R262	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R263	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R264	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R265	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R266	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R267	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R268	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R269	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R270	OW07-76000-30	C RESISTOR	0 ohm 1/16W	
R271	OW07-76000-30	C RESISTOR	0 ohm 1/16W	
R272	OW07-75152-06F	C RESISTOR	1.5 Kohm 1/16W	
R273	OW07-75823-06F	C RESISTOR	82 Kohm 1/16W	
R274	OW07-75104-06F	C RESISTOR	100 Kohm 1/16W	
R275	OW07-75222-06F	C RESISTOR	2.2 Kohm 1/16W	
R276	OW07-75152-06F	C RESISTOR	1.5 Kohm 1/16W	
R277	OW07-75823-06F	C RESISTOR	82 Kohm 1/16W	
R278	OW07-75104-06F	C RESISTOR	100 Kohm 1/16W	
R279	OW07-75222-06F	C RESISTOR	2.2 Kohm 1/16W	
R300	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R301	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R302	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R303	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R304	OW07-75222-06F	C RESISTOR	2.2 Kohm 1/16W	
R306	OW07-75152-06F	C RESISTOR	1.5 Kohm 1/16W	
R307	OW07-75152-06F	C RESISTOR	1.5 Kohm 1/16W	
R308	OW07-75152-06F	C RESISTOR	1.5 Kohm 1/16W	
R309	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R310	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R311	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R313	OW07-75332-06F	C RESISTOR	3.3 Kohm 1/16W	
R314	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R315	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R316	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R317	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R318	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R319	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R320	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R321	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R322	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R323	OW07-75222-06F	C RESISTOR	2.2 Kohm 1/16W	
R324	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R325	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R326	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R327	OW07-76000-30	C RESISTOR	0 ohm 1/16W	
R329	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R330	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R331	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R332	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R333	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R334	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R335	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R336	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R337	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R338	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R339	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R340	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R341	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R342	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R343	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R344	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R345	OW07-75223-06F	C RESISTOR	22 Kohm 1/16W	
R346	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	
R347	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R348	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R350	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R351	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R354	OW07-75223-06F	C RESISTOR	22 Kohm 1/16W	
R355	OW07-75331-06	C RESISTOR	330 ohm 1/16W	
R357	OW07-75222-06F	C RESISTOR	2.2 Kohm 1/16W	
R358	OW07-75334-06F	C RESISTOR	330 Kohm 1/16W	
R361	OW07-74101-50T	C RESISTOR	100 ohm 1/8W	
R401	OW07-75271-06	C RESISTOR	270 ohm 1/16W	KB1
R402	OW07-75271-06	C RESISTOR	270 ohm 1/16W	KB1
R403	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	KB1
R406	OW07-75100-06F	C RESISTOR	10 ohm 1/16W	
R407	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R408	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R409	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R410	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R411	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R412	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R413	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R414	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R417	OW07-75224-06	C RESISTOR	220 Kohm 1/16W	
R418	OW07-75683-06F	C RESISTOR	68 Kohm 1/16W	
R419	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R420	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R421	OW07-75332-06F	C RESISTOR	3.3 Kohm 1/16W	
R422	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R423	OW07-75222-06F	C RESISTOR	2.2 Kohm 1/16W	
R424	OW07-75223-06F	C RESISTOR	22 Kohm 1/16W	
R425	OW07-75221-06F	C RESISTOR	220 ohm 1/16W	
R426	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R427	OW07-75823-06F	C RESISTOR	82 Kohm 1/16W	
R428	OW07-75220-06F	C RESISTOR	22 ohm 1/16W	
R429	OW07-75332-06F	C RESISTOR	3.3 Kohm 1/16W	
R430	OW07-75332-06F	C RESISTOR	3.3 Kohm 1/16W	
R431	OW07-75332-06F	C RESISTOR	3.3 Kohm 1/16W	
R432	OW07-75332-06F	C RESISTOR	3.3 Kohm 1/16W	
R433	OW07-75562-06F	C RESISTOR	5.6 Kohm 1/16W	
R434	OW07-75332-06F	C RESISTOR	3.3 Kohm 1/16W	
R435	OW07-75332-06F	C RESISTOR	3.3 Kohm 1/16W	
R436	OW07-74102-30T	C RESISTOR	1 Kohm 1/16W	
R437	OW07-76000-30	C RESISTOR	0 ohm 1/16W	
R438	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R439	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R440	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R441	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R442	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R443	OW07-75473-06F	C RESISTOR	47 Kohm 1/16W	
R444	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R445	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R446	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R447	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R448	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	KB1
R448	OW07-75471-06	C RESISTOR	470 ohm 1/16W	KB22
R450	OW07-75222-06F	C RESISTOR	2.2 Kohm 1/16W	KB22
R451	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R452	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R453	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	KB22
R454	OW07-75333-06	C RESISTOR	33 Kohm 1/16W	KB22
R455	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R456	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R457	OW07-75222-06F	C RESISTOR	2.2 Kohm 1/16W	KB22
R458	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	KB22
R459	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	KB22
R460	OW07-75271-06	C RESISTOR	270 ohm 1/16W	KB22
R461	OW07-75271-06	C RESISTOR	270 ohm 1/16W	KB22
R462	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R463	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R464	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R465	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	KB22
R466	OW07-75271-06	C RESISTOR	270 ohm 1/16W	KB22
R467	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R468	OW07-75225-06F	C RESISTOR	2.2 Mohm 1/16W	KB22
R469	OW07-75271-06	C RESISTOR	270 ohm 1/16W	KB22
R470	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R471	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R472	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R473	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22

⚠ Symbol No.	Part No.	Part Name	Description	Local
R474	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R475	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R476	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R477	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R478	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R479	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R480	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R481	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R482	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R484	OW07-75512-06	C RESISTOR	5.1 Kohm 1/16W	KB1
R484	OW07-75752-06	C RESISTOR	7.5 Kohm 1/16W	KB22
R485	OW07-75512-06	C RESISTOR	5.1 Kohm 1/16W	KB1
R485	OW07-75752-06	C RESISTOR	7.5 Kohm 1/16W	KB22
R486	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	KB1
R487	OW07-75753-06F	C RESISTOR	75 Kohm 1/16W	
R489	OW07-76000-30	C RESISTOR	0 ohm 1/16W	
R498	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	
R499	OW07-75100-06F	C RESISTOR	10 ohm 1/16W	
R500	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R501	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R502	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R507	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R508	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R509	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R510	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R511	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R513	OW07-75331-06	C RESISTOR	330 ohm 1/16W	KB22
R514	OW07-75331-06	C RESISTOR	330 ohm 1/16W	KB22
R516	OW07-75151-06F	C RESISTOR	50 ohm 1/16W	KB22
R517	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R518	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R519	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R520	OW07-75103-06F	C RESISTOR	10 Kohm 1/16W	KB22
R521	OW07-75303-06	C RESISTOR	30 Kohm 1/16W	KB1
R521	OW07-75223-06F	C RESISTOR	22 Kohm 1/16W	KB22
R522	OW07-75222-06F	C RESISTOR	2.2 Kohm 1/16W	KB22
R523	OW07-75222-06F	C RESISTOR	2.2 Kohm 1/16W	KB22
R524	OW07-75222-06F	C RESISTOR	2.2 Kohm 1/16W	KB22
R525	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	KB22
R526	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	KB22
R527	OW07-75472-06F	C RESISTOR	4.7 Kohm 1/16W	KB22
R529	OW07-75303-06	C RESISTOR	30 Kohm 1/16W	KB1
R529	OW07-75223-06F	C RESISTOR	22 Kohm 1/16W	KB22
L100	OW09-39000-80	CHOKE COIL	39 mH	
L101	OW09-39000-80	CHOKE COIL	39 mH	
L102	OW09-70102-80	LEAD INDUCTOR	Axial 100 mH	
L200	OW09-70102-83	LEAD INDUCTOR	Axial CEC36-101K	
L201	OW09-70102-83	LEAD INDUCTOR	Axial CEC36-101K	
L300	OW09-70102-80	LEAD INDUCTOR	Axial 100 mH	
L301	OW09-70102-80	LEAD INDUCTOR	Axial 100 mH	
L401	OW08-01122-80	FERRITE BEADS	RH03509ST-B246	
L402	OW08-01122-80	FERRITE BEADS	RH03509ST-B246	
L403	OW08-01122-80	FERRITE BEADS	RH03509ST-B246	
L404	OW09-70471-80	LEAD INDUCTOR	Axial 47 mH	
L405	OW09-70101-80	LEAD INDUCTOR	Axial 0 mH	
L406	OW09-70471-80	LEAD INDUCTOR	Axial 47 mH	KB22
L407	OW09-70471-80	LEAD INDUCTOR	Axial 47 mH	KB22
L408	OW09-70471-80	LEAD INDUCTOR	Axial 47 mH	KB22
L409	OW09-70471-80	LEAD INDUCTOR	Axial 47 mH	KB22
L410	OW09-70471-80	LEAD INDUCTOR	Axial 47 mH	KB22
L411	OW09-70471-80	LEAD INDUCTOR	Axial 47 mH	KB22
L412	OW09-70471-80	LEAD INDUCTOR	Axial 47 mH	
T100	OW08-07163-80	BIAS COIL	LOD8869056	
CN100	OW20-21030-80	CONNECTOR	3P	
CN101	OW20-21070-80	CONNECTOR	7P	
CN103	OW20-80130-02	CONNECTOR	13P	
CN202	OW20-61030-01	CONNECTOR WIRE	3P	
CN204	OW20-41101-24	CONNECTOR WIRE	10P	
CN205	OW20-61133-00	CONNECTOR WIRE	13P	KB22
CN206	OW20-42110-00	CONNECTOR WIRE	11P	
CN207	OW20-21130-80	CONNECTOR	13P	
CN208	OW20-41020-00	CONNECTOR WIRE	2P	
CN401	OW20-80160-82	CONNECTOR	16P	
CN402	OW20-21060-80	CONNECTOR	6P	
EC100	OW06-71476-20	E CAPACITOR	47uF 16V	
EC101	OW06-70227-20	E CAPACITOR	220uF 10V	

⚠ Symbol No.	Part No.	Part Name	Description	Local
EC102	OW06-70227-20	E CAPACITOR	220uF 10V	
EC103	OW06-75475-20	E CAPACITOR	4.7uF 50V	
EC104	OW06-75475-20	E CAPACITOR	4.7uF 50V	
EC105	OW06-75475-20	E CAPACITOR	4.7uF 50V	
EC106	OW06-75475-20	E CAPACITOR	4.7uF 50V	
EC107	OW06-75475-20	E CAPACITOR	4.7uF 50V	
EC108	OW06-75475-20	E CAPACITOR	4.7uF 50V	
EC109	OW06-71476-20	E CAPACITOR	47uF 16V	
EC110	OW06-70108-20	E CAPACITOR	1000uF 10V	KB1
EC120	OW06-71476-20	E CAPACITOR	47uF 16V	
EC121	OW06-75225-20	E CAPACITOR	2.2uF 50V	
EC122	OW06-71477-20	E CAPACITOR	470uF 16V	
EC123	OW06-75225-20	E CAPACITOR	2.2uF 50V	
EC124	OW06-75225-20	E CAPACITOR	2.2uF 50V	
EC125	OW06-70227-20	E CAPACITOR	220uF 10V	
EC126	OW06-70107-20	E CAPACITOR	100uF 10V	
EC127	OW06-75475-20	E CAPACITOR	4.7uF 50V	
EC128	OW06-75475-20	E CAPACITOR	4.7uF 50V	
EC129	OW06-71476-20	E CAPACITOR	47uF 16V	
EC207	OW06-70107-20	E CAPACITOR	100uF 10V	
EC208	OW06-70227-20	E CAPACITOR	220uF 10V	
EC209	OW06-70227-20	E CAPACITOR	220uF 10V	
EC210	OW06-75225-20	E CAPACITOR	2.2uF 50V	
EC211	OW06-75225-20	E CAPACITOR	2.2uF 50V	
EC212	OW06-75225-20	E CAPACITOR	2.2uF 50V	
EC213	OW06-75225-20	E CAPACITOR	2.2uF 50V	
EC214	OW06-75225-20	E CAPACITOR	2.2uF 50V	
EC215	OW06-75225-20	E CAPACITOR	2.2uF 50V	
EC216	OW06-75225-20	E CAPACITOR	2.2uF 50V	
EC217	OW06-75225-20	E CAPACITOR	2.2uF 50V	
EC218	OW06-75225-20	E CAPACITOR	2.2uF 50V	
EC219	OW06-75225-20	E CAPACITOR	2.2uF 50V	
EC220	OW06-75225-20	E CAPACITOR	2.2uF 50V	
EC221	OW06-75225-20	E CAPACITOR	2.2uF 50V	
EC222	OW06-75105-20	E CAPACITOR	1uF 50V	
EC223	OW06-75105-20	E CAPACITOR	1uF 50V	
EC224	OW06-75475-20	E CAPACITOR	4.7uF 50V	
EC225	OW06-75475-20	E CAPACITOR	4.7uF 50V	
EC226	OW06-70227-20	E CAPACITOR	220uF 10V	
EC227	OW06-70227-20	E CAPACITOR	220uF 10V	
EC228	OW06-71476-20	E CAPACITOR	47uF 16V	
EC231	OW06-70227-20	E CAPACITOR	220uF 10V	
EC232	OW06-71476-20	E CAPACITOR	47uF 16V	
EC233	OW06-70107-20	E CAPACITOR	100uF 10V	
EC234	OW06-70107-20	E CAPACITOR	100uF 10V	
EC235	OW06-75225-20	E CAPACITOR	2.2uF 50V	
EC236	OW06-75225-20	E CAPACITOR	2.2uF 50V	
EC300	OW06-75105-20	E CAPACITOR	1uF 50V	
EC301	OW06-70108-20	E CAPACITOR	1000uF 10V	
EC302	OW06-70108-20	E CAPACITOR	1000uF 10V	
EC303	OW06-70107-20	E CAPACITOR	100uF 10V	
EC304	OW06-72226-20	E CAPACITOR	22uF 25V	
EC305	OW06-75105-20	E CAPACITOR	1uF 50V	
EC306	OW06-71476-20	E CAPACITOR	47uF 16V	
EC307	OW06-72106-20	E CAPACITOR	10uF 25V	
EC308	OW06-75475-20	E CAPACITOR	4.7uF 50V	
EC404	OW06-70227-20	E CAPACITOR	220uF 10V	
EC405	OW06-71476-20	E CAPACITOR	47uF 16V	
EC406	OW06-72226-20	E CAPACITOR	22uF 25V	
EC408	OW06-75105-20	E CAPACITOR	1uF 50V	
EC409	OW06-70107-20	E CAPACITOR	100uF 10V	
EC411	OW06-71476-20	E CAPACITOR	47uF 16V	
EC412	OW06-71476-20	E CAPACITOR	47uF 16V	
EC413	OW06-71476-20	E CAPACITOR	47uF 16V	
EC415	OW06-70107-20	E CAPACITOR	100uF 10V	
EC416	OW06-71476-20	E CAPACITOR	47uF 16V	
EC417	OW06-70107-20	E CAPACITOR	100uF 10V	
EC425	OW06-71476-20	E CAPACITOR	47uF 16V	
EC426	OW06-72106-20	E CAPACITOR	10uF 25V	KB22
EC427	OW06-71477-20	E CAPACITOR	470uF 16V	
EC429	OW06-71476-20	E CAPACITOR	47uF 16V	KB22
EC430	OW06-71476-20	E CAPACITOR	47uF 16V	
EC431	OW06-71476-20	E CAPACITOR	47uF 16V	
EC432	OW06-71476-20	E CAPACITOR	47uF 16V	
EC433	OW06-75475-20	E CAPACITOR	4.7uF 50V	
EC434	OW06-75475-20	E CAPACITOR	4.7uF 50V	
EC436	OW06-71476-20	E CAPACITOR	47uF 16V	KB22
EC437	OW06-71476-20	E CAPACITOR	47uF 16V	KB22

⚠ Symbol No.	Part No.	Part Name	Description	Local
EC438	OW06-71476-20	E CAPACITOR	47uF 16V	KB22
EC439	OW06-71476-20	E CAPACITOR	47uF 16V	KB22
EC440	OW06-71476-20	E CAPACITOR	47uF 16V	KB22
EC441	OW06-71476-20	E CAPACITOR	47uF 16V	KB22
EC442	OW06-71476-20	E CAPACITOR	47uF 16V	KB22
EC443	OW06-71476-20	E CAPACITOR	47uF 16V	KB22
EC444	OW06-71476-20	E CAPACITOR	47uF 16V	KB22
EC445	OW06-70227-20	E CAPACITOR	220uF 10V	KB22
JR10	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	KB22
JR11	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	KB22
JR12	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	KB22
JR13	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	
JR14	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	KB22
JR15	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	KB22
JR16	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	KB22
JR17	OW07-76000-30	C RESISTOR	0 ohm 1/16W	
JR18	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	
JR19	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	
JR20	OW07-76000-30	C RESISTOR	0 ohm 1/16W	KB22
JR21	OW07-76000-30	C RESISTOR	0 ohm 1/16W	KB22
JR22	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	KB22
JR23	OW07-76000-30	C RESISTOR	0 ohm 1/16W	
JR24	OW07-76000-30	C RESISTOR	0 ohm 1/16W	
JR25	OW07-76000-30	C RESISTOR	0 ohm 1/16W	
JR26	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	KB22
JR27	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	KB22
JR28	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	KB22
JR29	OW07-76000-30	C RESISTOR	0 ohm 1/16W	
JR31	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	KB22
JR32	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	KB22
JR33	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	KB22
JR34	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	KB22
JR35	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	KB22
JR37	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	
JR38	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	
JR39	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	
JR40	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	
JR41	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	
JR42	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	
JR43	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	
JR44	OW07-76000-30	C RESISTOR	0 ohm 1/16W	
JR45	OW07-76000-30	C RESISTOR	0 ohm 1/16W	
JR47	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	
JR48	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	
JR49	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	
JR50	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	
JR51	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	
JR52	OW07-75001-05F	C RESISTOR	0 ohm 1/8W	
MC102	OW05-72822-10	M CAPACITOR	0.0082uF	
MC103	OW05-72822-10	M CAPACITOR	0.0082uF	
MC104	OW05-72472-10	M CAPACITOR	0.0047uF	
MC105	OW05-70221-05	C CAPACITOR	220pF	
MC106	OW05-72682-10	M CAPACITOR	0.0068uF	
MC107	OW05-72102-10	M CAPACITOR	0.001uF	
MC108	OW05-72102-10	M CAPACITOR	0.001uF	
MC109	OW05-72102-10	M CAPACITOR	0.001uF	
MC110	OW05-72102-10	M CAPACITOR	0.001uF	
MC111	OW05-72102-10	M CAPACITOR	0.001uF	
MC401	OW05-72472-10	M CAPACITOR	0.0047uF	
MC402	OW05-72472-10	M CAPACITOR	0.0047uF	
P1-2	OW05-77104-82	C CAPACITOR	Axial 0.1uF	KB22
P3-4	OW05-77104-82	C CAPACITOR	Axial 0.1uF	KB22
X300	OW09-50720-80	C RESONATOR	ZTA7.2MT	
X301	OW04-32768-80	CRYSTAL	32.768MHz	
X401	OW04-16934-70	CRYSTAL	16.9344MHz	
XXXXX	OW08-04344-83	FERRITE CORE	CN100 to Play Head	E,EN
XXXXX	OW08-04344-83	FERRITE CORE	CN101 to R/P Head	E,EN
XXXXX	OW20-61030-03	CONNECTOR WIRE	3P For Play header	E,EN
XXXXX	OW20-61070-01	CONNECTOR WIRE	7P For R/P Header	E,EN
XXXXX	OW20-51061-20	CONNECTOR WIRE	6P To CD Pick up	
XXXXX	OW20-61030-00	CONNECTOR WIRE	3P For Play header	B,EV
XXXXX	OW20-61070-00	CONNECTOR WIRE	7P For R/P Header	B,EV
XXXXX	OW20-61073-11	CONNECTOR WIRE	7P To Power PCB	
XXXXX	OW39-00013-80	HEAT SINK	CDT13 for U403	
XXXXX	OW11-01002-00	MAIN PCB		
XXXXX	OW25-61135-80	FFC CABLE	16P	

⚠ Symbol No.	Part No.	Part Name	Description	Local
XXXXX	OW25-61260-80	CABLE	13P	

Power board

Block No. [0][2]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC801	STK402-050	IC(HYBRID)	OW03-40205-00	
U802	L7809CV	IC	OW03-07809-85	
U803	L7806CV	IC	OW03-07806-84	
Q801	8050	TRANSISTOR	OW01-08050-80	
Q802	2SB1243	TRANSISTOR	OW01-01243-80	
Q803	8050	TRANSISTOR	OW01-08050-80	
Q809	8050	TRANSISTOR	OW01-08050-80	
Q812	8050	TRANSISTOR	OW01-08050-80	
Q813	8050	TRANSISTOR	OW01-08050-80	
Q822	8050	TRANSISTOR	OW01-08050-80	
Q860	8050	TRANSISTOR	OW01-08050-80	
Q861	8050	TRANSISTOR	OW01-08050-80	
Q862	8550	TRANSISTOR	OW01-08550-86	
Q864	8050	TRANSISTOR	OW01-08050-80	
Q865	8050	TRANSISTOR	OW01-08050-80	
Q867	8050	TRANSISTOR	OW01-08050-80	
Q868	8550	TRANSISTOR	OW01-08550-86	
Q869	8050	TRANSISTOR	OW01-08050-80	
Q870	8050	TRANSISTOR	OW01-08050-80	
Q871	8050	TRANSISTOR	OW01-08050-80	
D1	1N4148	DIODE	OW02-04148-81	
D2	1N4148	DIODE	OW02-04148-81	
D800	1N4148	DIODE	OW02-04148-81	
D801	1N4001	DIODE	OW02-04001-81	
D803	1N4148	DIODE	OW02-04148-81	
D804	1N4001	DIODE	OW02-04001-81	
D806	1N4001	DIODE	OW02-04001-81	
D807	1N4001	DIODE	OW02-04001-81	
D808	1N4001	DIODE	OW02-04001-81	
D809	1N4001	DIODE	OW02-04001-81	
D810	1N4001	DIODE	OW02-04001-81	
D811	1N4001	DIODE	OW02-04001-81	
D812	1N4001	DIODE	OW02-04001-81	
D813	1N4001	DIODE	OW02-04001-81	
D845	1N4001	DIODE	OW02-04001-81	
D846	1N4001	DIODE	OW02-04001-81	
D849	1N5402	DIODE	OW02-05402-80	
D850	1N5402	DIODE	OW02-05402-80	
D851	1N5402	DIODE	OW02-05402-80	
D852	1N5402	DIODE	OW02-05402-80	
D864	1N4001	DIODE	OW02-04001-81	
D865	1N4148	DIODE	OW02-04148-81	
ZD822	13V0.5W	Z DIODE	OW02-50130-80	
ZD823	4.7V0.5W	Z DIODE	OW02-50047-80	
⚠ C801	OW05-73103-20	C CAPACITOR	16F	
C802	OW05-73221-00	C CAPACITOR	220pF	
C803	OW05-73050-05	C CAPACITOR	5pF	
C804	OW05-73474-00	C CAPACITOR	0.47uF	
C805	OW05-73474-00	C CAPACITOR	0.47uF	
C806	OW05-73050-05	C CAPACITOR	5pF	
C807	OW05-73102-00	C CAPACITOR	1000pF	
C808	OW05-73102-00	C CAPACITOR	1000pF	
C812	OW05-73103-00	C CAPACITOR	0.01uF	
C814	OW05-73561-00	C CAPACITOR	560pF	
C815	OW05-73561-00	C CAPACITOR	560pF	
C816	OW05-73221-00	C CAPACITOR	220pF	
C821	OW05-73104-00	C CAPACITOR	0.1uF	
C839	OW05-73103-00	C CAPACITOR	0.01uF	
C842	OW05-73103-00	C CAPACITOR	0.01uF	
C860	OW05-73474-00	C CAPACITOR	0.47uF	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C861	OW05-73474-00	C CAPACITOR	0.47uF	
C862	OW05-73105-06F	C CAPACITOR	1uF	
C863	OW05-73105-06F	C CAPACITOR	1uF	
C864	OW05-73103-00	C CAPACITOR	0.01uF	KB22
C865	OW05-73104-00	C CAPACITOR	0.1uF	
C866	OW05-73104-00	C CAPACITOR	0.1uF	
C901	OW05-70103-05	C CAPACITOR	0.01uF	
C902	OW05-70103-05	C CAPACITOR	0.01uF	
R801	OW07-75563-50	C RESISTOR	56 Kohm 1/8W	
R802	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
R803	OW07-75563-50	C RESISTOR	56 Kohm 1/8W	
R805	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R806	OW07-74031-40	C RESISTOR	0.33 ohm 1W	
R807	OW07-74031-40	C RESISTOR	0.33 ohm 1W	
R809	OW07-74047-10T	C RESISTOR	4.7 ohm 1/2W	E,EN
R809	OW07-75047-10	C RESISTOR	4.7 ohm 1W	B,EV
R810	OW07-74031-40	C RESISTOR	0.33 ohm 1W	
R812	OW07-75010-50	C RESISTOR	1 ohm 1/8W	
R814	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R815	OW07-74031-40	C RESISTOR	0.33 ohm 1W	
R816	OW07-70101-11	C RESISTOR	100 ohm 1/2W	
R817	OW07-75223-50	C RESISTOR	22 Kohm 1/8W	
R818	OW07-75153-50	C RESISTOR	15 Kohm 1/8W	
R819	OW07-75153-50	C RESISTOR	15 Kohm 1/8W	
R820	OW07-74047-10T	C RESISTOR	4.7 ohm 1/2W	E,EN
R820	OW07-75047-10	C RESISTOR	4.7 ohm 1W	B,EV
R821	OW07-75563-50	C RESISTOR	56 Kohm 1/8W	
R823	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
R824	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R825	OW07-75331-50	C RESISTOR	330 ohm 1/8W	
R826	OW07-75331-50	C RESISTOR	330 ohm 1/8W	
R827	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R829	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
R830	OW07-75563-50	C RESISTOR	56 Kohm 1/8W	
R831	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R832	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R837	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
R841	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R842	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R853	OW07-75472-50	C RESISTOR	4.7 Kohm 1/8W	
R860	OW07-75472-50	C RESISTOR	4.7 Kohm 1/8W	
R861	OW07-75472-50	C RESISTOR	4.7 Kohm 1/8W	
R862	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R863	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R864	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R867	OW07-75000-50	C RESISTOR	0 ohm 1/8W	
R868	OW07-75000-50	C RESISTOR	0 ohm 1/8W	
R870	OW07-75000-50	C RESISTOR	0 ohm 1/8W	
R871	OW07-75473-50	C RESISTOR	47 Kohm 1/8W	
R872	OW07-75473-50	C RESISTOR	47 Kohm 1/8W	
R877	OW07-75223-50	C RESISTOR	22 Kohm 1/8W	
R878	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
R879	OW07-75122-50	C RESISTOR	1.2 Kohm 1/8W	
R880	OW07-75122-50	C RESISTOR	1.2 Kohm 1/8W	
R881	OW07-75183-50	C RESISTOR	18 Kohm 1/8W	
R882	OW07-75183-50	C RESISTOR	18 Kohm 1/8W	
⚠ R883	OW07-15033-80	FUSE RESISTOR	3.3 ohm 1/4W	
R884	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R885	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R886	OW07-75561-50	C RESISTOR	560 ohm 1/8W	
R887	OW07-75561-50	C RESISTOR	560 ohm 1/8W	
R901	OW07-74561-40	C RESISTOR	560 ohm 1W	
R902	OW07-74561-40	C RESISTOR	560 ohm 1W	
⚠ TR801	OW15-01002-06	TRANSFORMER	EI-28GR2812A1	
L801	OW09-34004-80	CHOKE COIL	Spring 2mH 34T	
L802	OW09-34004-80	CHOKE COIL	Spring 2mH 34T	
⚠ L803	OW09-00400-00	CHOKE COIL	12.7 X 7.5 X 5	
L804	OW09-00080-00	CHOKE COIL	8 mH	KB1
L805	OW09-00080-00	CHOKE COIL	8 mH	KB1
AC	OW37-00002-80	EYELET	F 2 X 4 mm	
AC3	OW37-00002-80	EYELET	F 2 X 4 mm	
AC5	OW37-00002-80	EYELET	F 2 X 4 mm	
AC6	OW37-00002-80	EYELET	F 2 X 4 mm	
AC7	OW37-00002-80	EYELET	F 2 X 4 mm	
AC8	OW37-00002-80	EYELET	F 2 X 4 mm	

⚠ Symbol No.	Part No.	Part Name	Description	Local
AC9	OW37-00002-80	EYELET	F 2 X 4 mm	
AC-L	OW37-00002-80	EYELET	F 2 X 4 mm	
AC-N	OW37-00002-80	EYELET	F 2 X 4 mm	
AC10	OW37-00002-80	EYELET	F 2 X 4 mm	
AC11	OW37-00002-80	EYELET	F 2 X 4 mm	
AC12	OW37-00002-80	EYELET	F 2 X 4 mm	KB22
AC240V	OW37-00002-80	EYELET	F 2 X 4 mm	
CE802	OW06-72228-20B	E CAPACITOR	2200uF 25V	
CE803	OW06-75107-20	E CAPACITOR	100uF 50V	
CE804	OW06-72477-20	E CAPACITOR	470uF 25V	
CE805	OW06-75106-20	E CAPACITOR	10uF 50V	
CE806	OW06-72107-20	E CAPACITOR	100uF 25V	
CE807	OW06-71107-20	E CAPACITOR	100uF 16V	
CE808	OW06-72107-20	E CAPACITOR	100uF 25V	
CE809	OW06-72107-20	E CAPACITOR	100uF 25V	
CE810	OW06-71107-20	E CAPACITOR	100uF 16V	
CE811	OW06-75476-20	E CAPACITOR	47uF 50V	
CE829	OW06-75228-80	E CAPACITOR	2200uF 50V	
CE830	OW06-75228-80	E CAPACITOR	2200uF 50V	
CE861	OW06-71107-20	E CAPACITOR	100uF 16V	
CE862	OW06-71107-20	E CAPACITOR	100uF 16V	
CE865	OW06-72107-20	E CAPACITOR	100uF 25V	
CE866	OW06-75106-20	E CAPACITOR	10uF 50V	
CE868	OW06-72106-20	E CAPACITOR	10uF 25V	
CN801	OW20-11020-80	CONNECTOR	2P	
CN802	OW20-11070-80	CONNECTOR	7P	
CN803	OW20-12110-80	CONNECTOR	11P	
CN804	OW20-45041-80	CONNECTOR WIRE	4P	
CN861	OW20-11050-80	CONNECTOR	5P	
CN901	OW20-15040-80	CONNECTOR	4P	
CN902	OW20-41051-37	CONNECTOR WIRE	5P	
GND1	OW37-00002-80	EYELET	F 2 X 4 mm	
J901	OW12-00006-81	SPEAKER JACK	NSX-1	
JK901	OW12-21235-80	HEADPHONE JACK	EJ-3511-0202B	
JW836	OW07-74472-50T	C RESISTOR	4.7 Kohm 1/8W	
JW901	OW09-00080-00	CHOKE COIL	8 mH	KB1
JW902	OW09-00080-00	CHOKE COIL	8 mH	KB1
RL801	OW16-50212-00	RELAY SWITCH	OSA-SS-212DM5 DC12V	
⚠ RL802	OW16-50101-80	RELAY SWITCH	ME-7-005-HL	
XXXXX	OW08-04344-83	FERRITE CORE	For Headphone	KB1
XXXXX	OW08-04344-88	FERRITE CORE	For AC Cord	E,EN
XXXXX	OW81-00707-80	BUSHING	For U802	
XXXXX	OW81-00707-80	BUSHING	For U803	
XXXXX	OW20-61133-00	CONNECTOR WIRE	13P Main CN205	KB1
XXXXX	OW39-10001-81	FUSE HOLDER	For F801-804(x4)	
XXXXX	OW25-83120-80	CONNECTOR WIRE	2P A1B1 to A2B2	
XXXXX	OW11-01002-01	POWER PCB		
XXXXX	OW11-01002-04	HEADPHONE PCB		
XXXXX	OW11-01002-06	SPEAKER PCB		
XXXXX	OW84-00003-80	CABLE TIE	4 UL	

Display board

Block No. [0][3]

⚠ Symbol No.	Part No.	Part Name	Description	Local
U500	PT6311	IC	OW03-16311-80	
D500	1N4148	DIODE	OW02-04148-81	
C500	OW05-73104-06F	C CAPACITOR	0.1uF	
C501	OW05-73104-06F	C CAPACITOR	0.1uF	
C502	OW05-73221-00	C CAPACITOR	220pF	
C503	OW05-73221-00	C CAPACITOR	220pF	
C504	OW05-73474-03T	C CAPACITOR	47K	
C505	OW05-73474-03T	C CAPACITOR	47K	
C506	OW05-73104-06F	C CAPACITOR	0.1uF	
C507	OW05-73010-00	C CAPACITOR	100pF	KB22
C508	OW05-73151-00	C CAPACITOR	150pF	KB22
C509	OW05-73821-00	C CAPACITOR	820pF	KB22
R500	OW07-75563-06F	C RESISTOR	56 Kohm 1/16W	
R501	OW07-75101-06F	C RESISTOR	100 ohm 1/16W	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R503	OW07-75681-06F	C RESISTOR	680 ohm 1/16W	
R504	OW07-75273-06F	C RESISTOR	27 Kohm 1/16W	
R505	OW07-75471-06F	C RESISTOR	470 ohm 1/16W	
R506	OW07-75681-06F	C RESISTOR	680 ohm 1/16W	
R507	OW07-75821-06	C RESISTOR	820 ohm 1/16W	
R508	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R509	OW07-75122-06	C RESISTOR	1.2 Kohm 1/16W	
R510	OW07-75152-06F	C RESISTOR	1.5 Kohm 1/16W	
R511	OW07-75182-06F	C RESISTOR	1.8 Kohm 1/16W	
R512	OW07-75222-06F	C RESISTOR	2.2 Kohm 1/16W	
R513	OW07-75272-06	C RESISTOR	2.7 Kohm 1/16W	
R514	OW07-75392-06	C RESISTOR	3.9 Kohm 1/16W	
R515	OW07-75562-06F	C RESISTOR	5.6 Kohm 1/16W	
R516	OW07-75822-06F	C RESISTOR	8.2 Kohm 1/16W	
R518	OW07-75273-06F	C RESISTOR	27 Kohm 1/16W	
R519	OW07-75471-06F	C RESISTOR	470 ohm 1/16W	
R520	OW07-75681-06F	C RESISTOR	680 ohm 1/16W	
R521	OW07-75821-06	C RESISTOR	820 ohm 1/16W	
R522	OW07-75102-06F	C RESISTOR	1 Kohm 1/16W	
R523	OW07-75122-06	C RESISTOR	1.2 Kohm 1/16W	
R524	OW07-75152-06F	C RESISTOR	1.5 Kohm 1/16W	
R525	OW07-75182-06F	C RESISTOR	1.8 Kohm 1/16W	
R526	OW07-75222-06F	C RESISTOR	2.2 Kohm 1/16W	
R527	OW07-75272-06	C RESISTOR	2.7 Kohm 1/16W	
R528	OW07-75392-06	C RESISTOR	3.9 Kohm 1/16W	
R529	OW07-75562-06F	C RESISTOR	5.6 Kohm 1/16W	
R530	OW07-75822-06F	C RESISTOR	8.2 Kohm 1/16W	
R531	OW07-75153-06F	C RESISTOR	15 Kohm 1/16W	
R532	OW07-75153-06F	C RESISTOR	15 Kohm 1/16W	
L501	OW09-70102-80	LEAD INDUCTOR	Axial 100 mH	
L502	OW08-04446-00	FERRITE COIL	4T 46 mH	
L503	OW08-04446-00	FERRITE COIL	4T 46 mH	
L504	OW08-04446-00	FERRITE COIL	4T 46 mH	
CN500	OW20-41130-00	CONNECTOR WIRE	13P	
CN504	OW20-21030-80	CONNECTOR	3P	
CN505	OW20-11040-80	CONNECTOR	4P	
CN508	OW20-41040-00	CONNECTOR WIRE	4P	
EC500	OW06-70227-24	E CAPACITOR	220uF 10V	
EC501	OW06-70226-24	E CAPACITOR	220uF 10V	
EN500	OW18-51211-00	R.ENCODER	25mm	
IR500	OW02-61719-00	SENSOR	HRM138BB1719	
LED50	L-1034HD	LED	OW02-21034-80 Red	
S500	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S501	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S502	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S503	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S504	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S505	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S506	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S507	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S508	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S509	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S510	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S511	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S512	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S513	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S514	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S515	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S516	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S517	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S518	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S519	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S520	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S521	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S522	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S523	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S524	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S525	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S526	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S527	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
S528	OW16-10102-85	SWITCH	4.3 mm SKQSAE	
SJ500	OW12-10035-12	PHONE JACK	F3.5 ST-101	
XXXXX	OW25-94060-80	CONNECTOR WIRE	2P CN506 to CN512	KB1
XXXXX	OW25-83100-02	CONNECTOR WIRE	2P CN513 to CN514	KB1
XXXXX	OW05-70104-10	C CAPACITOR	0.1uF	
XXXXX	OW08-04344-89T	FERRITE CORE	For CN500	
XXXXX	OW11-01002-07	DISPLAY PCB		
XXXXX	OW25-83050-05	CONNECTOR WIRE	5P CN501 to CN502	
XXXXX	OW25-83100-02	CONNECTOR WIRE	2P CN510 to CN511	
XXXXX	OW25-94060-80	CONNECTOR WIRE	2P CN503 to CN509	

Tuner board (B EV ver.)

Block No. [0][4]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC601	TC9257F	IC	OW03-09257-81	
IC602	TA2149BN	IC	OW03-02149-81	
Q601	9014	TRANSISTOR	OW01-09014-85	
Q602	9014	TRANSISTOR	OW01-09014-85	
Q603	9014	TRANSISTOR	OW01-09014-85	
Q604	9014	TRANSISTOR	OW01-09014-85	
Q605	2SC945-P	TRANSISTOR	OW01-09014-85	
Q606	9014	TRANSISTOR	OW01-09014-85	
Q607	8550	TRANSISTOR	OW01-08550-86	
Q608	2SC945-P	TRANSISTOR	OW01-09014-85	
Q609	2SC945-P	TRANSISTOR	OW01-09014-85	
Q611	2SC945-P	TRANSISTOR	OW01-09014-85	
D601	1N4148	DIODE	OW02-04148-81	
D602	1N4148	DIODE	OW02-04148-81	
D603	1N4148	DIODE	OW02-04148-81	
D604	1N4148	DIODE	OW02-04148-81	
ZD601	3.3V0.5W	Z DIODE	OW02-50033-80T	
C600	OW05-73104-00	C CAPACITOR	0.1uF	
C601	OW05-73330-05	C CAPACITOR	33pF	
C602	OW05-73330-05	C CAPACITOR	33pF	
C603	OW05-73104-00	C CAPACITOR	0.1uF	
C604	OW05-73223-00	C CAPACITOR	0.022uF	
C605	OW05-73102-00	C CAPACITOR	1000pF	
C606	OW05-73102-00	C CAPACITOR	1000pF	
C608	OW05-73103-00	C CAPACITOR	0.01uF	
C609	OW05-73104-00	C CAPACITOR	0.1uF	
C610	OW05-73331-00	C CAPACITOR	330pF	
C611	OW05-73104-00	C CAPACITOR	0.1uF	
C612	OW05-73100-05	C CAPACITOR	10pF	
C613	OW05-73180-05	C CAPACITOR	18pF	
C614	OW05-73060-05	C CAPACITOR	6pF	
C615	OW05-73180-05	C CAPACITOR	18pF	
C616	OW05-73220-05	C CAPACITOR	22pF	
C617	OW07-75000-50	C RESISTOR	0 ohm 1/8W	
C618	OW05-73220-05	C CAPACITOR	22pF	
C619	OW05-73270-05	C CAPACITOR	27pF	
C620	OW05-73103-00	C CAPACITOR	0.01uF	
C621	OW05-73104-00	C CAPACITOR	0.1uF	
C622	OW05-73104-00	C CAPACITOR	0.1uF	
C623	OW05-73474-00	C CAPACITOR	0.47uF	
C624	OW05-73103-00	C CAPACITOR	0.01uF	
C625	OW05-73474-00	C CAPACITOR	0.47uF	
C626	OW05-73105-06F	C CAPACITOR	1uF	
C627	OW05-73105-06F	C CAPACITOR	1uF	
C628	OW05-73474-00	C CAPACITOR	0.47uF	
C629	OW05-73104-00	C CAPACITOR	0.1uF	
C630	OW05-73104-00	C CAPACITOR	0.1uF	
C631	OW05-73473-00	C CAPACITOR	0.047uF	
C632	OW05-73104-00	C CAPACITOR	0.1uF	
C633	OW05-73104-00	C CAPACITOR	0.1uF	
C634	OW05-73223-00	C CAPACITOR	0.022uF	
C635	OW05-73180-05	C CAPACITOR	18pF	
C636	OW05-73223-00	C CAPACITOR	0.022uF	
C637	OW05-73103-00	C CAPACITOR	0.01uF	
C638	OW05-73101-05	C CAPACITOR	100pF	
C639	OW05-73104-00	C CAPACITOR	0.1uF	
C640	OW05-73104-00	C CAPACITOR	0.1uF	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C641	OW05-73102-00	C CAPACITOR	1000pF	
C642	OW05-73332-00	C CAPACITOR	3300pF	
C644	OW05-73180-05	C CAPACITOR	18pF	
C645	OW05-73104-00	C CAPACITOR	0.1uF	
C647	OW05-73100-05	C CAPACITOR	10pF	
C649	OW05-73101-05	C CAPACITOR	100pF	
C650	OW05-73101-05	C CAPACITOR	100pF	
C651	OW05-73101-05	C CAPACITOR	100pF	
C652	OW07-75000-50	C RESISTOR	0 ohm 1/8W	
Q610	SVC348S	VARI CAP DIODE	OW02-00348-80	
VC603	SVC201	VARI CAP DIODE	OW02-00201-81	
VC604	OW05-78200-22	TR CAPACITOR	20pF	
VC605	SVC201	VARI CAP DIODE	OW02-00201-81	
VC606	OW05-08100-82	TR CAPACITOR	10pF	
R600	OW07-75471-50	C RESISTOR	470 ohm 1/8W	
R601	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R602	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R603	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
R604	OW07-75222-50	C RESISTOR	2.2 Kohm 1/8W	
R605	OW07-75122-50	C RESISTOR	1.2 Kohm 1/8W	
R606	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
R608	OW07-75331-50	C RESISTOR	330 ohm 1/8W	
R609	OW07-75222-50	C RESISTOR	2.2 Kohm 1/8W	
R610	OW07-75222-50	C RESISTOR	2.2 Kohm 1/8W	
R611	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
R612	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R613	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R614	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
R615	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R616	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
R617	OW07-75472-50	C RESISTOR	4.7 Kohm 1/8W	
R618	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R619	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R620	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
R621	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R622	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R623	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R624	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R625	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R626	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R627	OW07-75471-50	C RESISTOR	470 ohm 1/8W	
R629	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R630	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
R631	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
R632	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R633	OW07-75222-50	C RESISTOR	2.2 Kohm 1/8W	
R634	OW07-75221-50	C RESISTOR	220 ohm 1/8W	
R635	OW07-75333-06	C RESISTOR	33 Kohm 1/16W	
R637	OW07-75331-50	C RESISTOR	330 ohm 1/8W	
R639	OW07-75473-50	C RESISTOR	47 Kohm 1/8W	
R640	OW07-75392-50	C RESISTOR	3.9 Kohm 1/8W	
R641	OW07-75392-50	C RESISTOR	3.9 Kohm 1/8W	
R642	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R643	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R644	OW07-75222-50	C RESISTOR	2.2 Kohm 1/8W	
R645	OW07-75222-50	C RESISTOR	2.2 Kohm 1/8W	
R648	OW07-75332-50	C RESISTOR	3.3 Kohm 1/8W	
R649	OW07-75100-50	C RESISTOR	10 ohm 1/8W	
R650	OW07-75220-50	C RESISTOR	22 ohm 1/8W	
R651	OW07-75100-50	C RESISTOR	10 ohm 1/8W	
R652	OW07-75223-50	C RESISTOR	22 Kohm 1/8W	
R653	OW07-75473-50	C RESISTOR	47 Kohm 1/8W	
R654	OW07-75473-50	C RESISTOR	47 Kohm 1/8W	
R655	OW07-75104-50	C RESISTOR	100 Kohm 1/8W	
R656	OW07-75104-50	C RESISTOR	100 Kohm 1/8W	
R657	OW07-75104-50	C RESISTOR	100 Kohm 1/8W	
R660	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R661	OW07-75332-50	C RESISTOR	3.3 Kohm 1/8W	
L601	OW09-65035-80	FM COIL	F3.5 X 61/20.5	
L602	OW09-65035-80	FM COIL	F3.5 X 61/20.5	
L603	OW09-70101-82T	COIL	10 Mh	
L604	OW09-35040-80	FM COIL	F4 mm	
L605	OW09-35040-80	FM COIL	F4 mm	
CE600	OW06-72477-20	E CAPACITOR	470uF 25V	
CE601	OW06-75475-20	E CAPACITOR	4.7uF 50V	
CE602	OW06-75475-20	E CAPACITOR	4.7uF 50V	
CE603	OW06-72477-20	E CAPACITOR	470uF 25V	
CE604	OW06-72477-20	E CAPACITOR	470uF 25V	
CE611	OW06-75225-20	E CAPACITOR	2.2uF 50V	
CE612	OW06-75225-20	E CAPACITOR	2.2uF 50V	
CF602	OW09-50107-80	CERAMIC FILTER	LT10.7MS3	B,KB1_EV
CF602	OW09-50107-87	CER FILTER	DIS JT10.7MG82	KB22
CF604	OW09-50450-89	CERAMIC FILTER	AHCFM2-450BL	B,KB1_EV
CF604	OW09-50450-81	CER FILTER	AHCFM2-450BL	KB22
CN601	OW20-21130-80	CONNECTOR	13P	
FMANT	OW29-21400-81	FM ANTENNA		
IFT601	OW08-12179-80	IFT COIL	AHK7-864364NP	
IFT602	OW08-00234-80	IFT COIL	10 mm	
IFT605	OW08-71495-80	IFT COIL	7 mm	
IFT606	OW08-87630-80	AM ANT COIL	0A10-876 305NP	
J601	OW12-00201-00	AM ANT SOCKET	WP2-2B	
JW603	OW07-76000-50	C RESISTOR	0 ohm 1/8W	
JW614	OW07-76000-50	C RESISTOR	0 ohm 1/8W	
JW617	OW07-74221-50T	C RESISTOR	220 ohm 1/8W	
JW625	OW07-75000-50	C RESISTOR	0 ohm 1/8W	
JW626	OW07-76000-50	C RESISTOR	0 ohm 1/8W	
JW627	OW07-76000-50	C RESISTOR	0 ohm 1/8W	
JW642	OW07-75000-50	C RESISTOR	0 ohm 1/8W	
XT601	OW04-07200-80	CRYSTAL	7.2MHz	
XXXXX	OW37-00002-80	EYELET	For FM ANT	
XXXXX	OW81-10001-80	SPONGE	For L604 L605(x2)	
XXXXX	OW08-04344-88	FERRITE CORE	T-25 X 15 X 10	
XXXXX	OW11-01002-03	TUNER PCB		

Tuner board (E EN ver.)

Block No. [0][5]

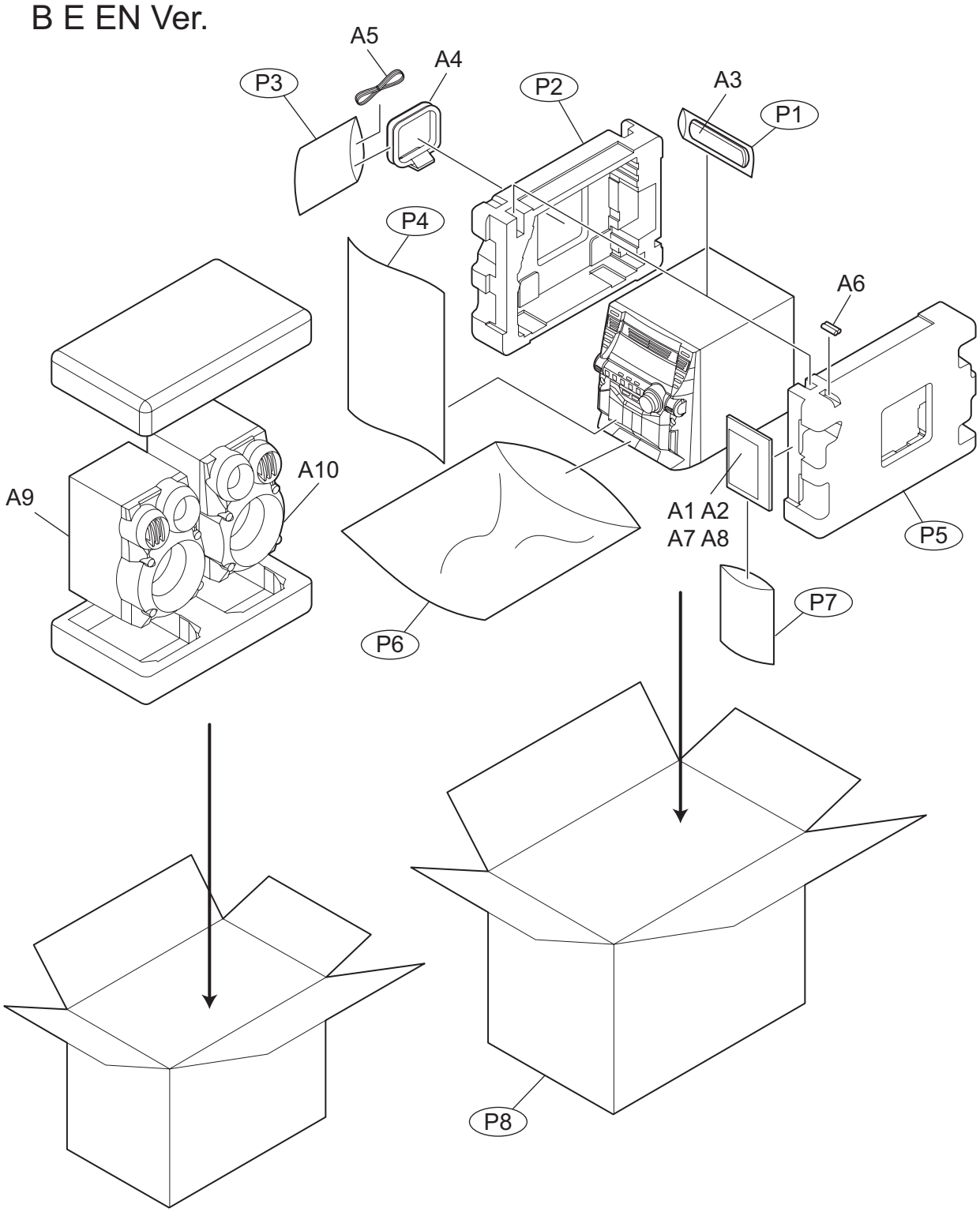
⚠ Symbol No.	Part No.	Part Name	Description	Local
IC600	TC9257	IC	OW03-09257-81	
IC602	TA2099	IC	OW03-02099-00	
Q600	8550	TRANSISTOR	OW01-08550-86	
Q601	9014	TRANSISTOR	OW01-09014-85	
Q602	9014	TRANSISTOR	OW01-09014-85	
Q603	9014	TRANSISTOR	OW01-09014-85	
Q604	9014	TRANSISTOR	OW01-09014-85	
Q605	9014	TRANSISTOR	OW01-09014-85	
Q606	9014	TRANSISTOR	OW01-09014-85	
Q607	8550	TRANSISTOR	OW01-08550-86	
Q608	9014	TRANSISTOR	OW01-09014-85	
Q609	9014	TRANSISTOR	OW01-09014-85	
Q610	9014	TRANSISTOR	OW01-09014-85	
Q611	2SC2999D	TRANSISTOR	OW01-02999-04T	
D601	1N4148	DIODE	OW02-04148-81	
D602	1N4148	DIODE	OW02-04148-81	
D603	1N4148	DIODE	OW02-04148-81	
ZD601	5.6V0.5W	Z DIODE	OW02-50056-80	
C601	OW05-73300-05	C CAPACITOR	30pF	
C602	OW05-73300-05	C CAPACITOR	30pF	
C603	OW05-73104-00	C CAPACITOR	0.1uF	
C604	OW05-73104-00	C CAPACITOR	0.1uF	
C605	OW05-73473-00	C CAPACITOR	0.047uF	
C606	OW05-73102-00	C CAPACITOR	1000pF	
C609	OW05-73471-05	C CAPACITOR	470pF	
C610	OW05-73331-05	C CAPACITOR	330pF	
C611	OW05-73222-00	C CAPACITOR	2200pF	
C612	OW05-73102-00	C CAPACITOR	1000pF	
C613	OW05-73220-05	C CAPACITOR	22pF	
C614	OW05-73104-00	C CAPACITOR	0.1uF	
C615	OW05-73103-06E	C CAPACITOR	0.01uF	
C616	OW05-73104-00	C CAPACITOR	0.1uF	
C617	OW05-73104-00	C CAPACITOR	0.1uF	
C623	OW05-73472-00	C CAPACITOR	4700pF	
C624	OW05-73682-00	C CAPACITOR	6800pF	
C625	OW05-73473-00	C CAPACITOR	0.047uF	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C626	OW05-73682-00	C CAPACITOR	6800pF	
C627	OW05-73472-00	C CAPACITOR	4700pF	
C628	OW05-73473-00	C CAPACITOR	0.047uF	
C629	OW05-73104-00	C CAPACITOR	0.1uF	
C634	OW05-73105-06F	C CAPACITOR	1uF	
C635	OW05-73105-06F	C CAPACITOR	1uF	
C636	OW05-73105-06F	C CAPACITOR	1uF	
C637	OW05-73474-00	C CAPACITOR	0.47uF	
C638	OW05-73474-00	C CAPACITOR	0.47uF	
C639	OW05-73105-06F	C CAPACITOR	1uF	
C640	OW05-73101-05	C CAPACITOR	100pF	
C641	OW05-73104-00	C CAPACITOR	0.1uF	
C642	OW05-73104-00	C CAPACITOR	0.1uF	
C643	OW05-73150-05	C CAPACITOR	15pF	
C644	OW05-73101-05	C CAPACITOR	100pF	
C645	OW05-73101-05	C CAPACITOR	100pF	
C646	OW05-73102-00	C CAPACITOR	1000pF	
Q614	SVC348S	VARI CAP DIODE	OW02-00348-80	
VC601	OW05-08100-82	TRIMMER	10pF	
R600	OW07-74103-50	C RESISTOR	10 Kohm 1/8W	
R601	OW07-75222-50	C RESISTOR	2.2 Kohm 1/8W	
R602	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R603	OW07-74103-50	C RESISTOR	10 Kohm 1/8W	
R604	OW07-74103-50	C RESISTOR	10 Kohm 1/8W	
R605	OW07-74103-50	C RESISTOR	10 Kohm 1/8W	
R606	OW07-74103-50	C RESISTOR	10 Kohm 1/8W	
R607	OW07-74472-50	C RESISTOR	4.7 Kohm 1/8W	
R608	OW07-74103-50	C RESISTOR	10 Kohm 1/8W	
R609	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R610	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R611	OW07-74103-50	C RESISTOR	10 Kohm 1/8W	
R612	OW07-75221-50	C RESISTOR	220 ohm 1/8W	
R613	OW07-74103-50	C RESISTOR	10 Kohm 1/8W	
R614	OW07-74103-50	C RESISTOR	10 Kohm 1/8W	
R616	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R617	OW07-75222-50	C RESISTOR	2.2 Kohm 1/8W	
R618	OW07-75562-60F	C RESISTOR	5.6 Kohm 1/16W	
R619	OW07-75152-50	C RESISTOR	1.5 Kohm 1/8W	
R620	OW07-75222-50	C RESISTOR	2.2 Kohm 1/8W	
R621	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R622	OW07-74332-50	C RESISTOR	3.3 Kohm 1/8W	
R623	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R624	OW07-74561-50	C RESISTOR	560 ohm 1/8W	
R625	OW07-75000-50	C RESISTOR	0 ohm 1/8W	
R626	OW07-75151-50	C RESISTOR	150 ohm 1/8W	
R627	OW07-75331-50	C RESISTOR	330 ohm 1/8W	
R629	OW07-75101-50	C RESISTOR	100 ohm 1/8W	
R630	OW07-75471-50	C RESISTOR	470 ohm 1/8W	
R631	OW07-75561-50	C RESISTOR	560 ohm 1/8W	
R632	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
R633	OW07-75332-50	C RESISTOR	3.3 Kohm 1/8W	
R634	OW07-75562-60F	C RESISTOR	5.6 Kohm 1/16W	
R635	OW07-75222-50	C RESISTOR	2.2 Kohm 1/8W	
R636	OW07-75183-50	C RESISTOR	18 Kohm 1/8W	
R637	OW07-75123-50	C RESISTOR	12 Kohm 1/8W	
R638	OW07-75332-50	C RESISTOR	3.3 Kohm 1/8W	
R639	OW07-75332-50	C RESISTOR	3.3 Kohm 1/8W	
R640	OW07-75562-60F	C RESISTOR	5.6 Kohm 1/16W	
R641	OW07-75223-50	C RESISTOR	22 Kohm 1/8W	
R642	OW07-75332-50	C RESISTOR	3.3 Kohm 1/8W	
R643	OW07-75332-50	C RESISTOR	3.3 Kohm 1/8W	
R644	OW07-75562-60F	C RESISTOR	5.6 Kohm 1/16W	
R645	OW07-75182-50	C RESISTOR	1.8 Kohm 1/8W	
R646	OW07-75182-50	C RESISTOR	1.8 Kohm 1/8W	
R647	OW07-75332-50	C RESISTOR	3.3 Kohm 1/8W	
R648	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R649	OW07-75222-50	C RESISTOR	2.2 Kohm 1/8W	
R650	OW07-75100-50	C RESISTOR	10 ohm 1/8W	
R651	OW07-75122-50	C RESISTOR	1.2 Kohm 1/8W	
R652	OW07-75223-50	C RESISTOR	22 Kohm 1/8W	
R653	OW07-75104-50	C RESISTOR	100 Kohm 1/8W	
R654	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R655	OW07-75562-60F	C RESISTOR	5.6 Kohm 1/16W	
R665	OW07-75104-50	C RESISTOR	100 Kohm 1/8W	
R666	OW07-75332-50	C RESISTOR	3.3 Kohm 1/8W	
R667	OW07-75332-50	C RESISTOR	3.3 Kohm 1/8W	
R668	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
R669	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
R670	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
R671	OW07-75000-50	C RESISTOR	0 ohm 1/8W	
R672	OW07-75103-50	C RESISTOR	10 Kohm 1/8W	
R673	OW07-75102-50	C RESISTOR	1 Kohm 1/8W	
CE600	OW06-71227-20	E CAPACITOR	220uF 16V	
CE601	OW06-71227-20	E CAPACITOR	220uF 16V	
CE602	OW06-75475-20	E CAPACITOR	4.7uF 50V	
CE603	OW06-75474-20	E CAPACITOR	0.47uF 50V	
CE610	OW06-75225-20	E CAPACITOR	2.2uF 50V	
CE612	OW06-75225-20	E CAPACITOR	2.2uF 50V	
CE613	OW06-75225-20	E CAPACITOR	2.2uF 50V	
CE619	OW06-71227-20	E CAPACITOR	220uF 16V	
CE620	OW06-71227-20	E CAPACITOR	220uF 16V	
CE623	OW06-71227-20	E CAPACITOR	220uF 16V	
CF600	OW09-50107-71	CERAMIC FILTER	LT10.7 MHz	
CF601	OW09-50107-71	CERAMIC FILTER	LT10.7 MHz	
CF602	OW09-50107-71	CERAMIC FILTER	LT10.7 MHz	
CF603	OW09-50450-89	CERAMIC FILTER	AHCFM2-450BL	
CN601	OW20-21130-80	CONNECTOR	13P	
FMANT	OW12-00007-82	FM ANTENNA	FM 75 ohm Antenna TC-103	
FMPAD	OW00-00505-80	PAD	TunerPad ENV17105G1	
IFT600	OW08-74077-80	IFT COIL	7 mm	
IFT601	OW08-74077-80	IFT COIL	7 mm	
IFT602	OW08-71495-80	IFT COIL	7 mm	
IFT603	OW08-12179-80	IFT COIL	AHK7-864364NP	
IFT604	OW08-87630-80	AM ANT COIL	0A10-876 305NP	
IFT605	OW08-73995-80	FM DET COIL	7 mm 114 KHz	
IFT606	OW08-75325-80	FM DET COIL	7 mm LKHC-865325NP	
J601	OW12-00201-00	AM ANT SOCKET	WP2-2B	
JW617	OW07-76000-50	C RESISTOR	0 ohm 1/8W	
JW629	OW07-76000-50	C RESISTOR	0 ohm 1/8W	
XT601	OW04-07200-80	CRYSTAL	7.2MHz	
XXXXX	OW29-63050-80	MESH WIRE RING	L=50 For Tuner Pad	
XXXXX	OW32-65080-80	SHIELDING WIRE	P4 GND to GND	
XXXXX	OW08-04344-88	FERRITE CORE	T-25 X 15 X 10	
XXXXX	OW11-01002-02	TUNER PCB		

<MEMO>

Packing materials and accessories parts list

Block No. M 3 M M



Packing and Accessories (B E EN ver.)

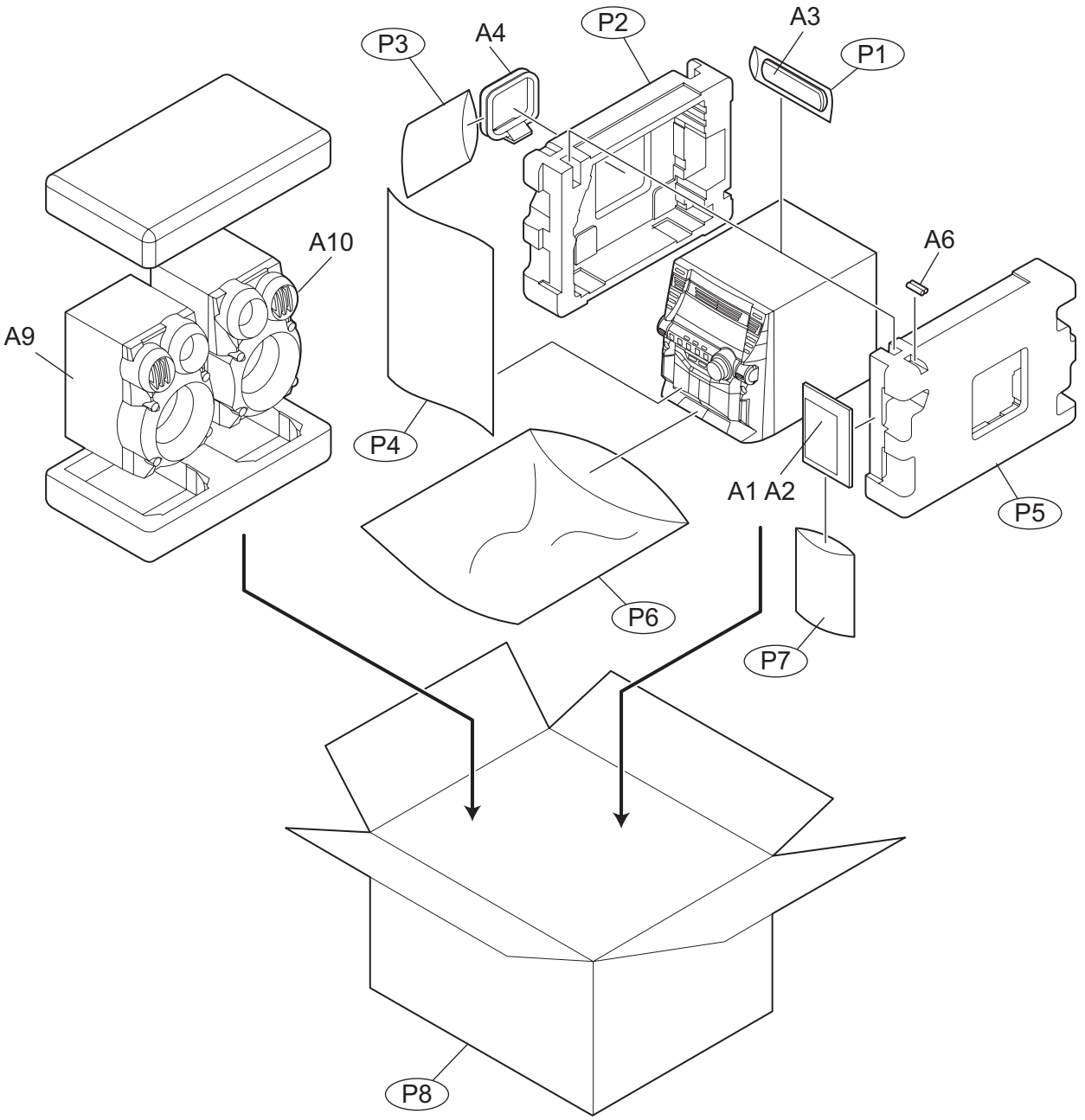
Block No. [M][3][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	A 1	OW88-01002-04	INST BOOK	LVT1251-003A ENG	B
	A 1	OW88-01002-00	INST BOOK	LVT1251-004A GER FRE DUT	E
	A 1	OW88-01002-06	INST BOOK	LVT1251-005A GER FRE SPA ITA SWE FIN DAN	EN
	A 2	OW88-01001-19	WARRANTY CARD	BT-54023-1	
	A 3	OWRM-SMXKB1A	REMOTE UNIT		
	A 4	OW23-04910-81	AM ANT LOOP		
	A 5	OW29-21400-80	FM ANT		E,EN
	A 6	----------	BATTERY	(x2)	
	A 7	OW88-00031-80	SAFETY INST	E43486-340B	B
	A 8	OW88-30000-83	USER CARD	VNA3000-204	B
	A 9	MXKB1E-SPBOX-L	SPEAKER BOX L	OW00-01001-12	
	A 10	MXKB1E-SPBOX-R	SPEAKER BOX R	OW00-01001-12	
	P 1	OW85-00025-81A	POLY BAG		
	P 2	OW86-01001-00	POLYFOAM	LEFT	
	P 3	OW85-90710-84	POLY BAG		
	P 4	OW81-01001-04	SHEET SPONGE		
	P 5	OW86-01001-01	POLYFOAM	RIGHT	
	P 6	OW85-92434-40	POLY BAG		
	P 7	OW85-91014-82	POLY BAG		
	P 8	OW89-01001-20	CARTON BOX		

Packing materials and accessories parts list

Block No. M 4 M M

EV Ver.



Packing and Accessories (EV ver.)

Block No. [M][4][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	A 1	OW88-01002-07	INST BOOK	LVT1251-006A CZE POL HUN RUS	
	A 2	OW88-01001-18	WARRANTY CARD	BT-54023-1	KB1
	A 2	OW88-01002-12	WARRANTY CARD	BT-54023-1	KB22
	A 3	OWRM-SMXKB1A	REMOTE UNIT		KB1
	A 3	OWRM-SMXKB2A	REMOTE UNIT		KB22
	A 4	OW23-04910-81	AM ANT LOOP		
	A 6	----------	BATTERY	(x2)	
	A 9	MXKB1EV-SPBOX-L	SPEAKER BOX L	OW00-01001-11	KB1
	A 9	MXKB22EVSPBOX-L	SPEAKER BOX L	OW00-01002-05	KB22
	A 10	MXKB1EV-SPBOX-R	SPEAKER BOX R	OW00-01001-11	KB1
	A 10	MXKB22EVSPBOX-R	SPEAKER BOX R	OW00-01002-05	KB22
	P 1	OW85-00025-81A	POLY BAG		
	P 2	OW86-01001-00	POLYFOAM	LEFT	
	P 3	OW85-90710-84	POLY BAG		
	P 4	OW81-01001-04	SHEET SPONGE		
	P 5	OW86-01001-01	POLYFOAM	RIGHT	
	P 6	OW85-92434-40	POLY BAG		
	P 7	OW85-91014-82	POLY BAG		
	P 8	OW89-01002-05	CARTON BOX		KB1
	P 8	OW89-01002-10	CARTON BOX		KB22