

HCD-BX2/DX2/DX2B

SERVICE MANUAL

Ver 1.2 2001.07




Photo: HCD-BX2

US Model
Canadian Model
AEP Model
UK Model
HCD-BX2

E Model
HCD-DX2/DX2B
Australian Model
HCD-DX2

HCD-BX2/DX2/DX2B is the Amplifier,
CD player, Tape Deck and Tuner
section in HMC-BX2/DX2/DX2B.

Dolby noise reduction manufactured under license
from Dolby Laboratories Licensing Corporation.
“DOLBY” and the double-D symbol  are trade-
marks of Dolby Laboratories Licensing Corporation.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	EXL-M7
	Optical Pick-up Name	OPTIMA-7
Tape deck Section	Model Name Using Similar Mechanism	HCD-GRX20
	Tape Transport Mechanism Type	CWL-44-FR

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS: (U.S.A. model only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

with 6 ohm loads both channels driven, from
120 – 10,000 Hz; rated 60 watts per channel
minimum RMS power, with no more than
10% total harmonic distortion from
250 milliwatts to rated output.

Amplifier section

Canadian model:

Continuous RMS power output
50 + 50 watts
(6 ohms at 1 kHz,
10% THD)

European model:

DIN power output (Rated)
40 + 40 watts
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference)
50 + 50 watts
(6 ohms at 1 kHz,
10% THD)

Music power output (Reference)
100 + 100 watts
(6 ohms at 1 kHz,
10% THD)

Other models:

The following measured at AC 110, 220 V 60 Hz:
DIN power output (Rated)

45 + 45 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
50 + 50 watts
(6 ohms at 1 kHz,
10% THD)

The following measured at AC 120, 240 V 60 Hz:
DIN power output (Rated)

50 + 50 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
60 + 60 watts
(6 ohms at 1 kHz,
10% THD)

Inputs
MD IN:
(phono jacks)

voltage 450 mV,
impedance 47 kilohms

Outputs
PHONES:
(stereo mini jack)
SPEAKER:
HCD-BX2:

accepts headphones of
8 ohms or more

HCD-DX2:

accepts impedance of 6 to
16 ohms
accepts impedance of 6 to
16 ohms

CD player section

System

Compact disc and digital
audio system
Semiconductor laser
($\lambda=780\text{nm}$)
Emission duration:

Laser output

continuous
Max. 44.6 μW *
*This output is the value
measured at a distance of
200 mm from the
objective lens surface on
the Optical Pick-up Block
with 7 mm aperture.
780 – 790 nm
20 Hz – 20 kHz (± 0.5 dB)
More than 90 dB
More than 90 dB
CD OPTICAL DIGITAL OUT
(Square optical connector jack, rear panel)
Wavelength
660 nm
Output Level
–18 dBm

Wavelength

Frequency response

Signal-to-noise ratio

Dynamic range

CD OPTICAL DIGITAL OUT

(Square optical connector jack, rear panel)

Wavelength

Output Level

Tape player section

Recording system

4-track 2-channel stereo
40 – 13,000 Hz (± 3 dB),
using Sony TYPE I
cassette

Frequency response

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range 87.5 – 108.0 MHz
Antenna FM lead antenna
Antenna terminals 75 ohm unbalanced
Intermediate frequency 10.7 MHz

AM tuner section

Tuning range
Pan-American model: 530 – 1,710 kHz
(with the interval set at
10 kHz)
531 – 1,710 kHz
(with the interval set at
9 kHz)

European and Middle Eastern models:
531 – 1,602 kHz
(with the interval set at
9 kHz)

Other models:
531 – 1,602 kHz
(with the interval set at
9 kHz)
530 – 1,710 kHz
(with the interval set at
10 kHz)

Antenna AM loop antenna
Antenna terminals External antenna terminal
Intermediate frequency 450 kHz

– Continued on next page –

MINI HiFi COMPONENT SYSTEM

9-929-070-13

2001G0500-1

© 2001.7

Sony Corporation

Home Audio Company

Shinagawa Tec Service Manual Production Group

SONY®

General

Power requirements
North American model: 120 V AC, 60 Hz
European model: 230 V AC, 50/60 Hz
Australian model: 220 – 240 V AC, 50/60 Hz
Mexican model: 120 V AC, 50/60 Hz
Other models: 110 – 120 V or 220 – 240 V
AC, 50/60 Hz
Adjustable with voltage
selector

Power consumption
U.S.A. model: 110 watts
Canadian model: 120 watts
European model: 105 watts
Other model: 120 watts

Dimensions (w / h / d) Approx. 280 x 325 x 418 mm

Mass
U.S.A. model: Approx. 8.1 kg
Canadian model: Approx. 8.1 kg
European model: Approx. 8.2 kg
Other model: Approx. 8.3 kg



Supplied accessories: AM loop antenna (1)
FM lead antenna (1)
Remote Commander (1)

Design and specifications are subject to change
without notice.


TABLE OF CONTENTS

1. SERVICING NOTES	3
2. GENERAL	
Location of Controls	4
Setting the Time	5
3. DISASSEMBLY	6
4. DIAGRAMS	
4-1. Note for Printed Wiring Boards and Schematic Diagrams	13
4-2. Schematic Diagram – CD Section (1/4) –	14
4-3. Schematic Diagram – CD Section (2/4) –	15
4-4. Schematic Diagram – CD Section (3/4) –	16
4-5. Schematic Diagram – CD Section (4/4) –	17
4-6. Printed Wiring Boards – CD Section –	18
4-7. Printed Wiring Boards – MAIN/TR Boards –	19
4-8. Schematic Diagram – MAIN Board (1/4) –	20
4-9. Schematic Diagram – MAIN Board (2/4) –	21
4-10. Schematic Diagram – MAIN Board (3/4) –	22
4-11. Schematic Diagram – MAIN (4/4)/TR Boards –	23
4-12. Schematic Diagram – PANEL Section (1/3) –	24
4-13. Schematic Diagram – PANEL Section (2/3) –	25
4-14. Schematic Diagram – PANEL Section (3/3) –	26
4-15. Printed Wiring Board – PANEL Section –	27
4-16. Printed Wiring Board – AMP Board (US, Canadian, AEP, UK, Australian models) –	28
4-17. Schematic Diagram – AMP Board (US, Canadian, AEP, UK, Australian models) –	29
4-18. Printed Wiring Boards – AMP (E model)/AC/FUSE Boards –	30
4-19. Schematic Diagram – AMP (E model)/AC/FUSE Boards –	31
5. EXPLODED VIEWS	37
6. ELECTRICAL PARTS LIST	43

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED
LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS
AND IN THE PARTS LIST ARE CRITICAL TO SAFE
OPERATION. REPLACE THESE COMPONENTS WITH
SONY PARTS WHOSE PART NUMBERS APPEAR AS
SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-
LISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE 
SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE
DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ
DE FONCTIONNEMENT. NE REMPLACER CES COM-
POSANTS QUE PAR DES PIÈCES SONY DONT LES
NUMÉROS SONT DONNÉS DANS CE MANUEL OU
DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

CAUTION

Use of controls or adjustments or performance of procedures
other than those specified herein may result in hazardous ra-
diation exposure.

This appliance is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT MARKING is located on
the rear exterior.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

SECTION 1

SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on chip component replacement

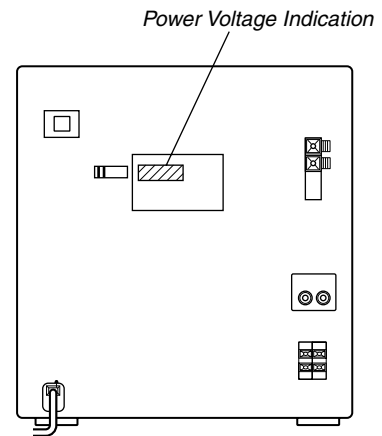
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

• MODEL IDENTIFICATION

– Rear Panel –

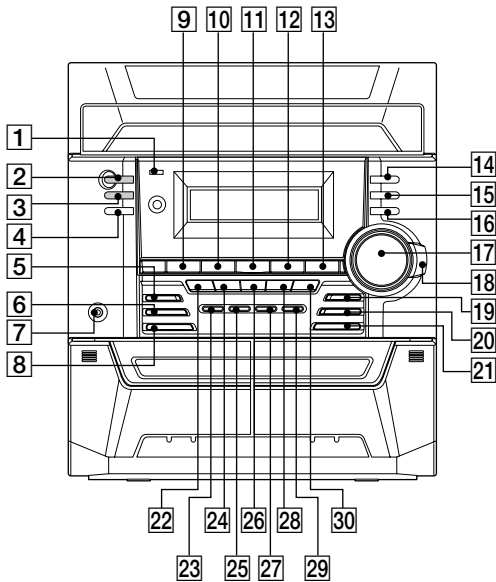


Model	Power Voltage Indication
US model	AC: 120 V ~ 60 Hz 110 W
Canadian model	AC: 120 V ~ 60 Hz 120 W
AEP, UK models	AC: 230 V ~ 50/60 Hz 105 W
Australian model	AC: 220 – 240 V ~ 50/60 Hz 120 W
Mexican model	AC: 110 – 120 V ~ 50/60 Hz 120 W
Other models	AC: 110 – 120 V/220 – 240 V ~ 50/60 Hz 120 W

SECTION 2 GENERAL

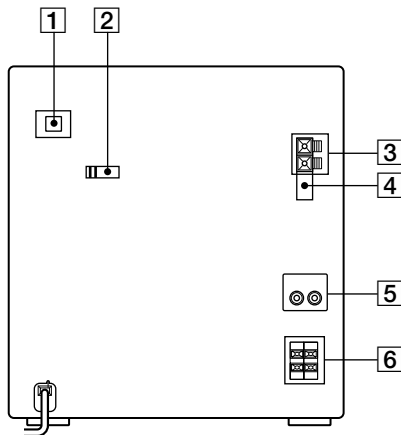
• LOCATION OF CONTROLS

– Front View –



- 1 TIMER indicator
- 2 STANDBY I/ button and indicator
- 3 DISPLAY button
- 4 SPECTRUM button
- 5 GROOVE button and indicator
- 6 FILE SELECT button
- 7 PHONES jack
- 8 ENTER button
- 9 – ◀ button
- 10 ■ button
- 11 ◀ ▶ button and indicator
- 12 || button
- 13 ▶▶ + button
- 14 PLAY MODE, DIRECTION button
- 15 REPEAT, STEREO/MONO button
- 16 EDIT, TUNER MEMORY button
- 17 VOLUME knob
- 18 ◀◀ ▶▶ button
- 19 REC button and indicator
- 20 REC PAUSE button and indicator
- 21 CD SYNC button
- 22 DISC SKIP EX-CHANGE button
- 23 MD button and indicator
- 24 DISC 1 button
- 25 TAPE A/B button and indicator
- 26 DISC 2 button
- 27 CD button and indicator
- 28 DISC 3 button
- 29 TUNER/BAND button and indicator
- 30 ▲ OPEN/CLOSE button

– Rear View –



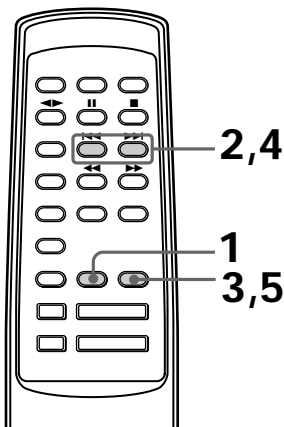
- 1 CD DIGITAL OUTPUT (OPTICAL) connector
- 2 VOLTAGE SELECTOR switch (E model)
- 3 AM ANTENNA terminals
- 4 FM ANTENNA jack or terminals
- 5 MD IN jacks
- 6 SPEAKER terminals

Step 2: Setting the time

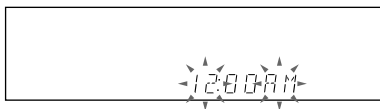
You must set the time before using the timer functions.

The clock uses a 24-hour system on the European model, and a 12-hour system on other models.

The 12-hour system is used for illustration purposes.



- 1** Press CLOCK/TIMER SET.
The hour indication flashes.



- 2** Press ◀◀ or ▶▶ repeatedly to set the hour.



- 3** Press ENTER.
The minute indication flashes.



- 4** Press ◀◀ or ▶▶ repeatedly to set the minute.

- 5** Press ENTER.
The clock starts working.

Tip

If you make a mistake, start over from step 1.

To change the time

The previous explanation shows how to set the time while the power is off. To change the time while the power is on, do the following:

- 1** Press CLOCK/TIMER SET.
- 2** Press ◀◀ or ▶▶ repeatedly to select SET CLOCK.
- 3** Press ENTER.
- 4** Perform steps 2 through 5 above.

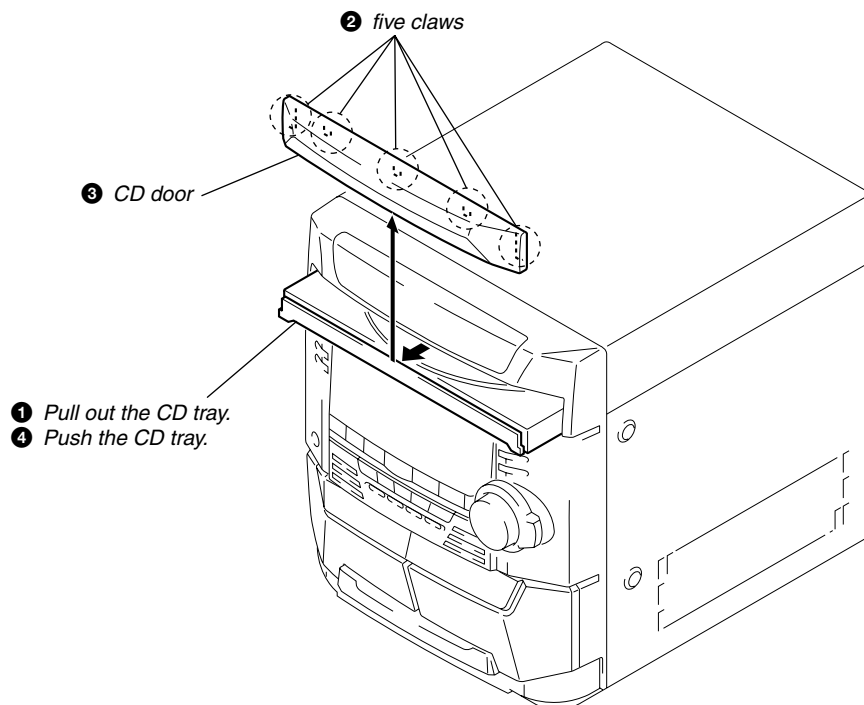
Note

The clock settings are canceled when you disconnect the power cord or if a power failure occurs.

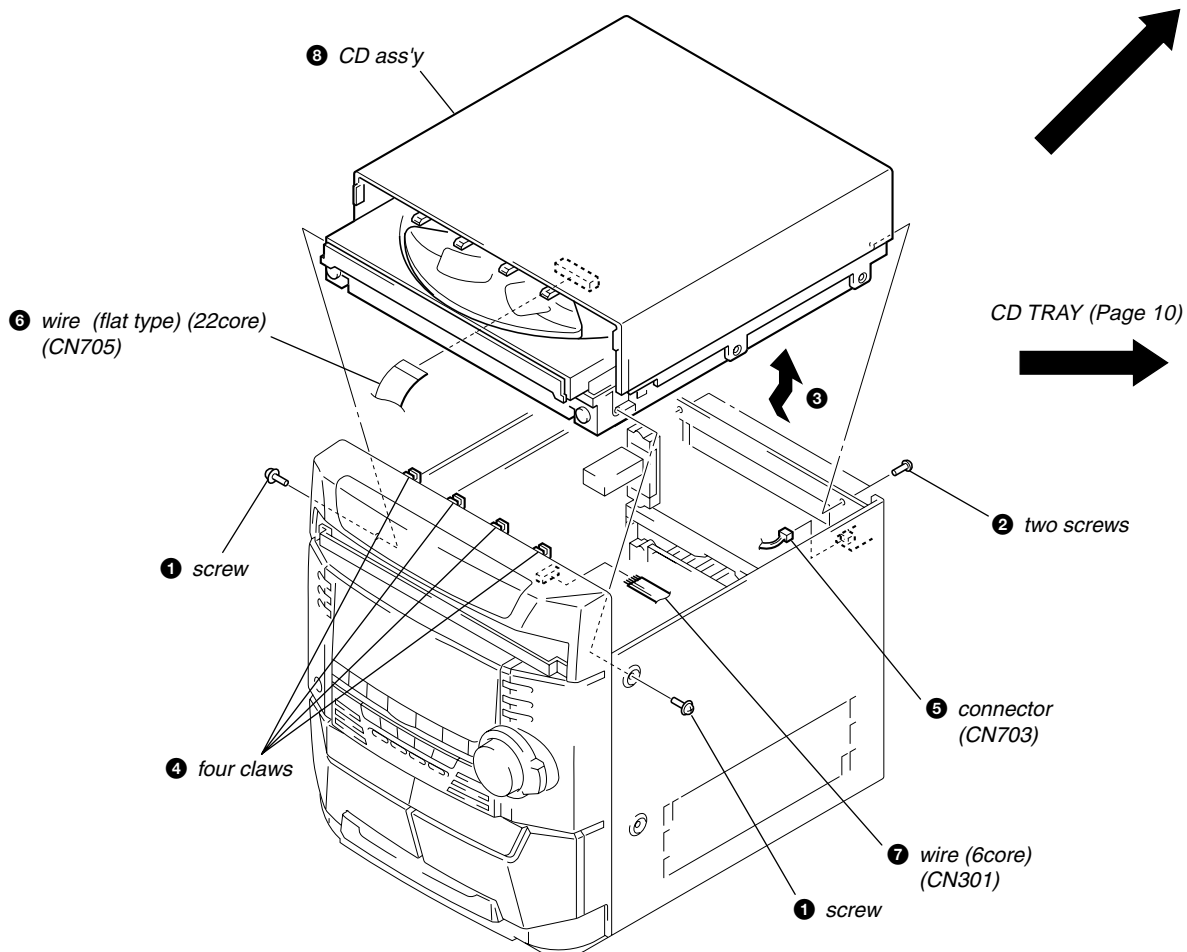
SECTION 3 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

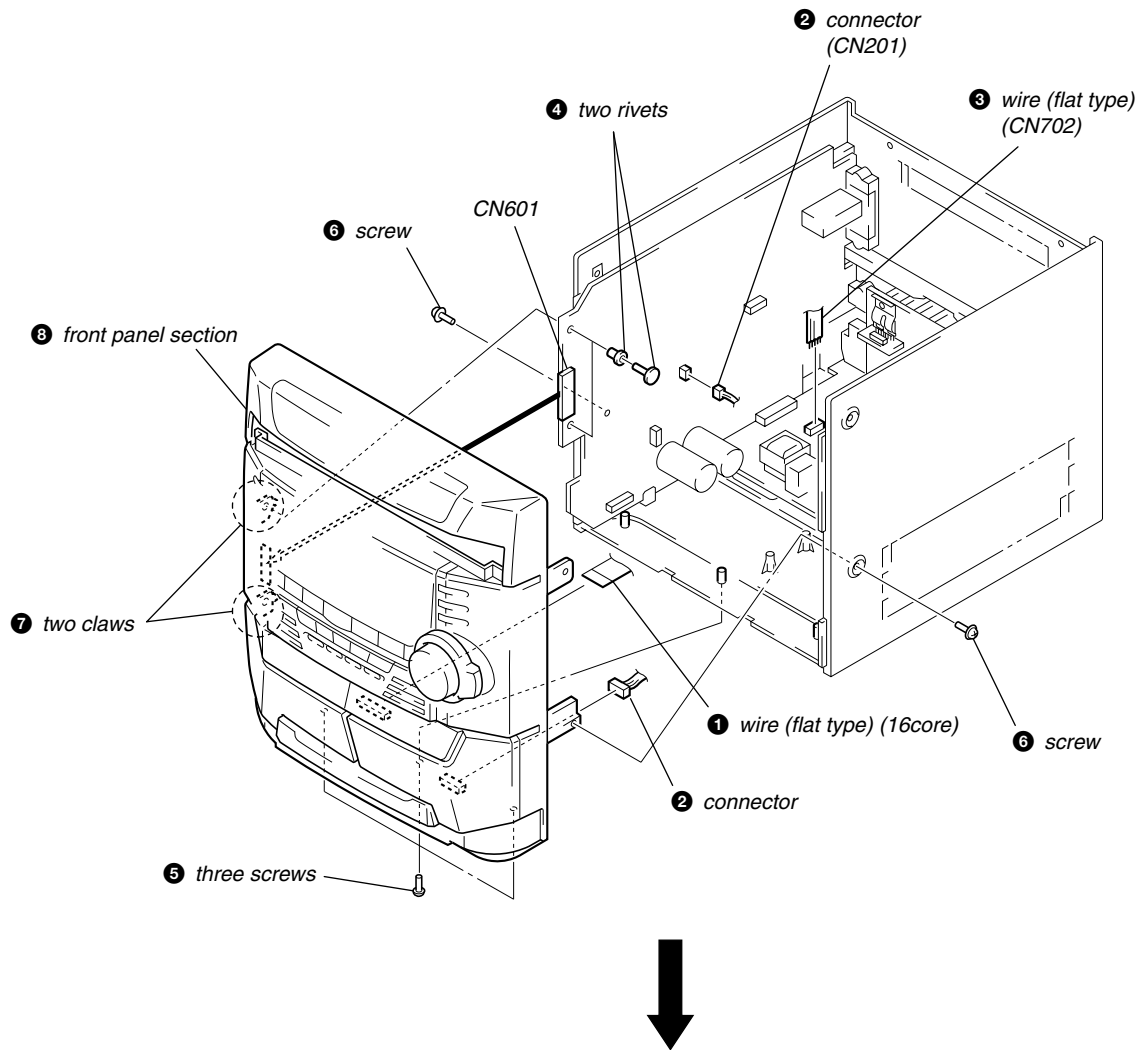
CD DOOR



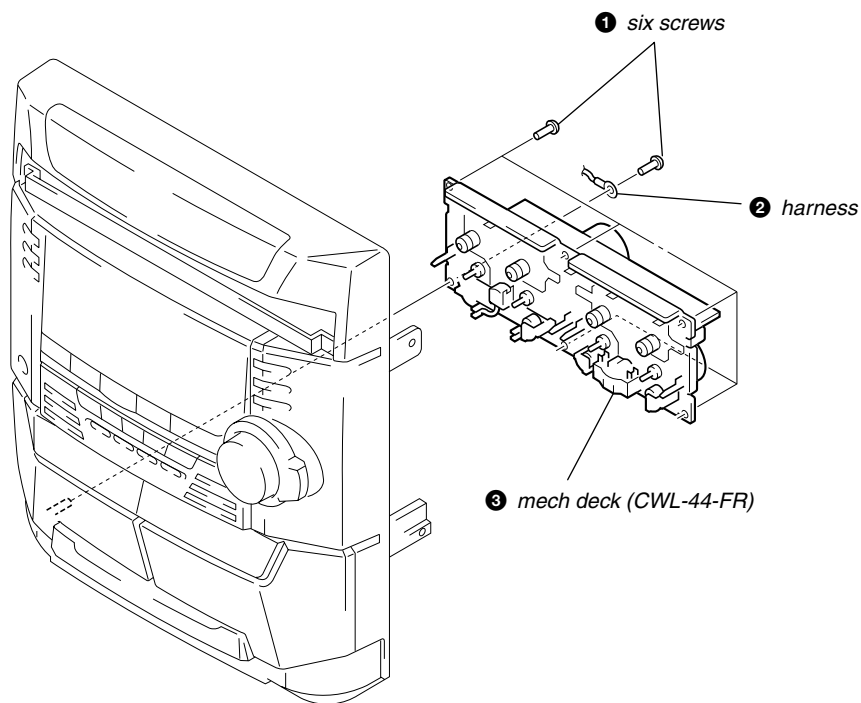
CD ASS'Y



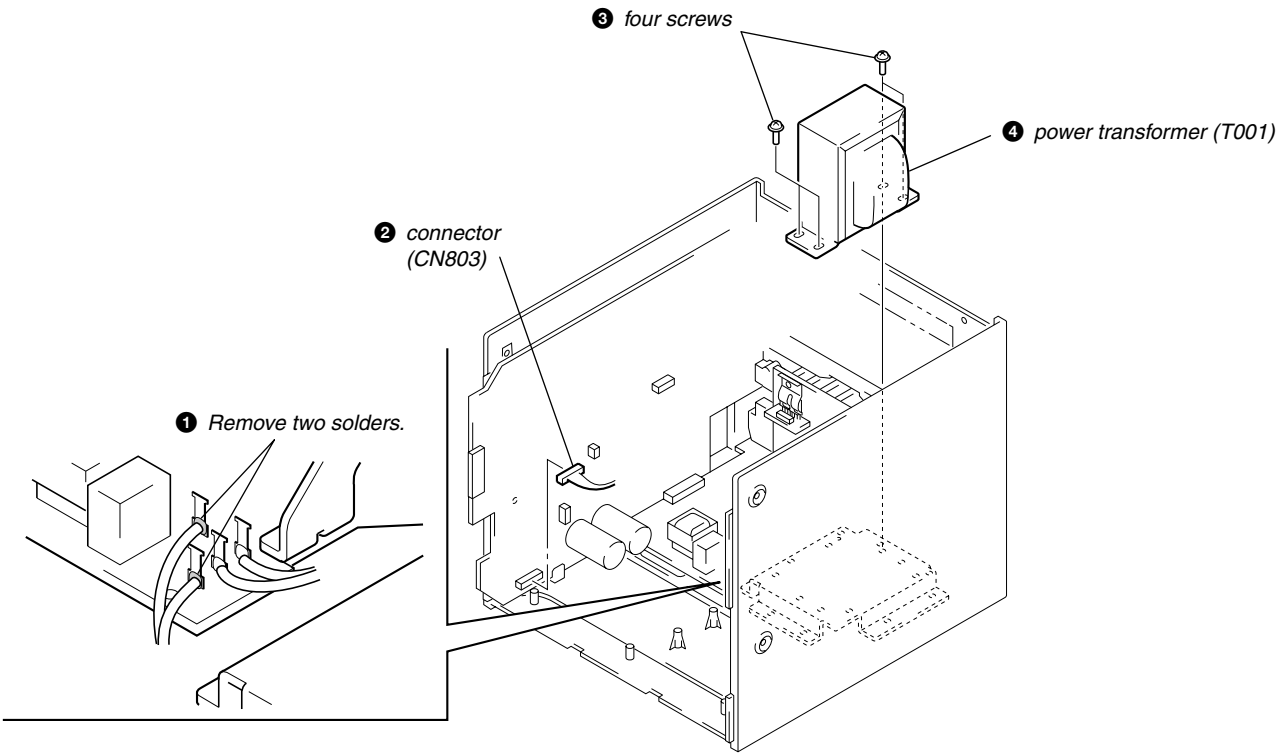
FRONT PANEL



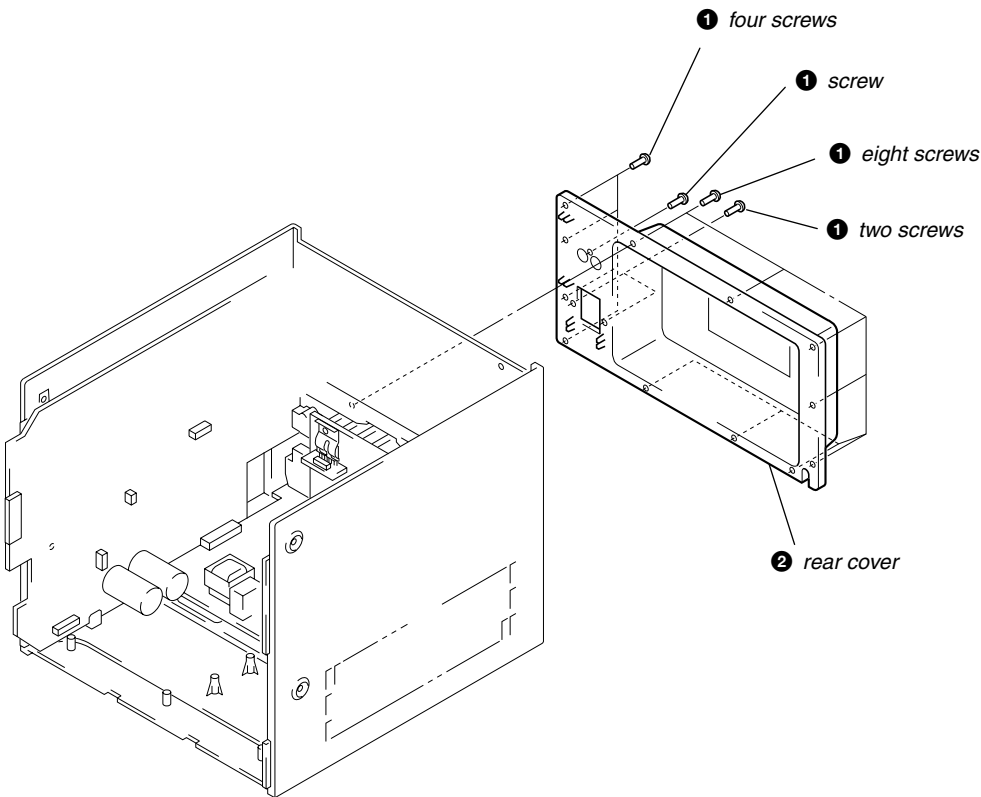
MECH DECK (CWL-44-FR)



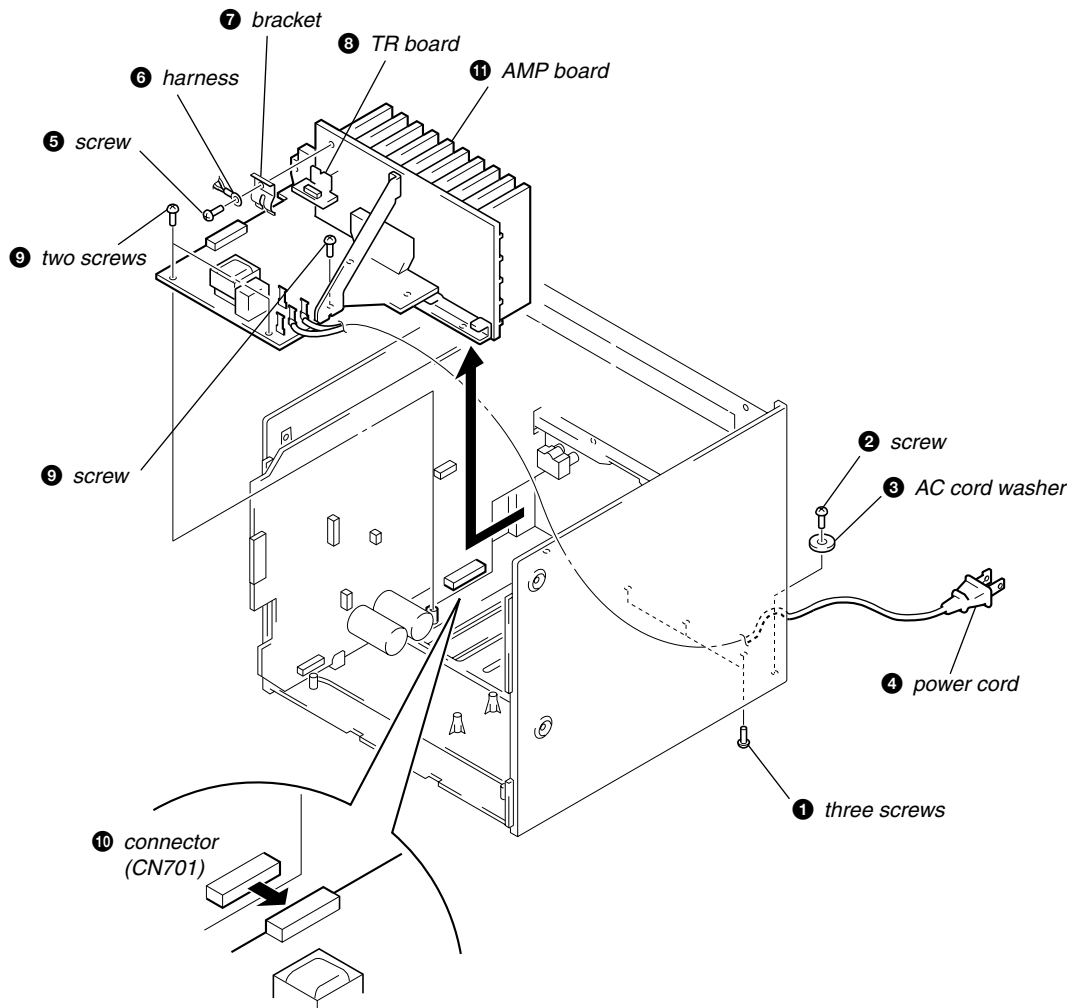
POWER TRANSFORMER (T001)



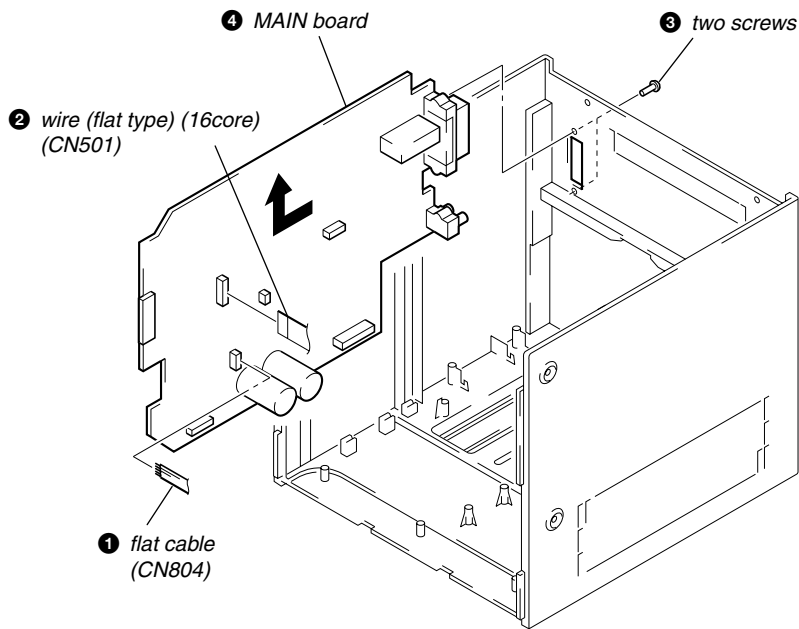
REAR COVER



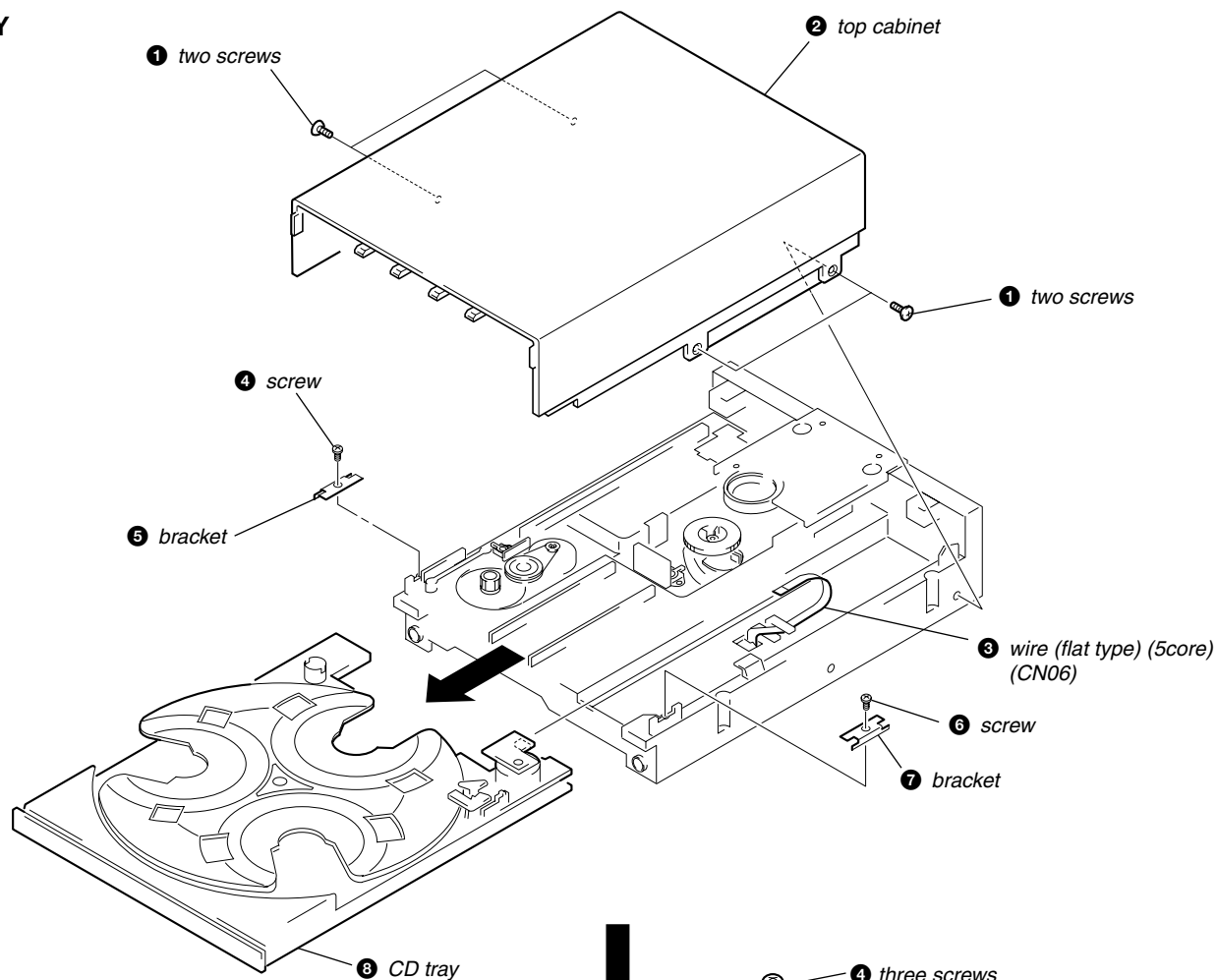
AMP BOARD



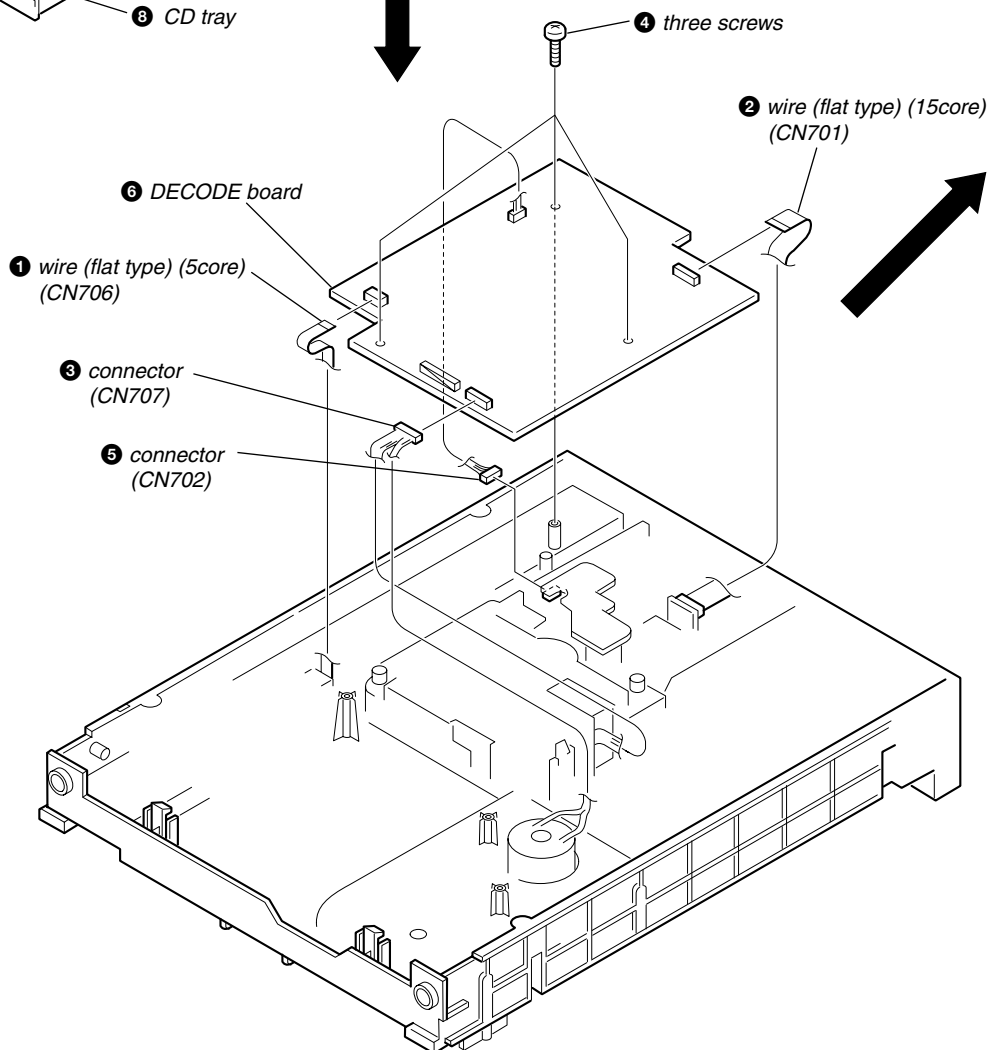
MAIN BOARD



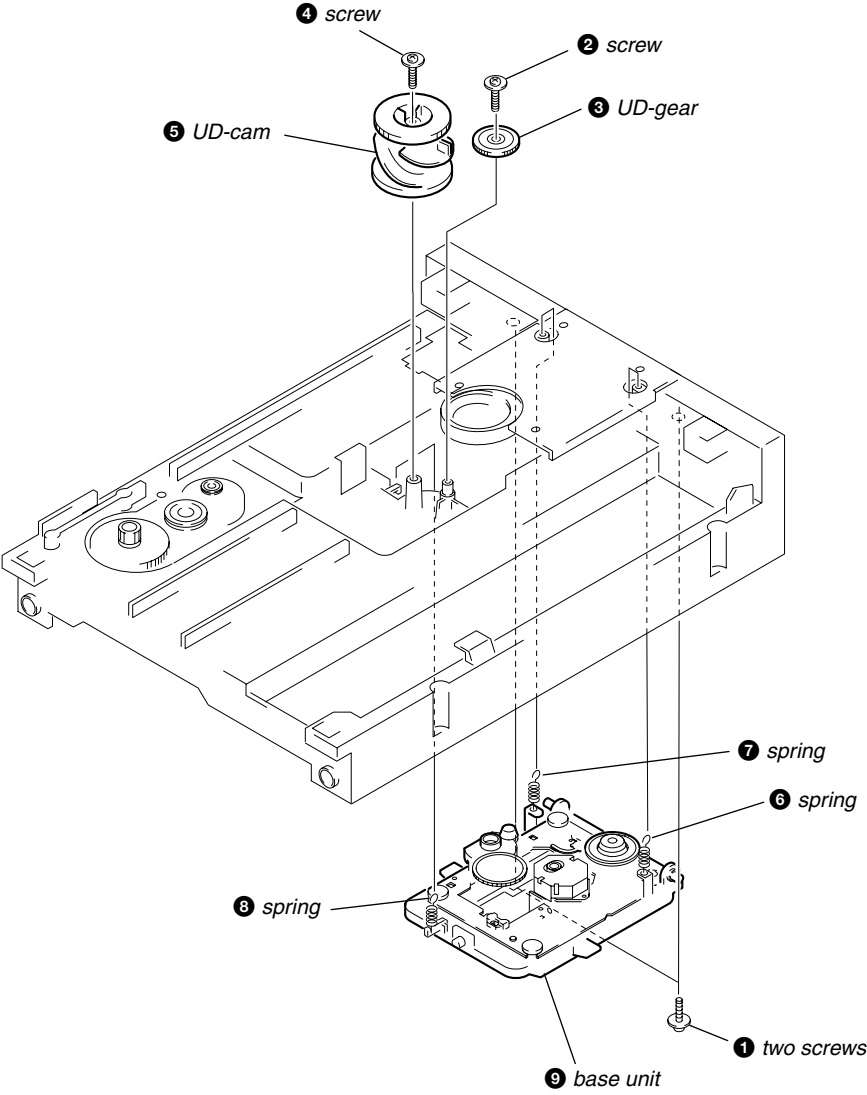
CD TRAY



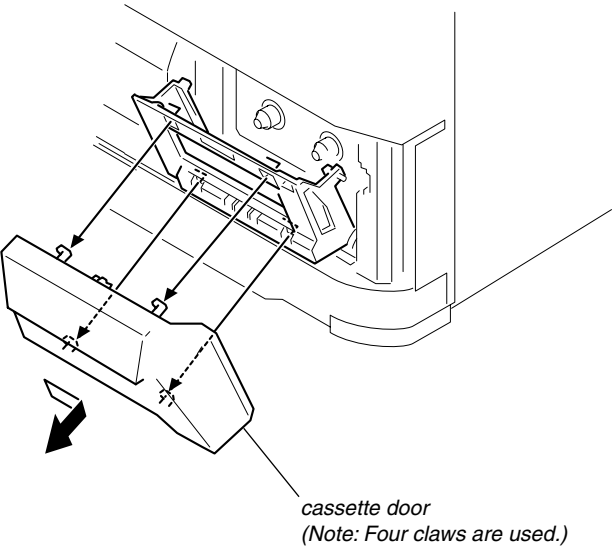
DECODE BOARD



BASE UNIT



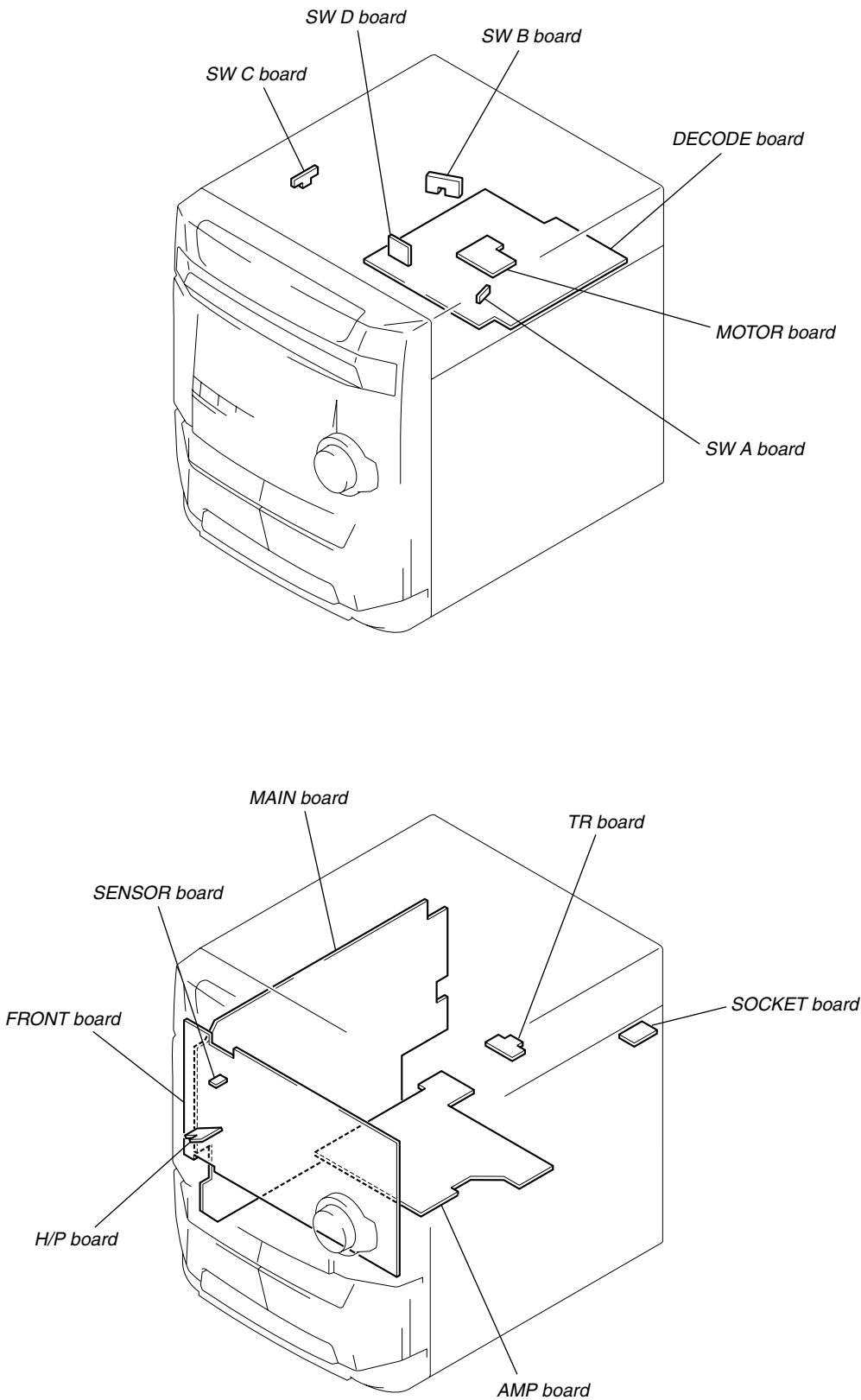
CASSETTE LID



MEMO

SECTION 4 DIAGRAMS

• Circuit Boards Location



4-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- : parts extracted from the conductor side.
- ▨ : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

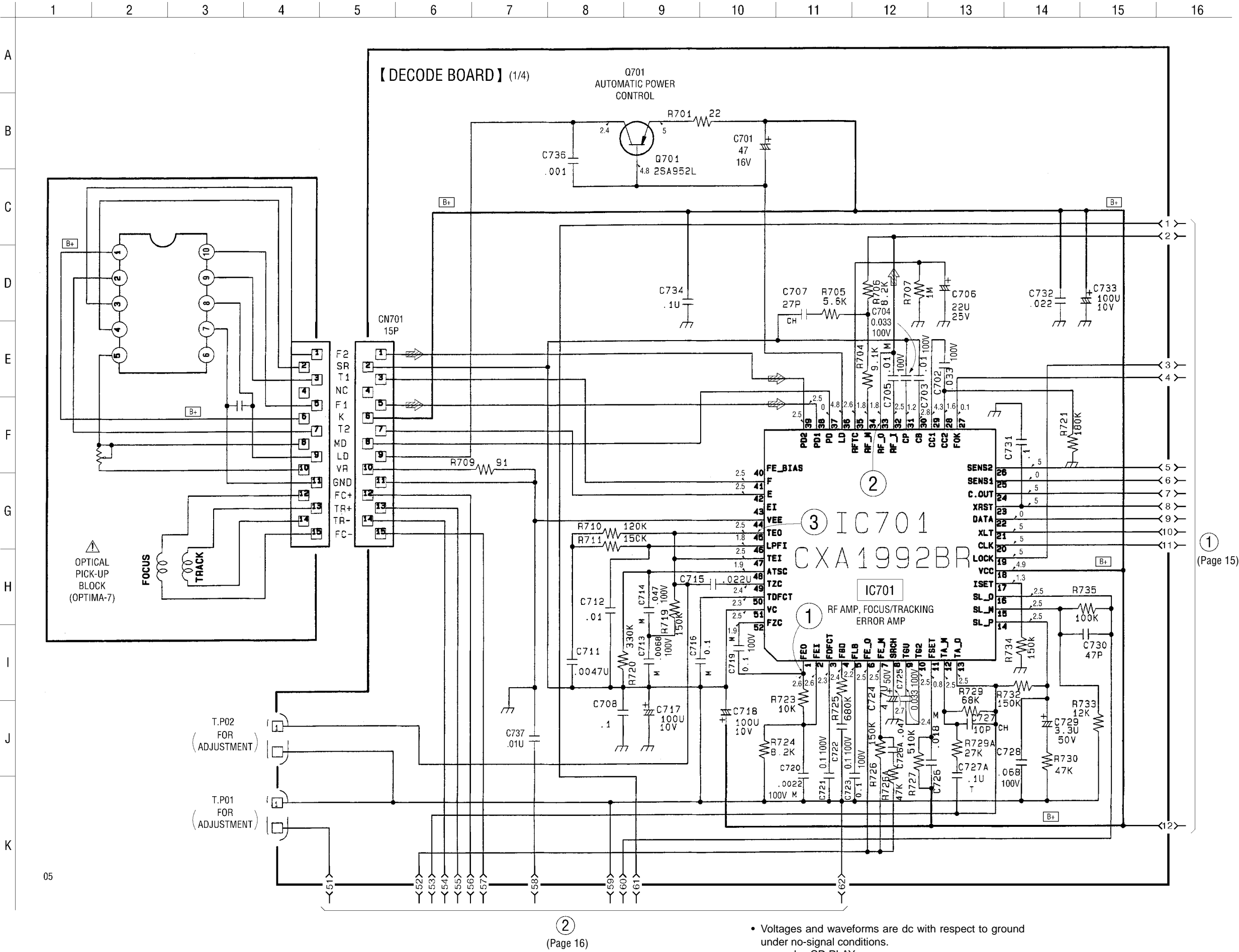
Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. U: μF , pF: $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- If a numeric value of capacitor is a decimal fraction, the preceding zero may be omitted.
(For example, .1 expresses 0.1)
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- : fusible resistor.
- : printed resistor.
- : panel designation.

<p>Note:</p> <p>The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.</p>	<p>Note:</p> <p>Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
---	--



- : B+ Line.
- : B- Line.
- : adjustment for repair.
- Voltagess are taken with a VOM (Input impedance 10 M Ω).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - : FM
 - : AM
 - : TAPE PLAY (DECK A)
 - : TAPE PLAY (DECK B)
 - : TAPE REC
 - : CD PLAY (ANALOG OUT)
 - : CD PLAY (DIGITAL OUT)
- Abbreviation
 - AUS : Australian model
 - CND : Canadian model


4-2. SCHEMATIC DIAGRAM – CD Section (1/4) – • See page 32 for Waveforms. • See page 32 for IC Block Diagrams.

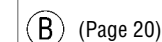


- Voltages and waveforms are dc with respect to ground under no-signal conditions.

no mark : CD PLAY

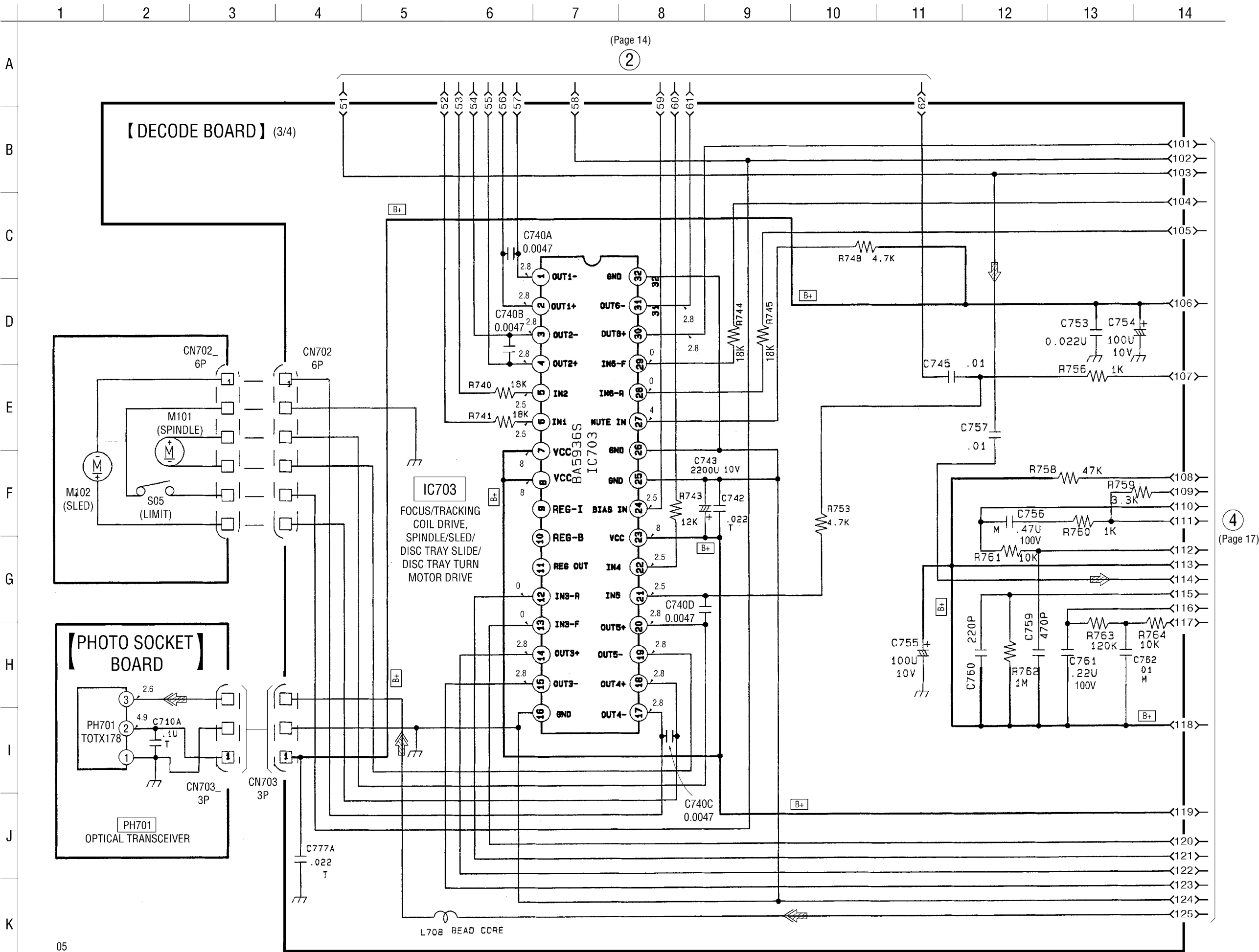
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

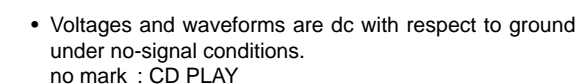


15

4-4. SCHEMATIC DIAGRAM – CD Section (3/4) –



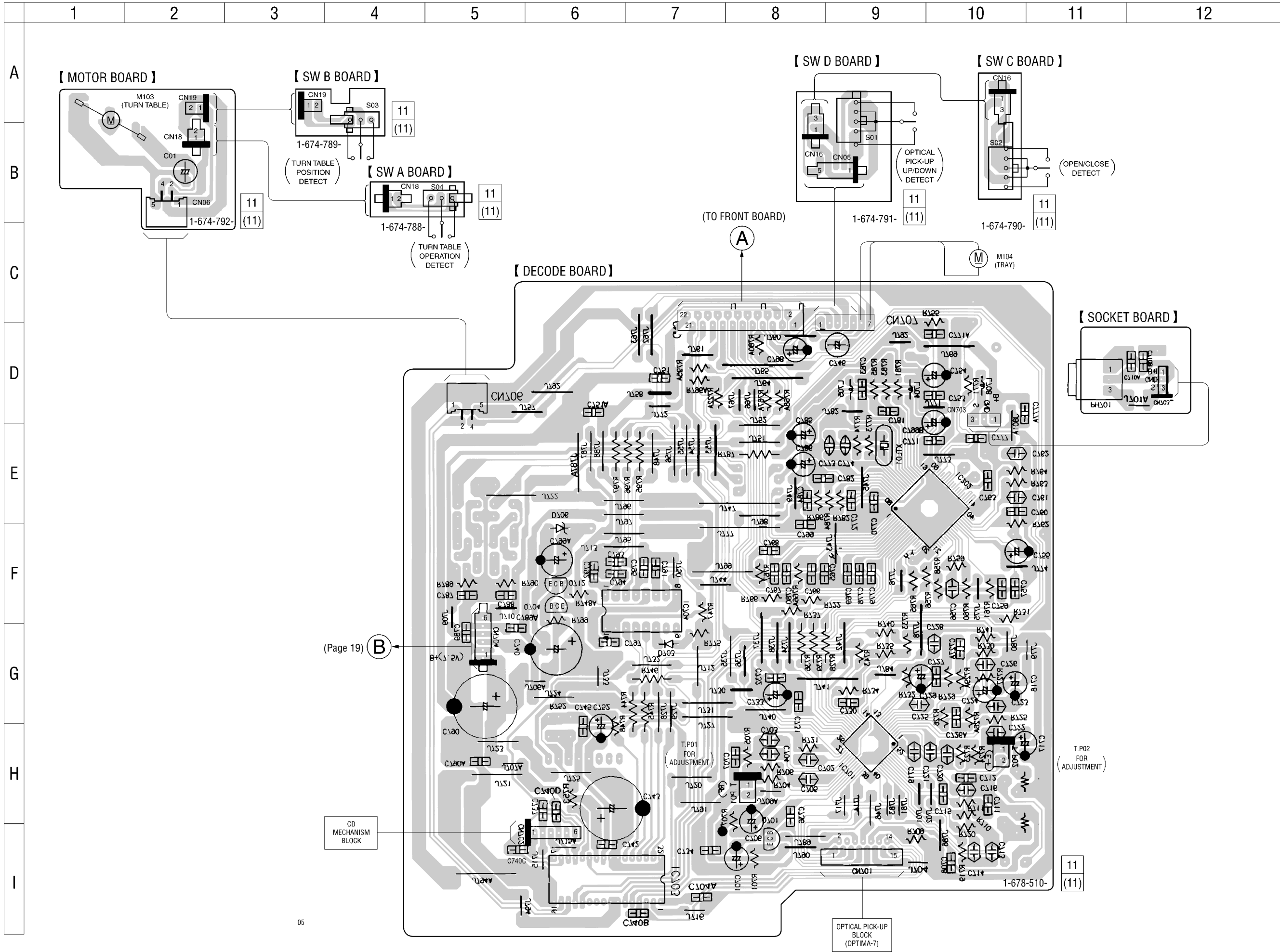
- Voltages are dc with respect to ground under no-signal conditions.
no mark : CD PLAY



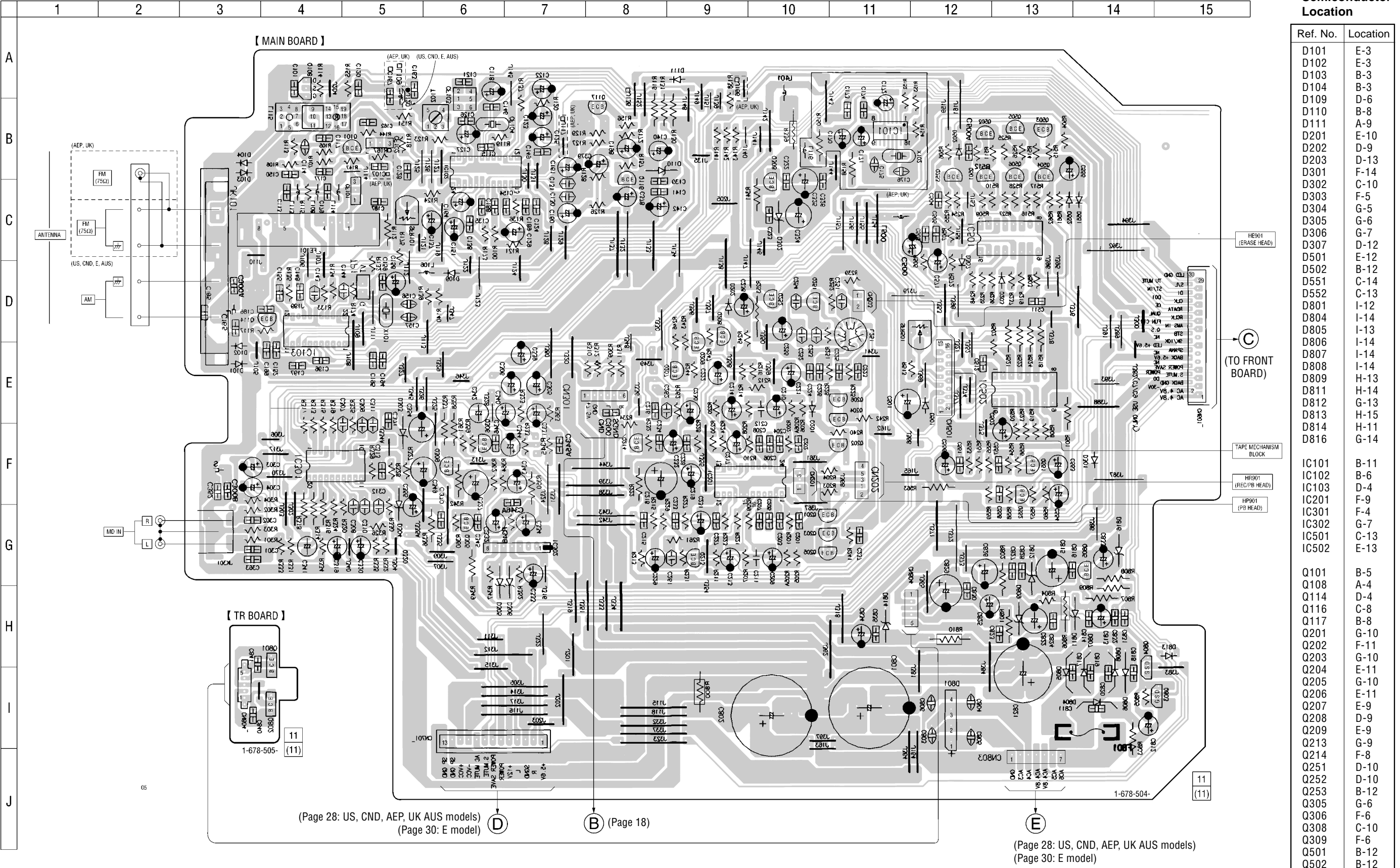
4-6. PRINTED WIRING BOARDS – CD Section – • See page 13 for Circuit Boards Location.

• Semiconductor Location

Ref. No.	Location
D703	G-7
D706	F-6
IC701	H-9
IC702	E-10
IC703	I-6
IC704	F-7
Q701	I-8
Q704	F-6
Q712	F-6
PH701	D-11

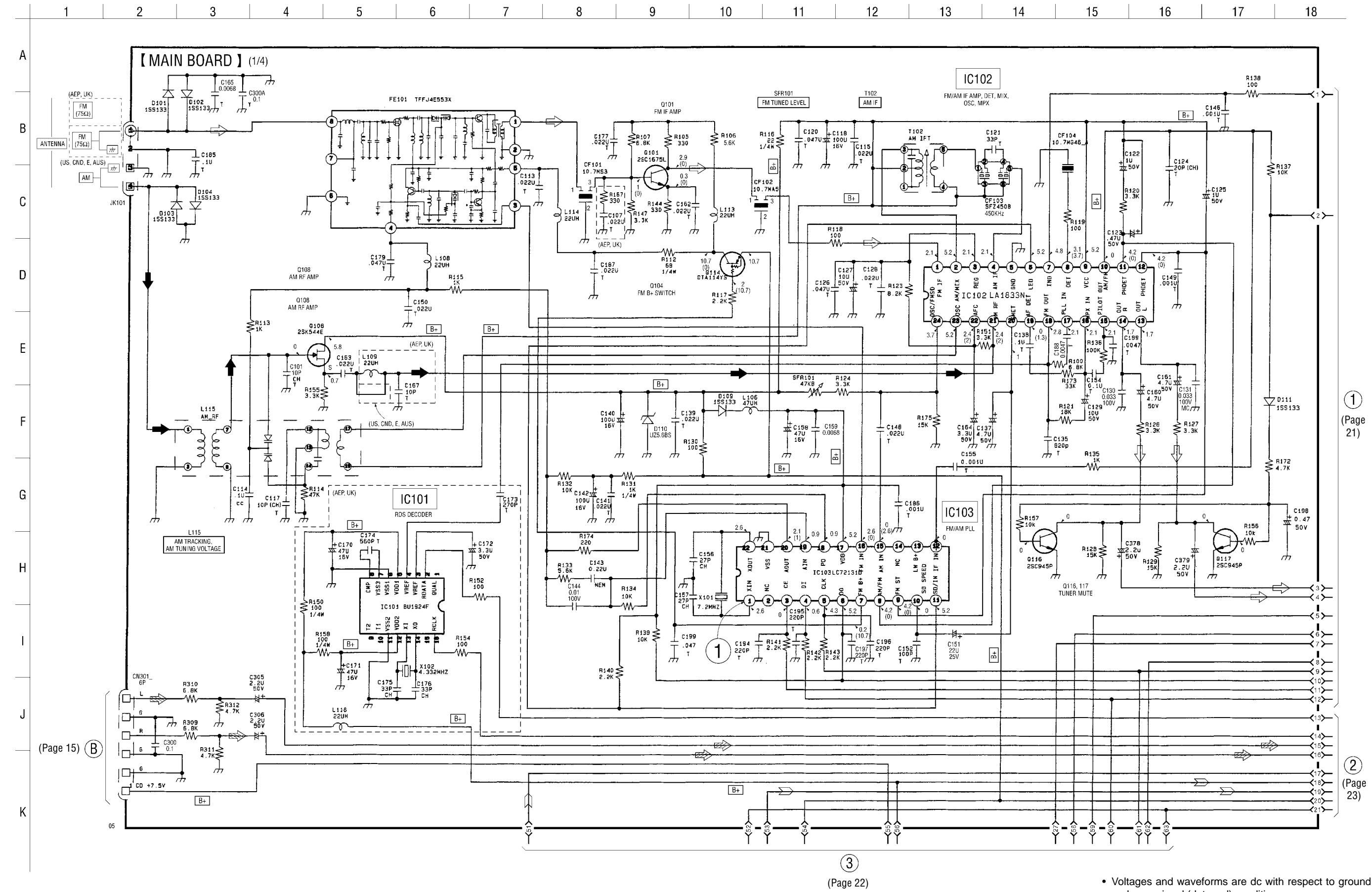


4-7. PRINTED WIRING BOARDS – MAIN/TR Boards – • See page 13 for Circuit Boards Location.



Semiconductor Location	
Ref. No.	Location
D101	E-3
D102	E-3
D103	B-3
D104	B-3
D109	D-6
D110	B-8
D111	A-9
D201	E-10
D202	D-9
D203	D-13
D301	F-14
D302	C-10
D303	F-5
D304	G-5
D305	G-6
D306	G-7
D307	D-12
D501	E-12
D502	B-12
D551	C-14
D552	C-13
D801	I-12
D804	I-14
D805	I-13
D806	I-14
D807	I-14
D808	I-14
D809	H-13
D811	H-14
D812	G-13
D813	H-15
D814	H-11
D816	G-14
IC101	B-11
IC102	B-6
IC103	D-4
IC201	F-9
IC301	F-4
IC302	G-7
IC501	C-13
IC502	E-13
Q101	B-5
Q108	A-4
Q114	D-4
Q116	C-8
Q117	B-8
Q201	G-10
Q202	F-11
Q203	G-10
Q204	E-11
Q205	G-10
Q206	E-11
Q207	E-9
Q208	D-9
Q209	E-9
Q213	G-9
Q214	F-8
Q251	D-10
Q252	D-10
Q253	B-12
Q305	G-6
Q306	F-6
Q308	C-10
Q309	F-6
Q501	B-12
Q502	B-12
Q503	B-13
Q504	B-13
Q505	B-13
Q506	B-13
Q551	F-13
Q552	F-13
Q801	H-4
Q802	I-4
Q803	I-15
Q804	I-14
Q805	G-14

4-8. SCHEMATIC DIAGRAM – MAIN Board (1/4) – • See page 32 for Waveforms.



(Page 15) (B)

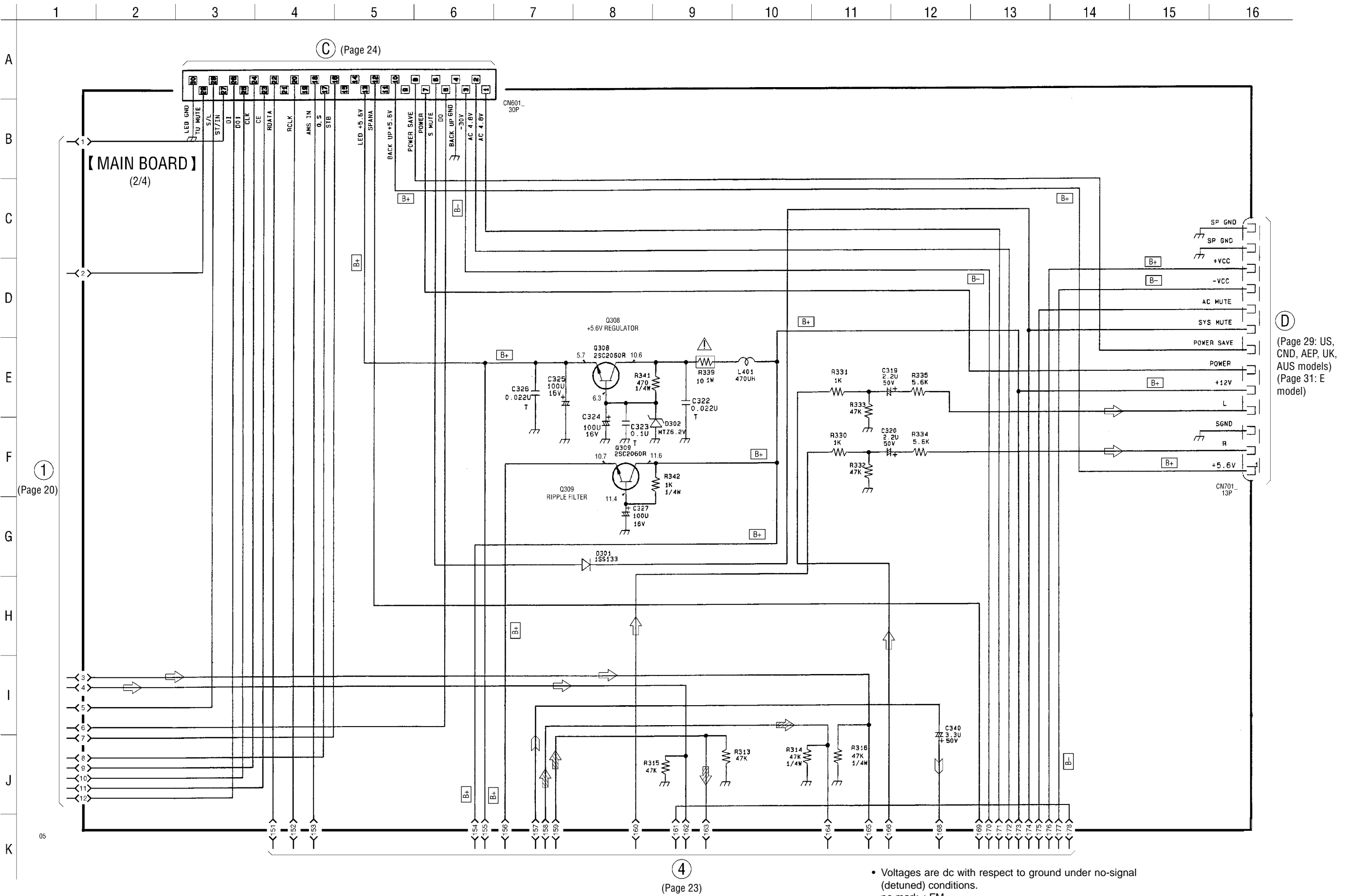
(Page 22)

(Page 21)

(Page 23)

• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
() : AM

4-9. SCHEMATIC DIAGRAM – MAIN Board (2/4) –



①
(Page 20)

③ (Page 24)

④
(Page 23)

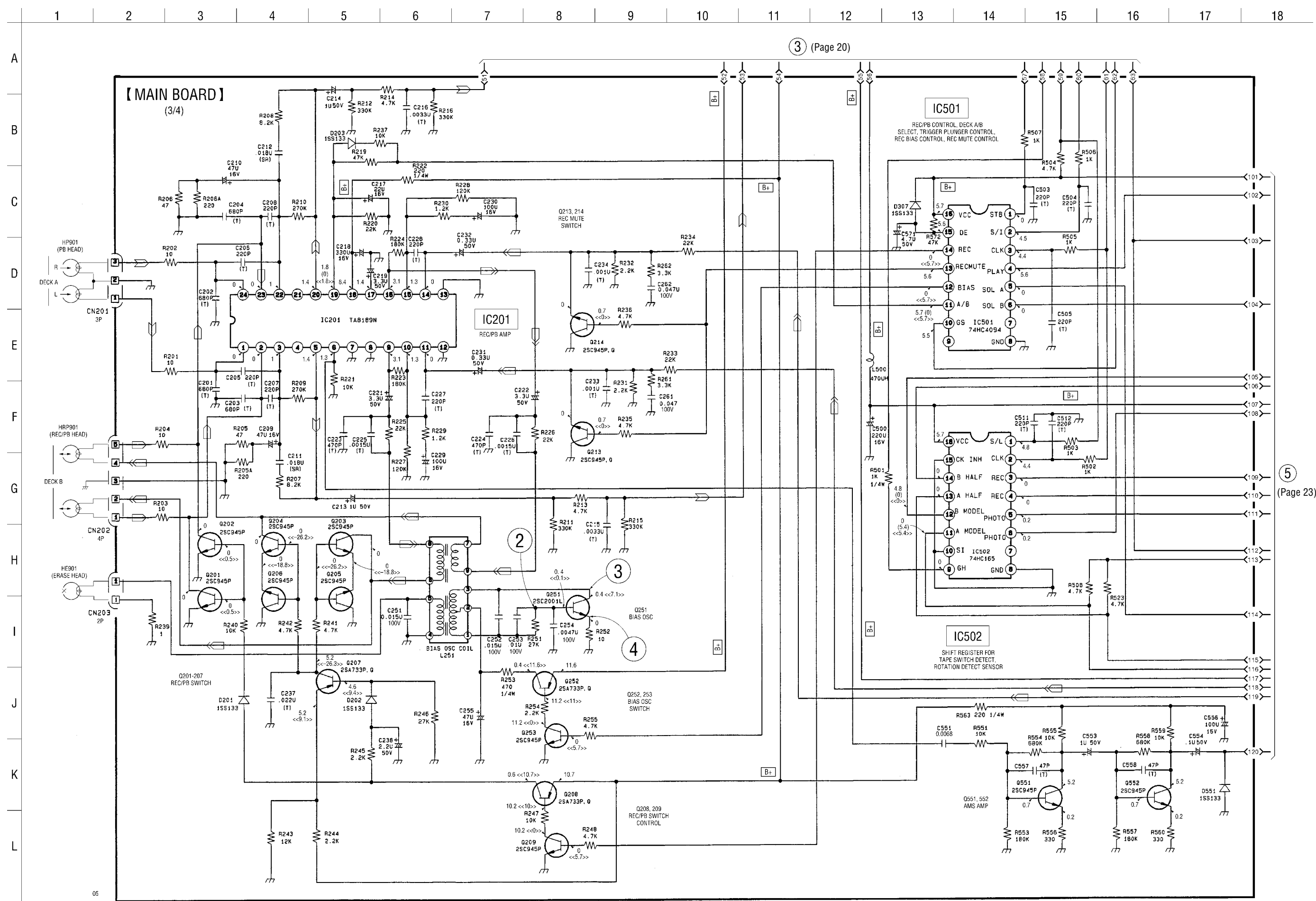
④
(Page 29: US, CND, AEP, UK, AUS models)
(Page 31: E model)

• Voltages are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

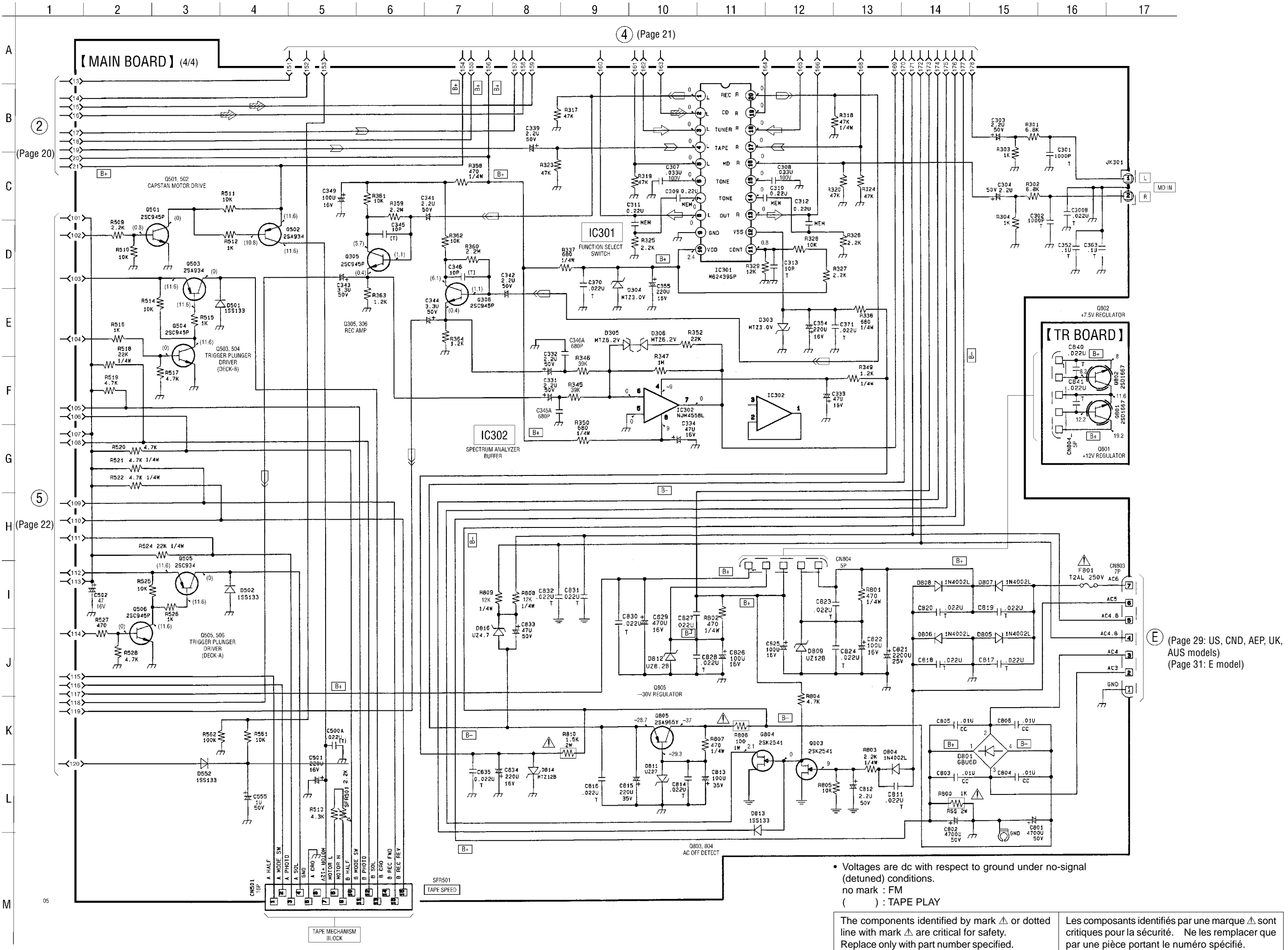
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-10. SCHEMATIC DIAGRAM – MAIN Board (3/4) – • See page 32 for Waveforms. • See page 32 for IC Block Diagrams.



• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark : TAPE PLAY (DECK A)
() : TAPE PLAY (DECK B)
《 》 : TAPE REC

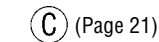
4-11. SCHEMATIC DIAGRAM – MAIN (4/4)/TR Boards –



• Voltages are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
() : TAPE PLAY

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



2
(Page 26)

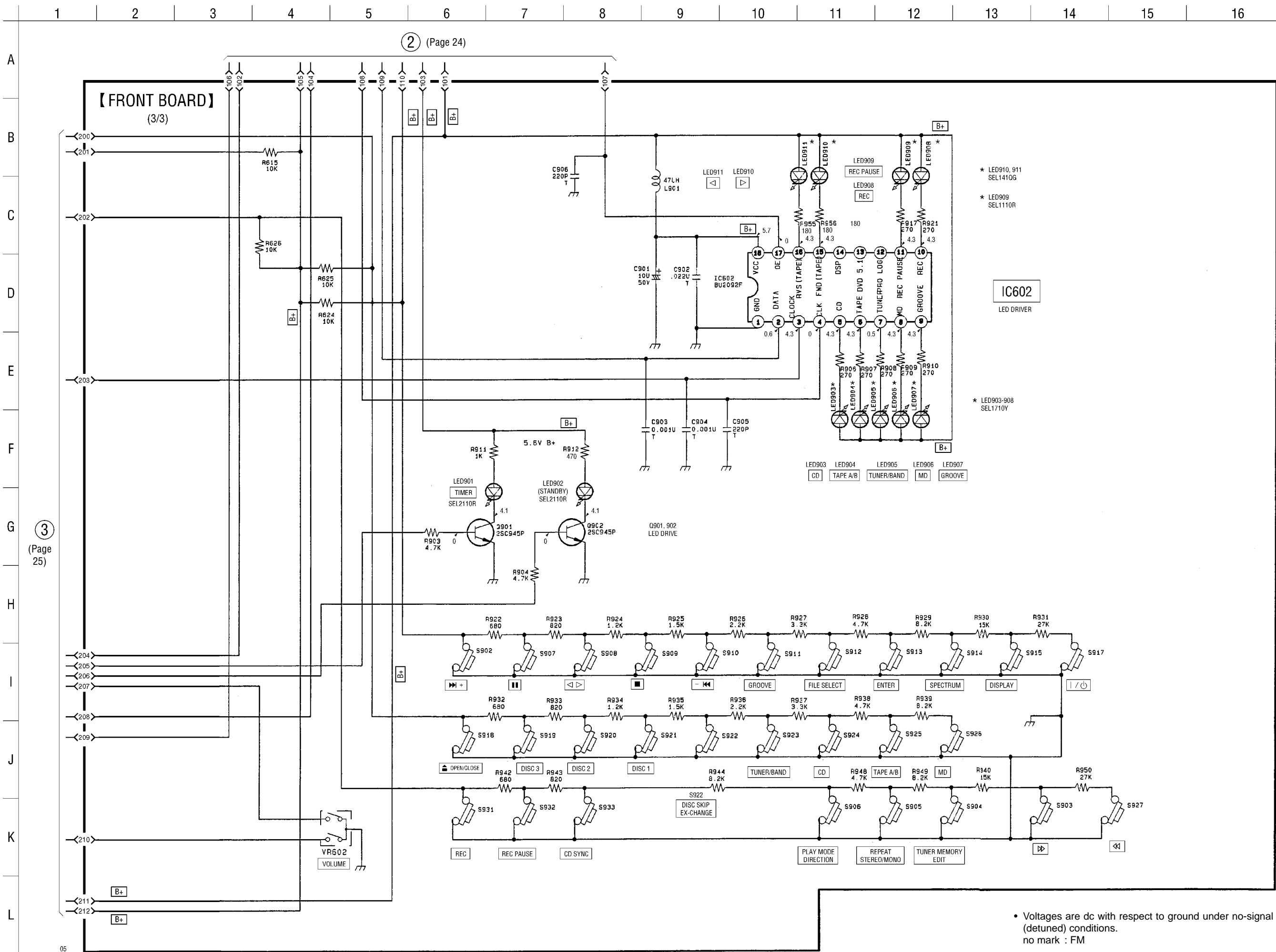
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM



(Page 15)

- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
() : CD PLAY

4-14. SCHEMATIC DIAGRAM – PANEL Section (3/3) –

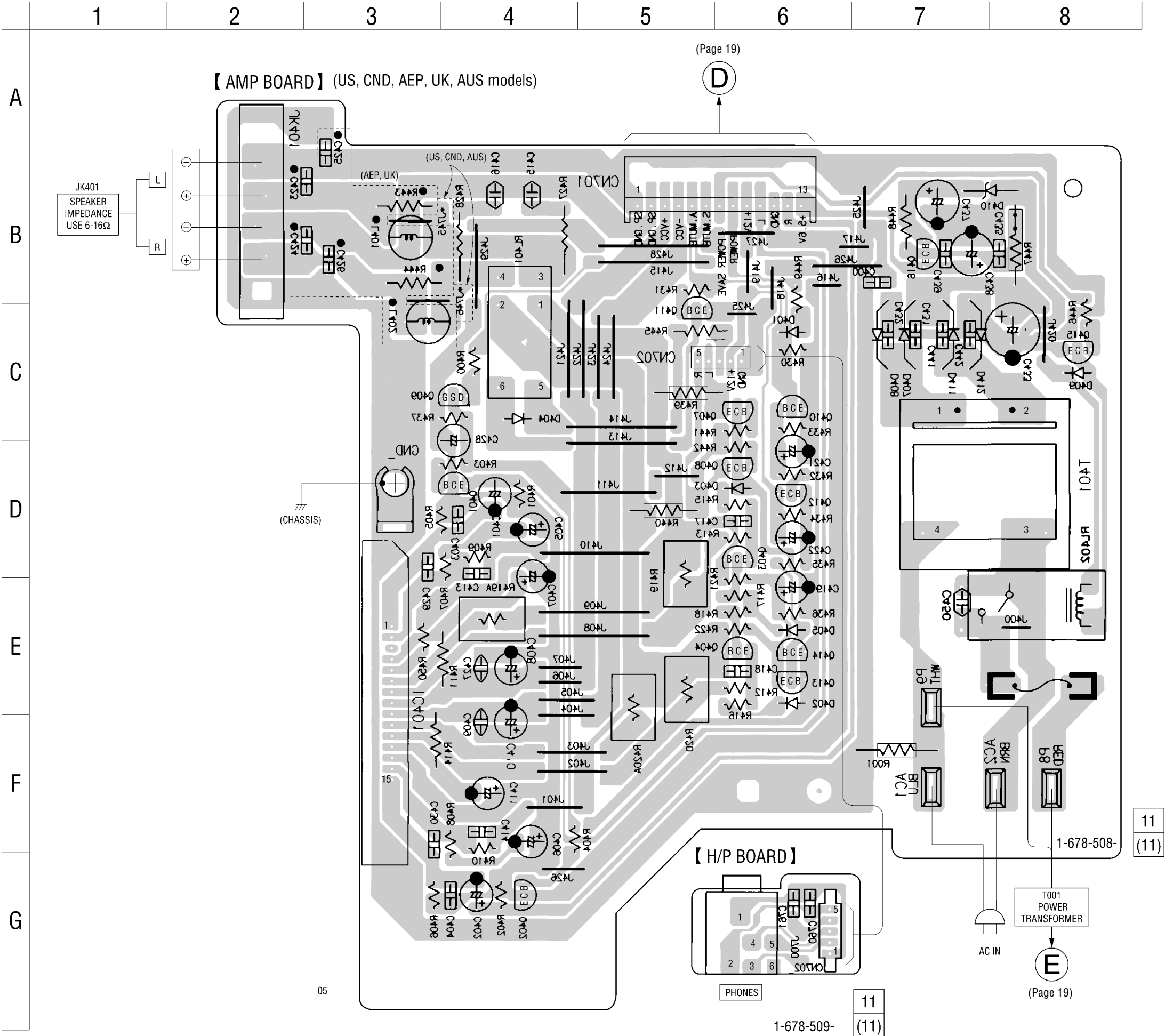


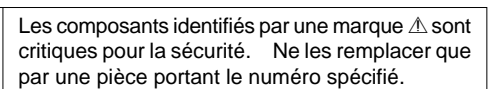
4-15. PRINTED WIRING BOARD – PANEL Section –

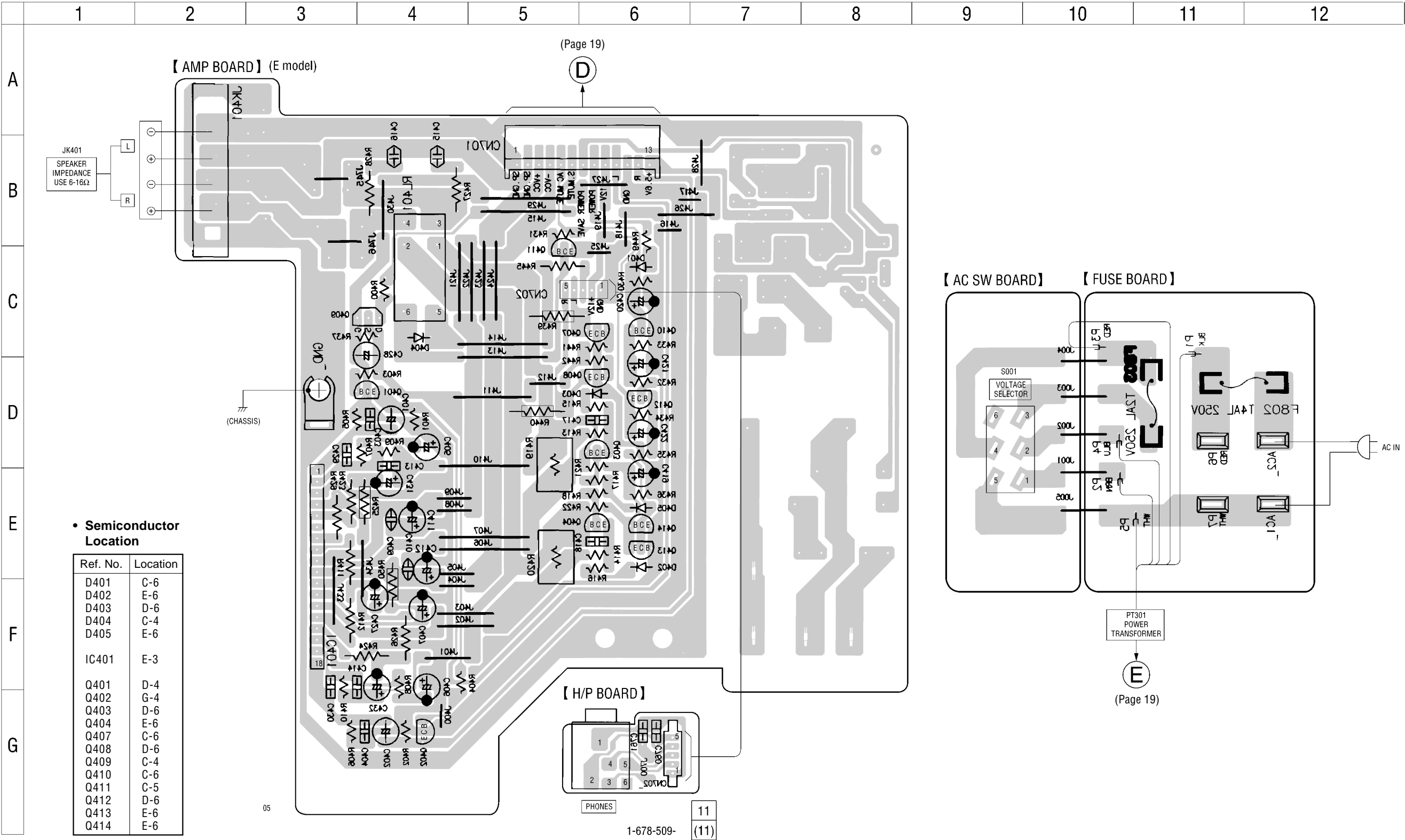
4-16. PRINTED WIRING BOARD – AMP Board (US, Canadian, AEP, UK, Australian models) – • See page 13 for Circuit Boards Location.

• Semiconductor Location

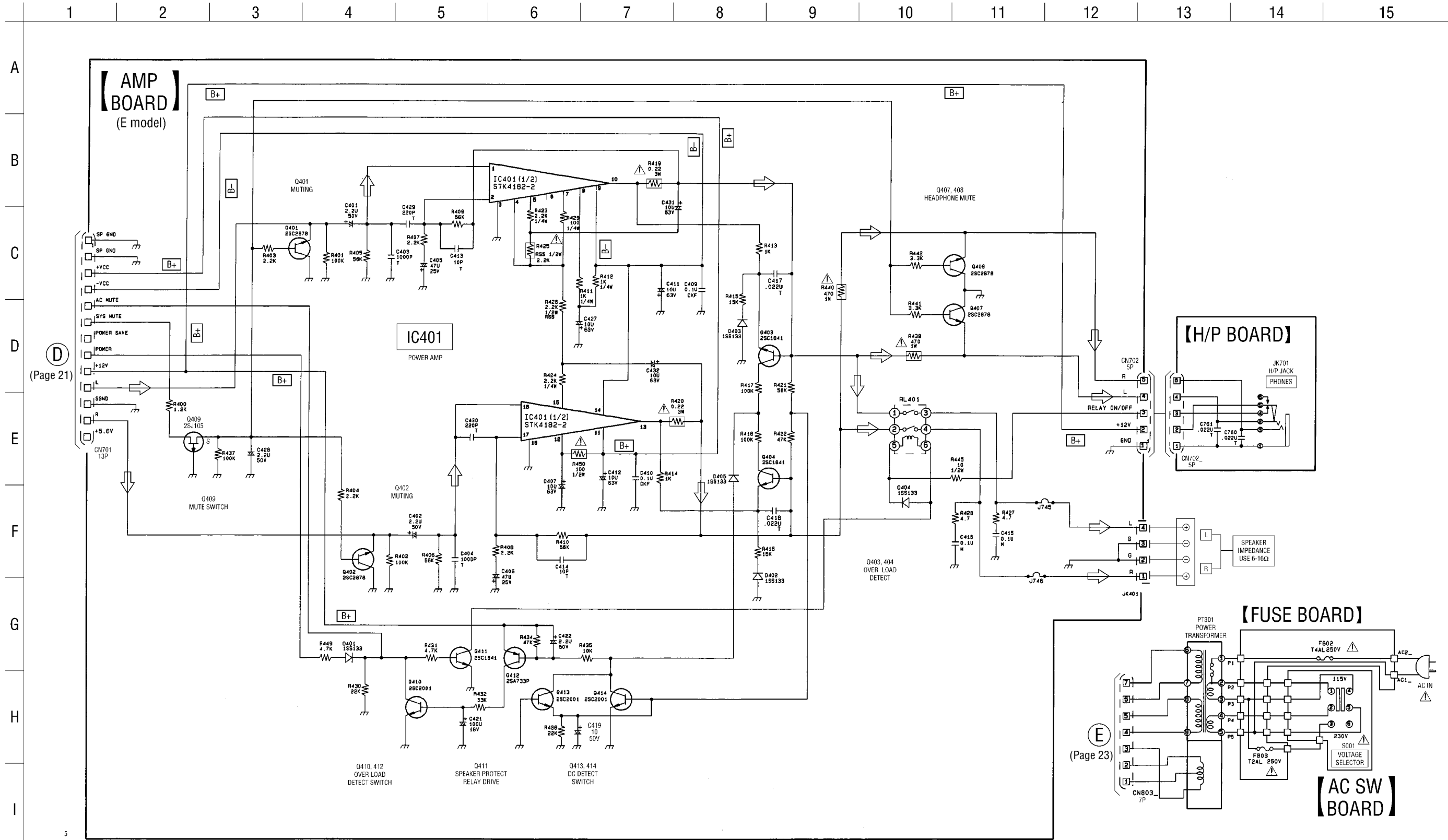
Ref. No.	Location
D401	C-6
D402	E-6
D403	D-6
D404	C-4
D405	E-6
D407	C-7
D408	C-7
D409	C-8
D410	B-8
D411	C-7
D412	C-7
IC401	E-3
Q401	D-4
Q402	G-4
Q403	D-6
Q404	E-6
Q407	C-6
Q408	D-6
Q409	C-4
Q410	C-6
Q411	C-5
Q412	D-6
Q413	E-6
Q414	E-6
Q415	C-8
Q416	B-7







4-19. SCHEMATIC DIAGRAM – AMP (E model)/AC/FUSE Boards –

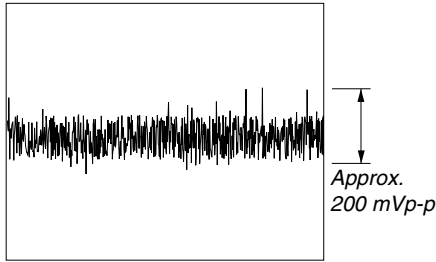


The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

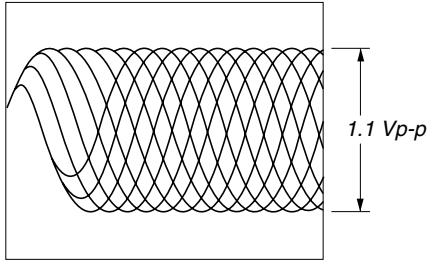
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• Waveforms
– DECODE Board –

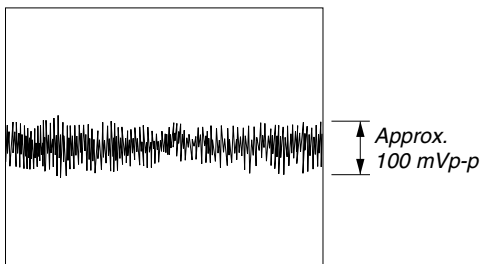
1 IC701 ① (FEO) (CD Play Mode)



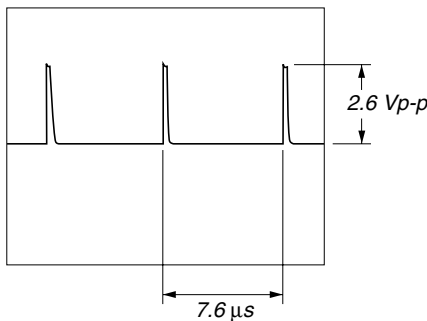
2 IC701 ③③ (RF O), IC702 ⑤⑤ (RF) (CD Play Mode)



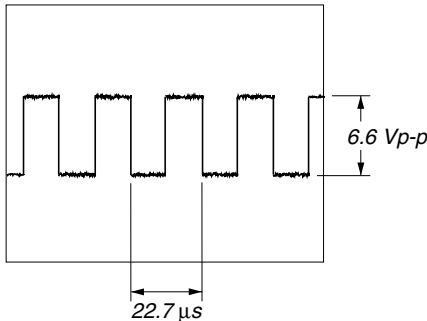
3 IC701 ④⑤ (TEO) (CD Play Mode)



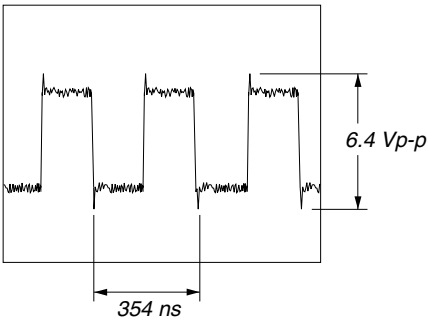
4 IC702 ②① (MDP) (CD Play Mode)



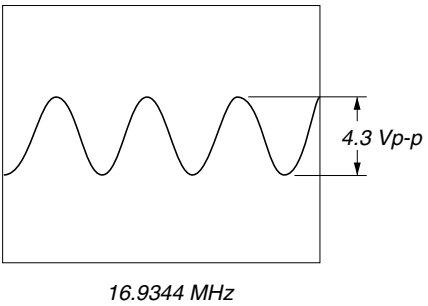
5 IC702 ③④ (LRCK) (CD Play Mode)



6 IC702 ④③ (BCK) (CD Play Mode)

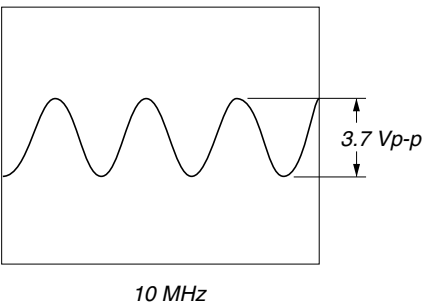


7 IC702 ⑦⑨ (XTAL)



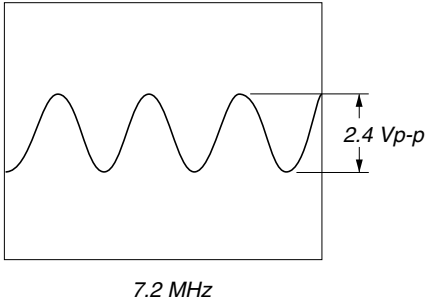
– FRONT Board –

1 IC601 ③⑨ (X'TAL)

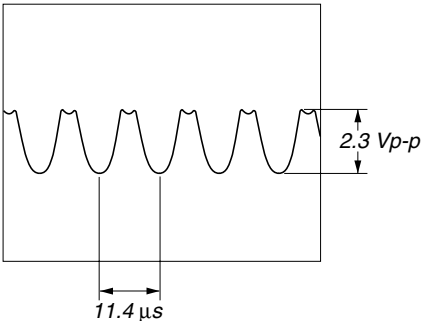


– MAIN Board –

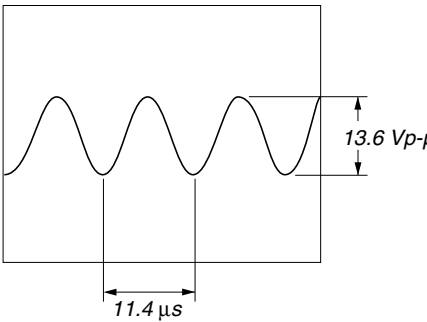
1 IC103 ① (XIN)



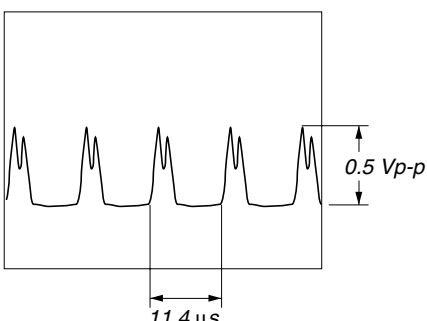
2 Q251 (Base)



3 Q251 (Collector)

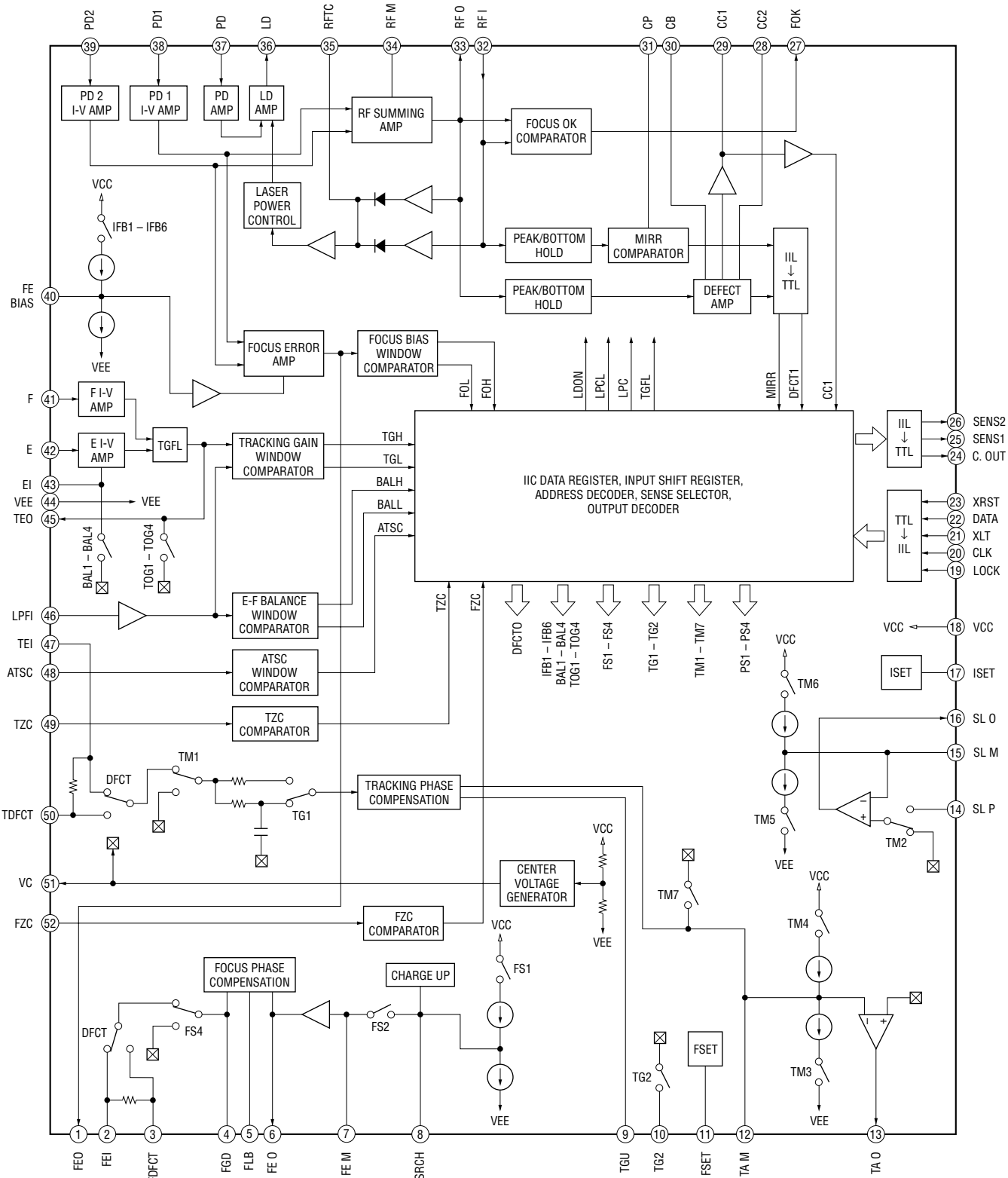


4 Q251 (Emitter)

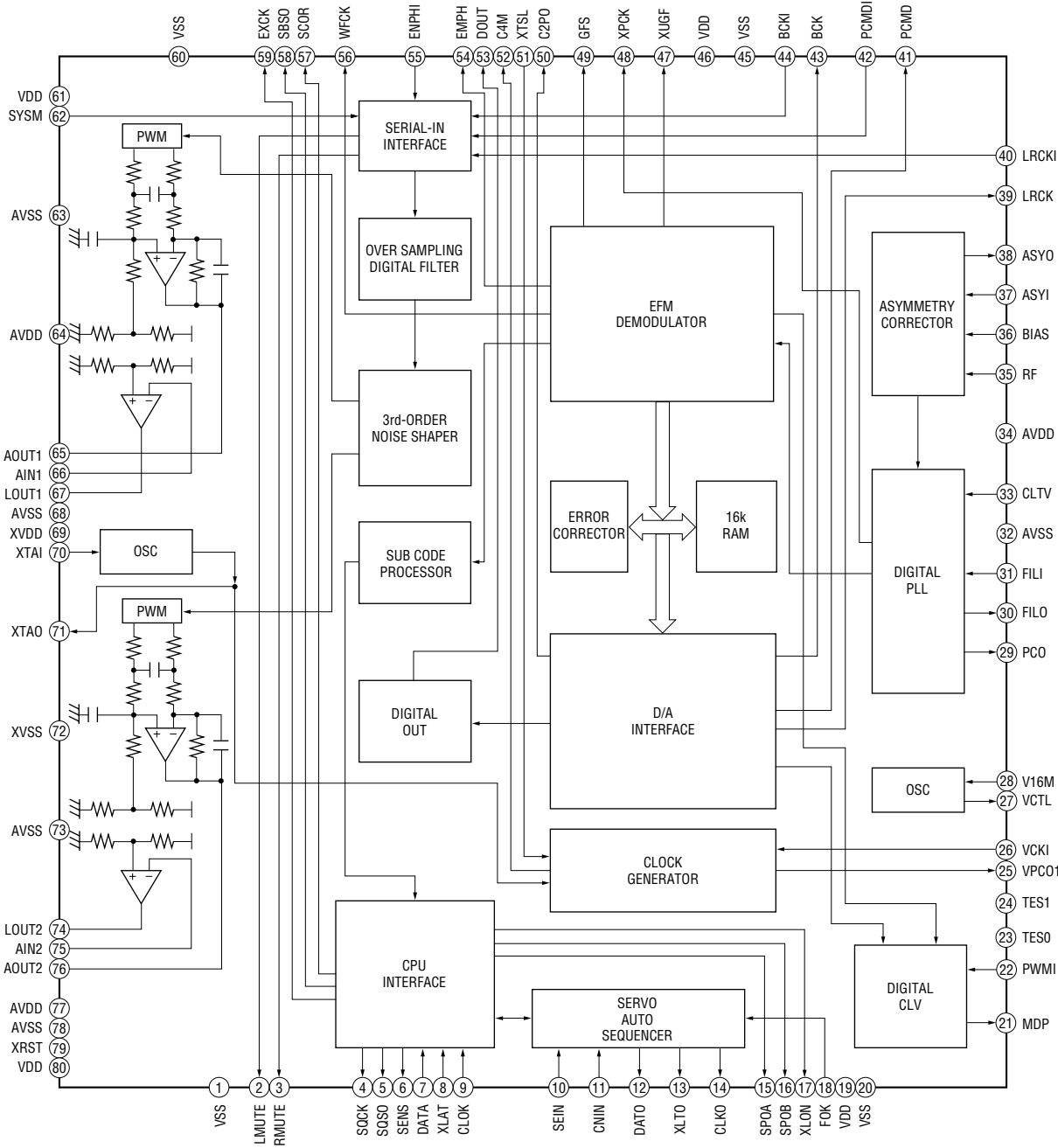


• IC Block Diagrams
– DECODE Board –

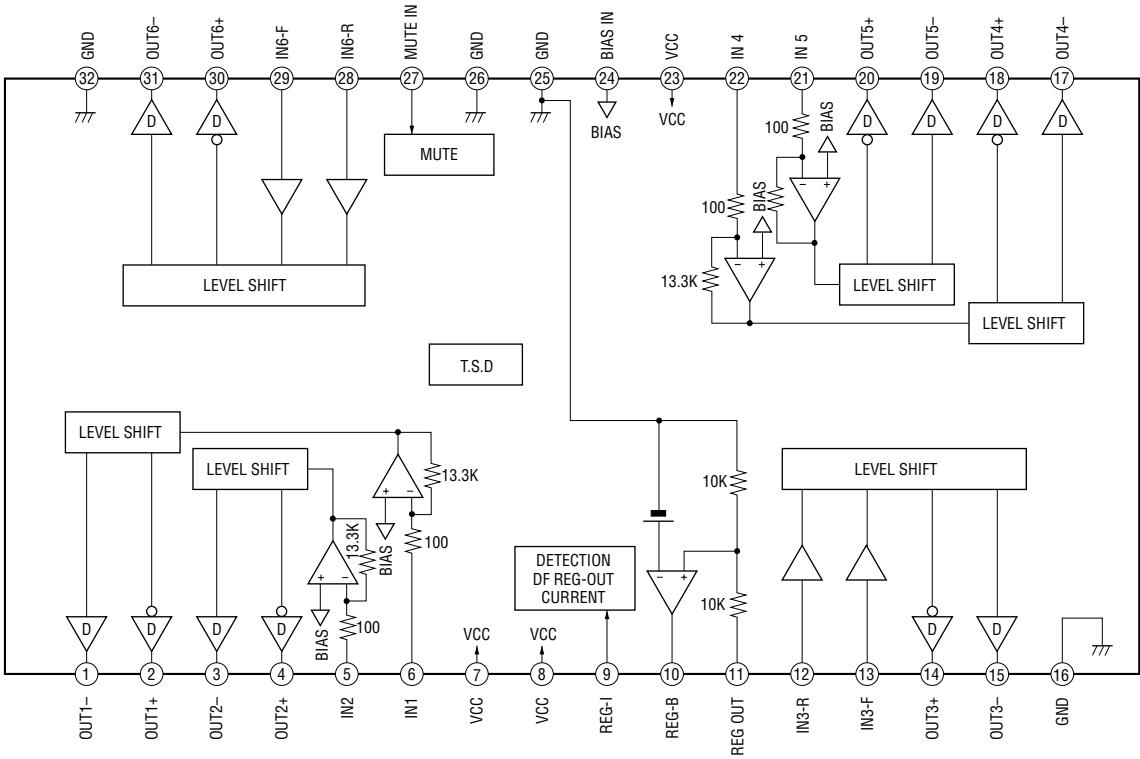
IC701 CXA1992BR



IC702 CXD2589Q

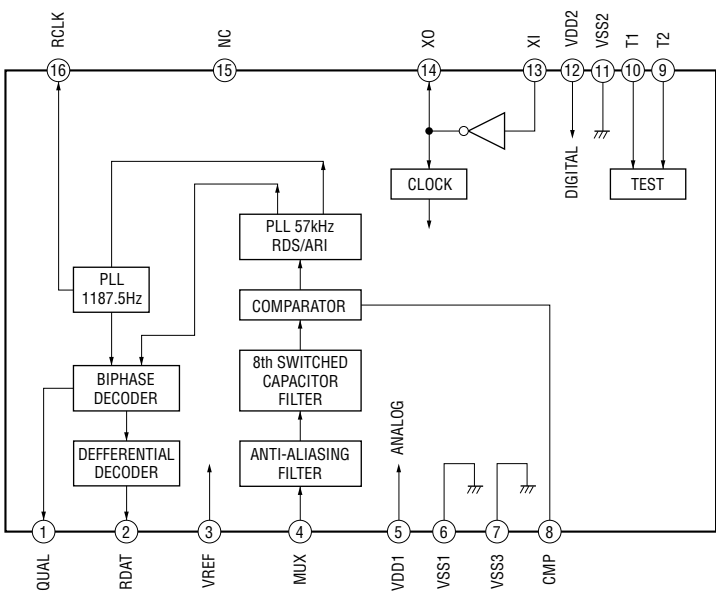


IC703 BA5963S

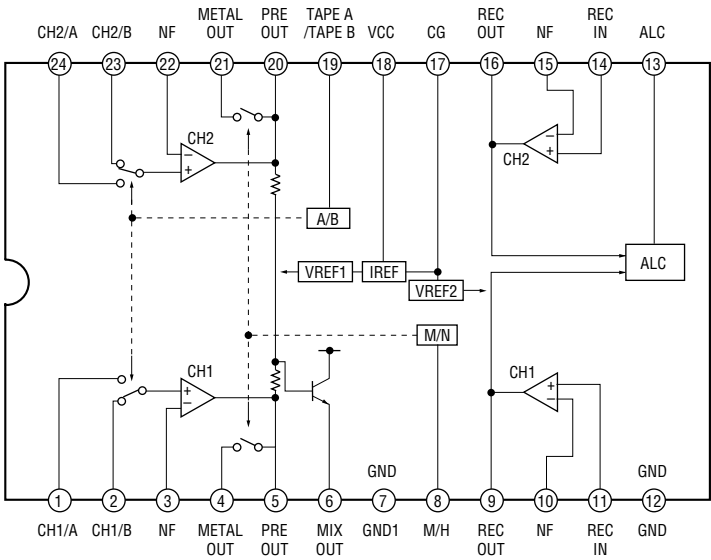


– MAIN Board –

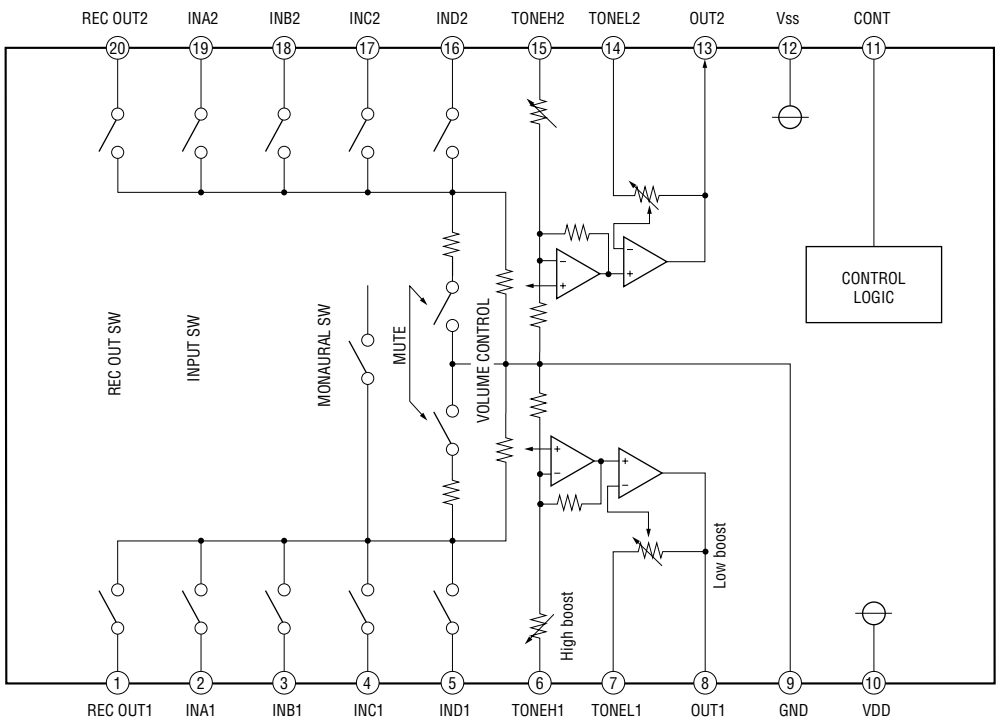
IC101 BU1924F (AEP, UK models)



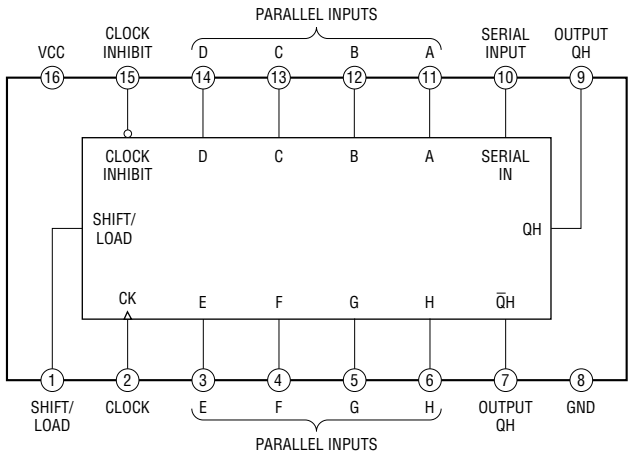
IC201 TA8189N



IC301 M62439SP

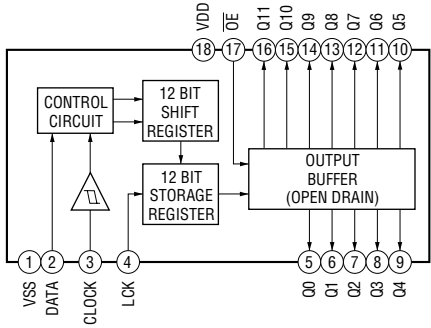


IC502 TC74HC165AP



– FRONT Board –

IC602 BU2092



SECTION 5

EXPLODED VIEWS



NOTE:


- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)

↑
Parts Color

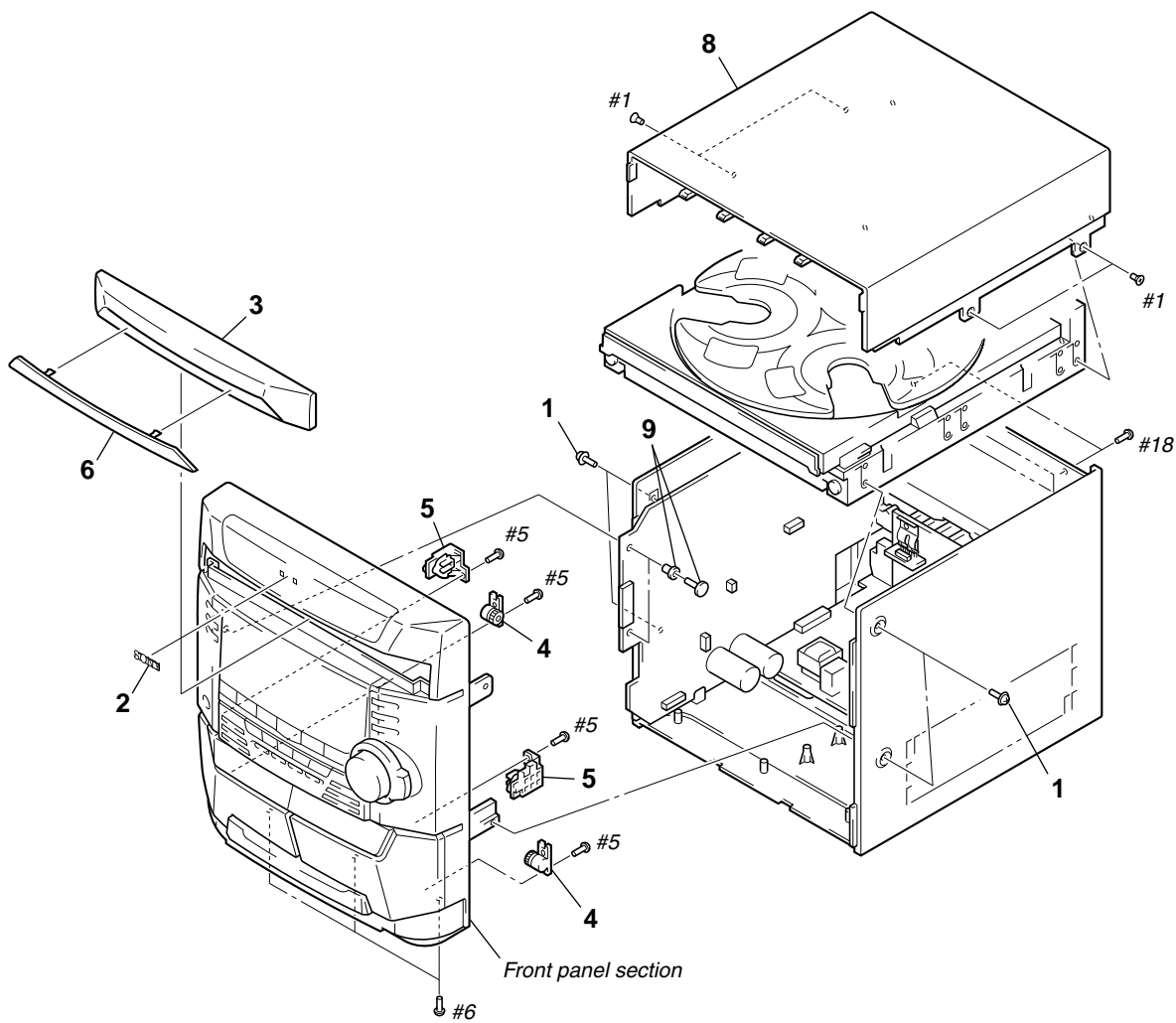
↑
Cabinet's Color

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of the electrical parts list.

The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

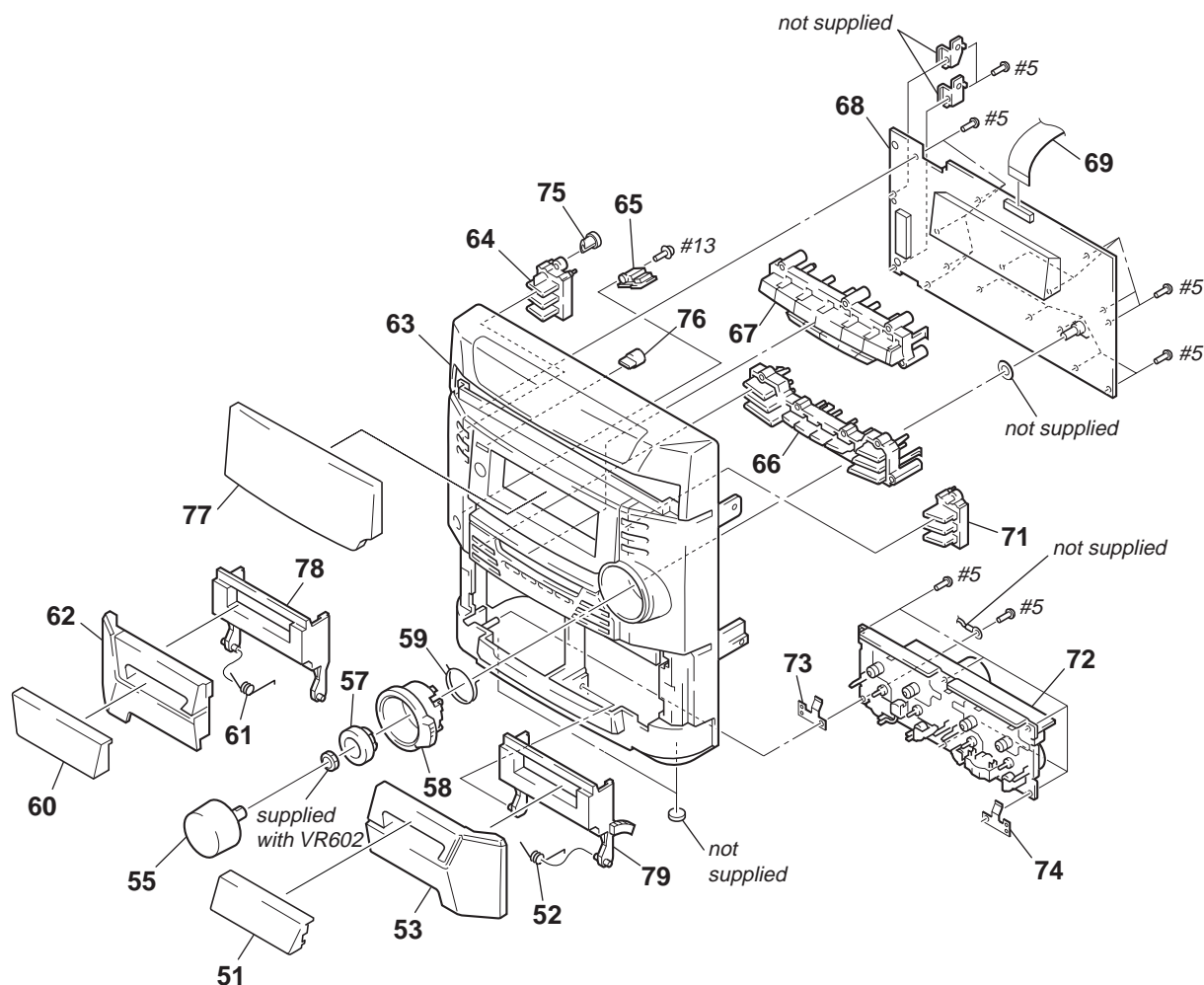
Les composants identifiés par une
marque  sont critiques pour la
sécurité.
Ne les remplacer que par une pièce
portant le numéro spécifié.

(1) TOP CABINET SECTION



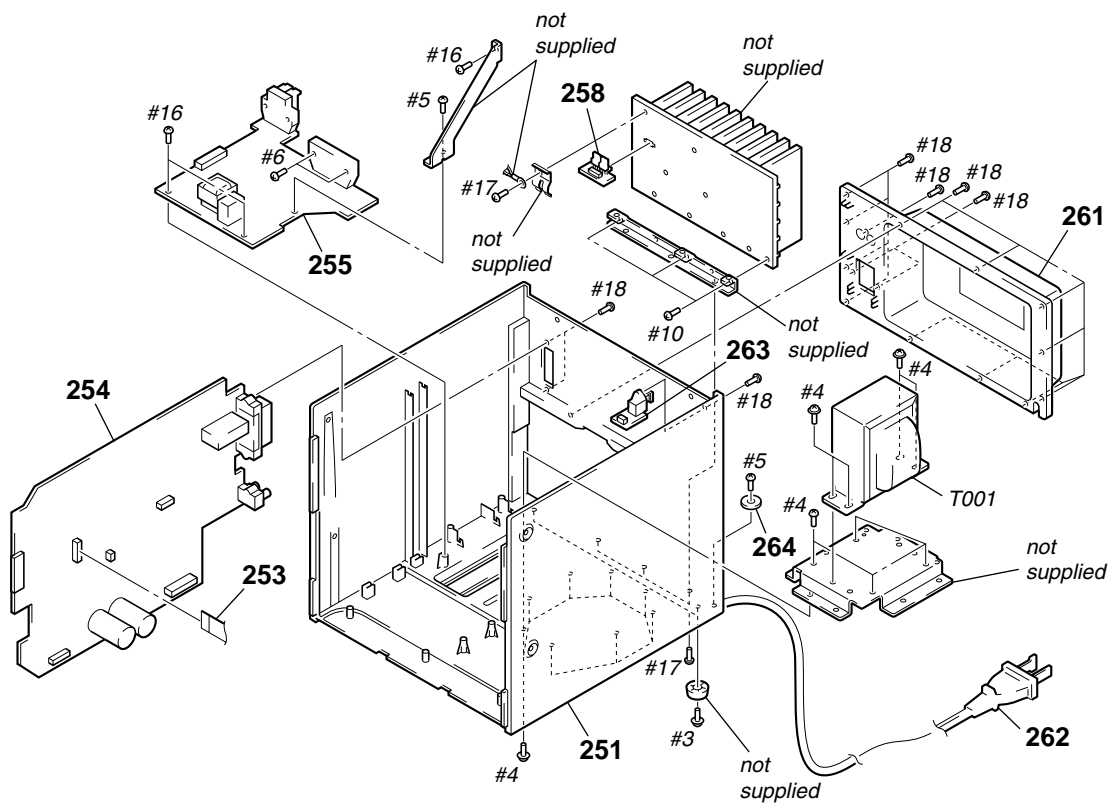
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-703-136-21	SCREW (M3X12)		5	4-229-451-01	HOLDER (A), EJECT	
2	4-229-459-01	EMBLEM		6	4-229-473-01	PLATE, CD DOOR	
3	4-229-453-01	DOOR, CD		8	4-229-452-01	CABINET, TOP	
4	4-220-622-01	DAMPER (GRY), GEAR		9	3-531-576-01	RIVET	

(2) FRONT PANEL SECTION



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
51	4-229-457-01	WINDOW (R), CASSETTE		66	4-229-479-01	BUTTON, CD FUNCTION	
52	4-229-464-01	SPRING (B), EJECT		67	4-229-480-01	BUTTON, FUNCTION	
53	4-229-455-01	DOOR (R), CASSETTE		68	A-4473-599-A	FRONT BOARD, COMPLETE	
55	4-229-477-01	KNOB (A), VOLUME		69	1-769-273-11	WIRE (FLAT TYPE) (22 CORE)	
57	4-229-462-01	HOLDER, VOL		71	4-229-475-01	BUTTON, PLAY MODE	
58	4-229-478-01	KNOB (B), VOLUME		72	1-772-163-11	DECK, MECH	
59	4-229-496-01	JOG, SPRING		73	4-229-494-01	SPRING (L), PUSING	
60	4-229-458-01	WINDOW (L), CASSETTE		74	4-229-492-01	SPRING (R), PUSING	
61	4-229-463-01	SPRING (A), EJECT		75	4-229-476-01	LENS (POWER)	
62	4-229-456-01	DOOR (L), CASSETTE		76	4-229-481-01	LENS (TIME)	
63	4-229-472-01	PANEL, FRONT		77	4-229-454-01	WINDOW, DISPLAY	
64	4-229-474-01	BUTTON, POWER		78	4-229-461-01	HOLDER (L), CASSETTE	
65	A-4473-610-A	H/P BOARD, COMPLETE		79	4-229-460-01	HOLDER (R), CASSETTE	

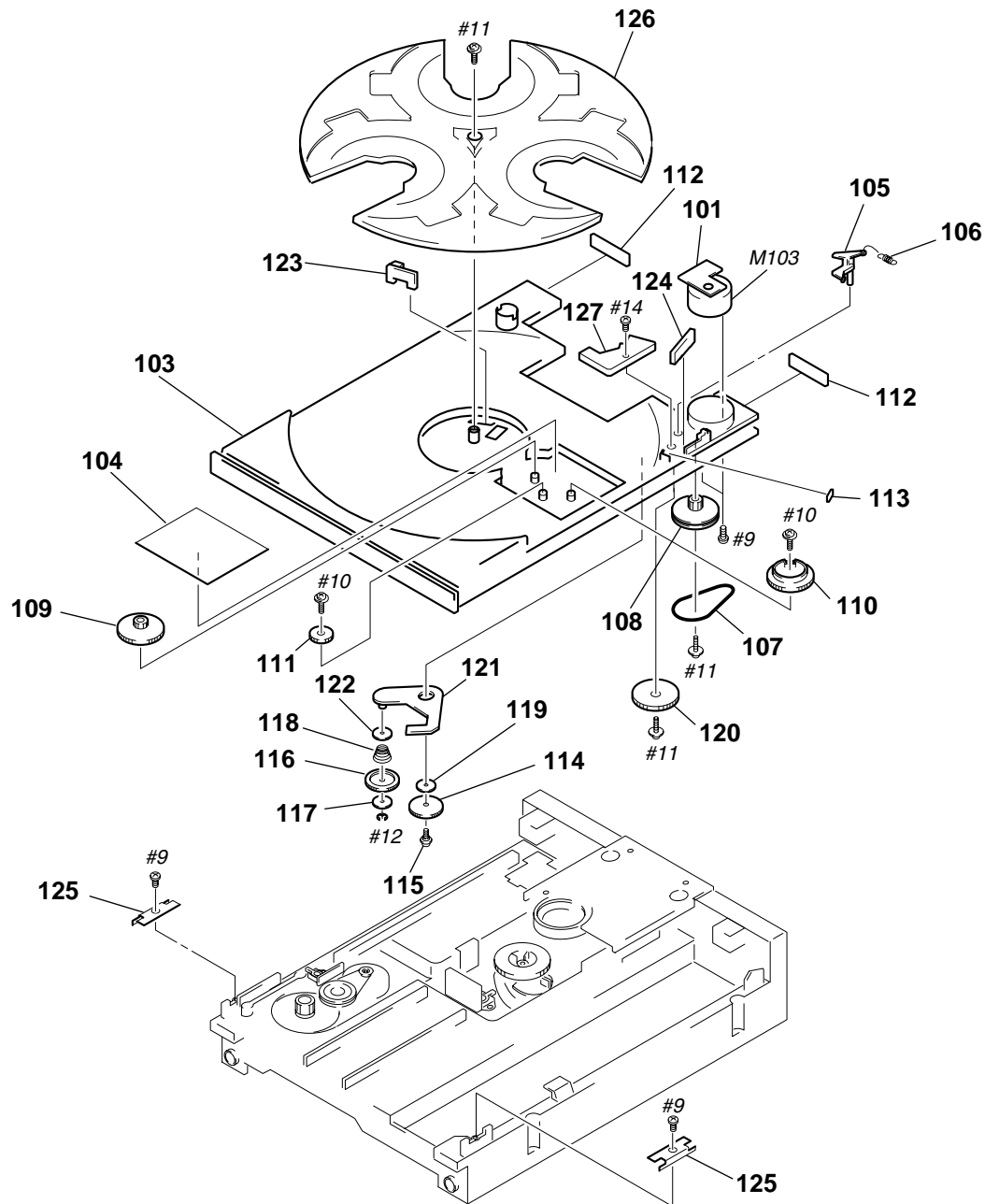
(3) BOTTOM CABINET SECTION



The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
--	--

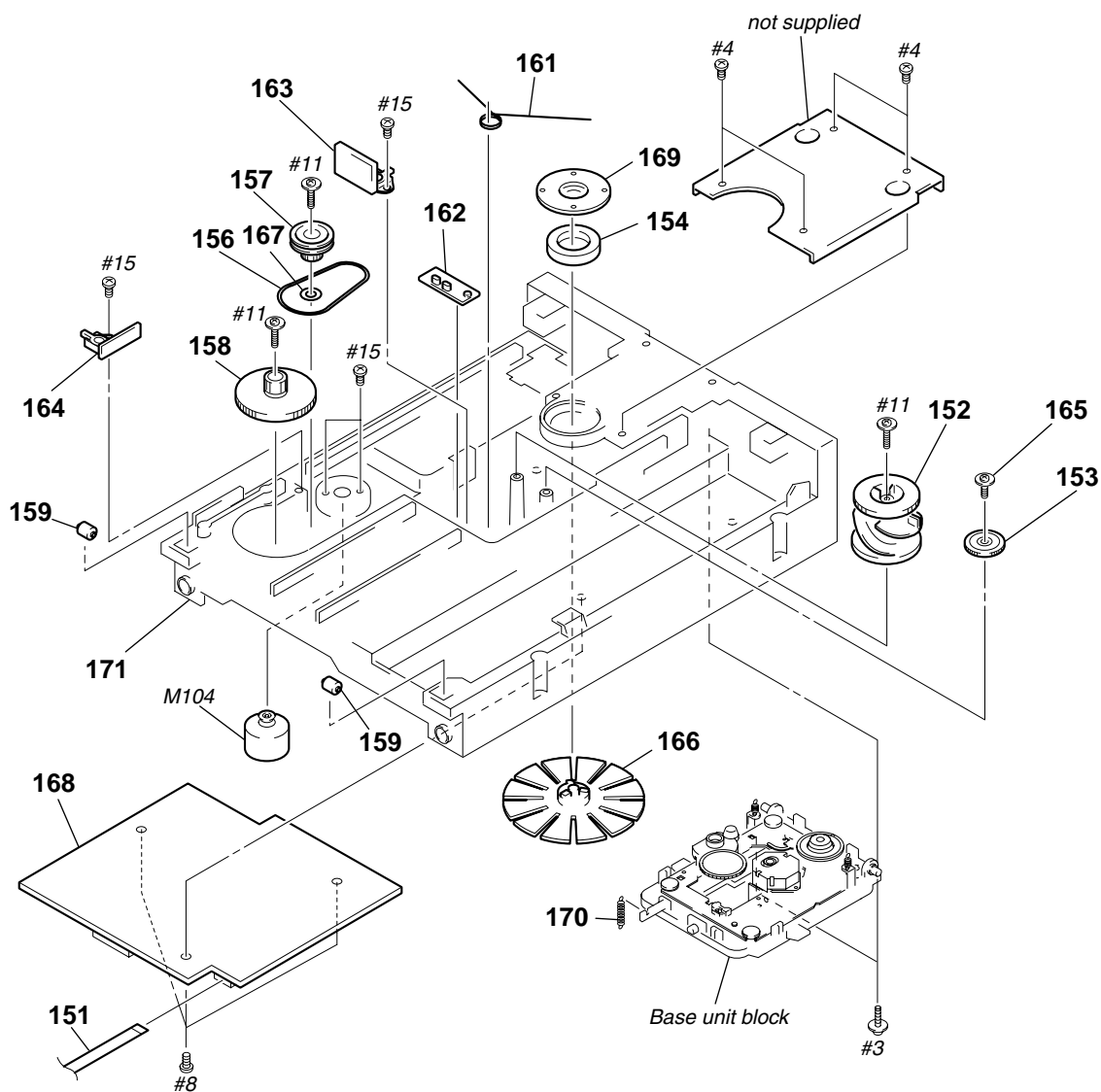
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	4-229-486-01	CABINET, BOTTOM		261	4-229-493-01	COVER, REAR	
253	1-792-850-11	WIRE (FLAT TYPE) (16 CORE)		▲ 262	1-783-531-51	CORD, POWER (US, Canadian)	
254	A-4473-603-A	MAIN BOARD, COMPLETE (US)		263	A-4473-612-A	SOCKET BOARD, COMPLETE	
255	A-4473-607-A	AMP BOARD, COMPLETE (US)		264	4-229-497-01	WASHER, AC CORD	
258	A-4473-606-A	TR BOARD, COMPLETE		▲ T001	1-435-611-11	TRANSFORMER, POWER (US)	

(4) CD MECHANISM DECK SECTION-1
(EXL-M7)



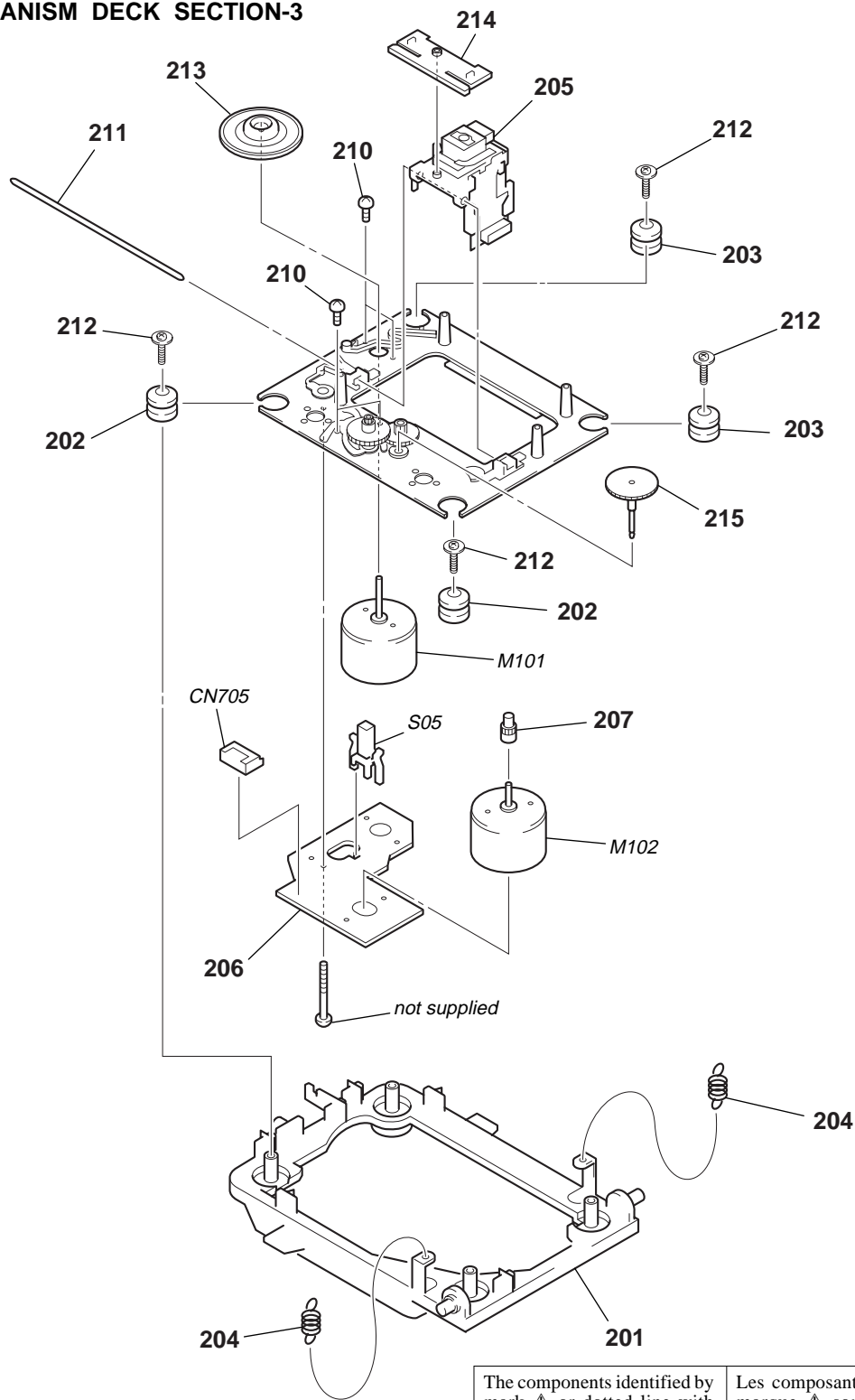
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	1-674-792-11	MOTOR BOARD		115	4-992-183-01	SCREW, RELAY GEAR (B)	
103	4-229-503-01	BASE, CHANGER		116	4-992-174-01	GEAR, CHANGE	
104	4-221-895-01	SHEET, BLIND		117	4-992-184-01	WASHER, CHANGE GEAR	
105	4-221-896-01	LEVER, SENSOR SW		118	4-229-505-01	SPRING, CHANGE GEAR	
106	4-992-182-01	SPRING, SENSOR (SW) LEVER		119	4-992-185-01	WASHER, CHANGE PLATE	
107	4-992-170-01	BELT, LOADING		120	4-992-172-01	GEAR (A), RELAY	
108	4-992-171-01	PULLEY, GEAR		121	4-221-902-01	PLATE, T/T	
109	4-221-894-01	GEAR, TR		123	1-674-789-11	SW B BOARD	
110	4-229-504-01	GEAR, TR LOCK		124	1-674-788-11	SW A BOARD	
111	4-221-893-01	GEAR (C), RELAY		125	4-229-499-01	GUIDE, RAIL	
112	4-992-187-01	CUSHION		126	4-229-529-01	TABLE, TURN	
113	4-992-186-01	CUSHION, SW LEVER		127	4-229-500-01	PROTECTOR, TURN TABLE	
114	4-992-173-01	GEAR (B), RELAY		M103	X-4948-765-1	MOTOR ASSY (TURN TABLE)	

**(5) CD MECHANISM DECK SECTION-2
(EXL-M7)**



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	1-769-856-11	WIRE (FLAT TYPE) (5 CORE)		162	4-992-193-01	LEVER, SW	
152	4-221-897-01	CAM, UD		163	1-674-791-11	SW D BOARD	
153	4-992-191-01	UD-GEAR		164	1-674-790-11	SW C BOARD	
154	4-992-195-01	MAGNET		165	4-229-512-01	SCREW, FLANGE	
156	4-992-197-01	BELT, LOADING GEAR		166	4-229-509-01	HOLDER, MAGNET	
157	4-992-198-01	PULLEY (B), GEAR		168	A-4473-611-A	DECODE BOARD, COMPLETE	
158	4-992-199-01	GEAR, SLIDE		169	4-221-900-01	COVER, MAGNET	
159	4-992-200-01	ROLLER		170	4-221-903-01	SPRING, MECHANICAL BASE	
160	4-992-192-01	SPRING, BRAKE CAM		171	4-229-510-01	CHASSIS, MAIN	
161	4-992-193-01	LEVER, SW		M104	X-4948-766-1	MOTOR ASSY (A) (TRAY)	

(6) CD MECHANISM DECK SECTION-3



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	4-229-508-01	BASE, KSM MECHANICAL		212	3-319-501-51	SCREW (+ PTPWH) (2.6X16)	
202	4-992-165-01	DAMPER (GREEN)		213	4-237-318-01	TURN TABLE	
203	4-992-166-01	DAMPER (RED)		214	4-237-315-01	CD RACK	
204	4-992-167-01	SPRING, MECHANICAL BASE		215	4-237-316-01	MECHA GEAR	
Δ 205	1-796-266-11	OPTICAL PICK-UP		CN702	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P	
206	4-237-319-01	PC BOARD		M101	1-541-352-12	MOTOR (SPINDLE)	
207	4-237-317-01	PINION GEAR		M102	1-541-353-12	MOTOR (SLED)	
210	3-713-786-51	SCREW (M2X3)		S05	1-572-085-11	SWITCH, LEAF (LIMIT)	
211	4-237-286-01	CD SHAFT					

SECTION 6 ELECTRICAL PARTS LIST

AMP

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . : μ A. . uPA. . : μ PA. .
uPB. . : μ PB. . uPC. . : μ PC. .
uPD. . : μ PD. .
- CAPACITORS
uF: μ F
• COILS
uH: μ H

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-4473-607-A	AMP BOARD, COMPLETE (US) *****				< CONNECTOR >	
*	1-533-213-31	HOLDER, FUSE		CN701	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P	
	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S				< DIODE >	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S		D401	8-719-911-19	DIODE 1SS133T-72	
	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S		D402	8-719-911-19	DIODE 1SS133T-72	
		< CAPACITOR >		D403	8-719-911-19	DIODE 1SS133T-72	
C400	1-161-494-00	CERAMIC	0.022uF 25V	D404	8-719-911-19	DIODE 1SS133T-72	
C401	1-109-953-11	ELECT	2.2uF 20% 50V	D405	8-719-911-19	DIODE 1SS133T-72	
C402	1-109-953-11	ELECT	2.2uF 20% 50V	D407	8-719-200-02	DIODE 1N4002	
C403	1-162-292-31	CERAMIC	680PF 10% 50V	D408	8-719-200-02	DIODE 1N4002	
C404	1-162-292-31	CERAMIC	680PF 10% 50V	D409	8-719-911-19	DIODE 1SS133T-72	
C405	1-104-664-11	ELECT	47uF 20% 25V	D410	8-719-010-44	DIODE UZ-6.2BS	
C406	1-104-664-11	ELECT	47uF 20% 25V	D411	8-719-200-02	DIODE 1N4002	
C407	1-126-964-11	ELECT	10uF 20% 50V	D412	8-719-200-02	DIODE 1N4002	
C408	1-126-964-11	ELECT	10uF 20% 50V			< FUSE >	
C409	1-164-159-11	CERAMIC	0.1uF 50V	Δ F401	1-576-108-11	FUSE (4A/125V) (US, Canadian)	
C410	1-126-964-11	ELECT	10uF 20% 50V			< IC >	
C411	1-126-964-11	ELECT	10uF 20% 50V	IC401	8-749-016-94	IC STK402-090S	
C413	1-162-199-31	CERAMIC	10PF 5% 50V			< TERMINAL >	
C414	1-162-199-31	CERAMIC	10PF 5% 50V	JK401	1-694-604-11	TERMINAL, SPEAKER (4P) (SPEAKER)	
C415	1-130-777-00	MYLAR	0.1uF 5% 100V			< TRANSISTOR >	
C416	1-130-777-00	MYLAR	0.1uF 5% 100V	Q401	8-729-231-55	TRANSISTOR 2SC2878-A	
C417	1-161-494-00	CERAMIC	0.022uF 25V	Q402	8-729-231-55	TRANSISTOR 2SC2878-A	
C418	1-161-494-00	CERAMIC	0.022uF 25V	Q403	8-729-184-53	TRANSISTOR 2SC1841-EA	
C419	1-107-714-11	ELECT	10uF 20% 50V	Q404	8-729-184-53	TRANSISTOR 2SC1841-EA	
C421	1-126-933-11	ELECT	100uF 20% 16V	Q407	8-729-231-55	TRANSISTOR 2SC2878-A	
C422	1-126-961-11	ELECT	2.2uF 20% 50V	Q408	8-729-231-55	TRANSISTOR 2SC2878-A	
C427	1-164-159-11	CERAMIC	0.1uF 50V	Q409	8-729-207-35	FET 2SJ105-Y	
C428	1-109-953-11	ELECT	2.2uF 20% 50V	Q410	8-729-142-46	TRANSISTOR 2SC2001-L	
C429	1-162-286-31	CERAMIC	220PF 10% 50V	Q411	8-729-184-53	TRANSISTOR 2SC1841-EA	
C430	1-162-286-31	CERAMIC	220PF 10% 50V	Q412	8-729-119-76	TRANSISTOR 2SA733-P	
C431	1-161-494-00	CERAMIC	0.022uF 25V	Q413	8-729-142-46	TRANSISTOR 2SC2001-L	
C432	1-161-494-00	CERAMIC	0.022uF 25V	Q414	8-729-142-46	TRANSISTOR 2SC2001-L	
C433	1-126-941-11	ELECT	470uF 20% 25V	Q415	8-729-194-57	TRANSISTOR 2SC945TP-P	
C435	1-161-494-00	CERAMIC	0.022uF 25V	Q416	8-729-140-96	TRANSISTOR 2SC2060-R	
C437	1-126-933-11	ELECT	100uF 20% 16V				
C438	1-126-933-11	ELECT	100uF 20% 16V				
C439	1-161-494-00	CERAMIC	0.022uF 25V				
C441	1-161-494-00	CERAMIC	0.022uF 25V				
C442	1-161-494-00	CERAMIC	0.022uF 25V				
C450	1-113-924-11	CERAMIC	0.0047uF 20% 250V				

Ref. No.	Part No.	Description	Remark		
< RESISTOR >					
△ R001	1-219-238-11	SOLID	4.7M	20%	1/2W F (US, Canadian)
R400	1-249-418-11	CARBON	1.2K	5%	1/4W
R401	1-247-879-11	CARBON	100K	5%	1/4W
R402	1-247-879-11	CARBON	100K	5%	1/4W
R403	1-247-839-11	CARBON	2.2K	5%	1/4W
R404	1-247-839-11	CARBON	2.2K	5%	1/4W
R405	1-249-438-11	CARBON	56K	5%	1/4W
R406	1-249-438-11	CARBON	56K	5%	1/4W
R407	1-247-839-11	CARBON	2.2K	5%	1/4W
R408	1-247-839-11	CARBON	2.2K	5%	1/4W
R409	1-249-438-11	CARBON	56K	5%	1/4W
R410	1-249-438-11	CARBON	56K	5%	1/4W
R411	1-249-459-11	CARBON	12K	5%	1/4W
R412	1-249-417-11	CARBON	1K	5%	1/4W
R413	1-249-417-11	CARBON	1K	5%	1/4W
R414	1-249-459-11	CARBON	12K	5%	1/4W
R415	1-249-431-11	CARBON	15K	5%	1/4W
R416	1-249-431-11	CARBON	15K	5%	1/4W
R417	1-247-879-11	CARBON	100K	5%	1/4W
R418	1-247-879-11	CARBON	100K	5%	1/4W
△ R419	1-220-890-11	METAL	0.22	10%	3W F
△ R420	1-220-890-11	METAL	0.22	10%	3W F
R421	1-249-438-11	CARBON	56K	5%	1/4W
R422	1-247-871-11	CARBON	47K	5%	1/4W
R427	1-249-455-11	CARBON	4.7	5%	1/4W
R428	1-249-455-11	CARBON	4.7	5%	1/4W
R430	1-247-863-11	CARBON	22K	5%	1/4W
R431	1-247-847-11	CARBON	4.7K	5%	1/4W
R432	1-247-867-11	CARBON	33K	5%	1/4W
R434	1-247-871-11	CARBON	47K	5%	1/4W
R435	1-247-855-11	CARBON	10K	5%	1/4W
R436	1-247-863-11	CARBON	22K	5%	1/4W
R437	1-247-879-11	CARBON	100K	5%	1/4W
△ R439	1-215-867-00	METAL OXIDE	470	5%	1W F
△ R440	1-215-867-00	METAL OXIDE	470	5%	1W F
R441	1-247-843-11	CARBON	3.3K	5%	1/4W
R442	1-247-843-11	CARBON	3.3K	5%	1/4W
R445	1-247-688-11	CARBON	10	5%	1/4W
R446	1-247-847-11	CARBON	4.7K	5%	1/4W
△ R447	1-212-857-00	FUSIBLE	10	5%	1/4W F
R448	1-247-713-11	CARBON	1K	5%	1/4W
R449	1-247-847-11	CARBON	4.7K	5%	1/4W
R450	1-247-855-11	CARBON	10K	5%	1/4W
△ R419A	1-220-890-11	METAL	0.22	10%	3W F
△ R420A	1-220-890-11	METAL	0.22	10%	3W F
< RELAY >					
RL401	1-755-170-11	RELAY (12V)			
△ RL402	1-515-999-11	RELAY, POWER			
< TRANSFORMER >					
△ T401	1-435-612-11	TRANSFORMER, POWER			

Ref. No.	Part No.	Description	Remark		
A-4473-611-A DECODE BOARD, COMPLETE					

< CAPACITOR >					
C701	1-104-664-11	ELECT	47uF	20%	16V
C702	1-137-352-11	MYLAR	0.033uF	5%	100V
C703	1-137-150-11	MYLAR	0.01uF	5%	100V
C704	1-137-352-11	MYLAR	0.033uF	5%	100V
C705	1-137-150-11	MYLAR	0.01uF	5%	100V
C706	1-128-551-11	ELECT	22uF	20%	25V
C707	1-162-209-31	CERAMIC	27PF	5%	50V
C708	1-164-159-11	CERAMIC	0.1uF		50V
C711	1-162-600-11	CERAMIC	0.0047uF	10%	16V
C712	1-162-306-11	CERAMIC	0.01uF	20%	16V
C713	1-136-291-11	MYLAR	0.0068uF	5%	100V
C714	1-137-397-11	MYLAR	0.047uF	5%	100V
C715	1-161-494-00	CERAMIC	0.022uF		25V
C716	1-137-399-11	MYLAR	0.1uF	5%	100V
C717	1-104-665-11	ELECT	100uF	20%	10V
C718	1-104-665-11	ELECT	100uF	20%	10V
C719	1-137-399-11	MYLAR	0.1uF	5%	100V
C720	1-137-389-11	MYLAR	0.0022uF	5%	100V
C721	1-137-399-11	MYLAR	0.1uF	5%	100V
C722	1-137-399-11	MYLAR	0.1uF	5%	100V
C723	1-137-399-11	MYLAR	0.1uF	5%	100V
C724	1-107-713-11	ELECT	4.7uF	20%	50V
C725	1-137-352-11	MYLAR	0.033uF	5%	100V
C726	1-130-486-00	MYLAR	0.018uF	10%	50V
C727	1-162-199-31	CERAMIC	10PF	5%	50V
C728	1-137-398-11	MYLAR	0.068uF	5%	100V
C729	1-126-962-11	ELECT	3.3uF	20%	50V
C730	1-162-215-31	CERAMIC	47PF	5%	50V
C731	1-164-159-11	CERAMIC	0.1uF		50V
C732	1-161-494-00	CERAMIC	0.022uF		25V
C733	1-104-665-11	ELECT	100uF	20%	10V
C734	1-164-159-11	CERAMIC	0.1uF		50V
C736	1-162-294-31	CERAMIC	0.001uF	10%	50V
C737	1-162-306-11	CERAMIC	0.01uF	20%	16V
C740	1-126-925-11	ELECT	470uF	20%	10V
C742	1-161-494-00	CERAMIC	0.022uF		25V
C743	1-126-927-11	ELECT	2200uF	20%	10V
C745	1-162-306-11	CERAMIC	0.01uF	20%	16V
C746	1-107-713-11	ELECT	4.7uF	20%	35V
C751	1-162-306-11	CERAMIC	0.01uF	20%	16V
C753	1-161-494-00	CERAMIC	0.022uF		25V
C754	1-104-665-11	ELECT	100uF	20%	10V
C755	1-104-665-11	ELECT	100uF	20%	10V
C756	1-107-357-11	MYLAR	0.47uF	5%	100V
C757	1-162-306-11	CERAMIC	0.01uF	20%	16V
C759	1-162-290-31	CERAMIC	470PF	10%	50V
C760	1-162-286-31	CERAMIC	220PF	10%	50V
C761	1-130-781-00	MYLAR	0.22uF	5%	100V
C762	1-137-150-11	MYLAR	0.01uF	5%	100V
C763	1-161-494-00	CERAMIC	0.022uF		25V
C765	1-162-294-31	CERAMIC	0.001uF	10%	50V
C766	1-162-294-31	CERAMIC	0.001uF	10%	50V
C767	1-162-294-31	CERAMIC	0.001uF	10%	50V
C768	1-162-294-31	CERAMIC	0.001uF	10%	50V

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
C769	1-162-294-31	CERAMIC	0.001uF	10%	50V			< COIL >					
C770	1-164-159-11	CERAMIC	0.1uF		50V								
C771	1-161-494-00	CERAMIC	0.022uF		25V	L704	1-410-526-11	INDUCTOR	10uH				
C772	1-161-494-00	CERAMIC	0.022uF		25V	L705	1-410-526-11	INDUCTOR	10uH				
C773	1-102-516-11	CERAMIC	27PF	5%	50V			< TRANSISTOR >					
C774	1-102-516-11	CERAMIC	27PF	5%	50V								
C777	1-162-294-31	CERAMIC	0.001uF	10%	50V	Q701	8-729-195-23	TRANSISTOR	2SA952-L				
C778	1-162-294-31	CERAMIC	0.001uF	10%	50V	Q704	8-729-142-46	TRANSISTOR	2SC2001-L				
C779	1-162-282-31	CERAMIC	100PF	10%	50V	Q712	8-729-194-57	TRANSISTOR	2SC945TP-P				
C780	1-162-294-31	CERAMIC	0.001uF	10%	50V			< RESISTOR >					
C781	1-162-284-31	CERAMIC	150PF	10%	50V								
C782	1-162-284-31	CERAMIC	150PF	10%	50V	R701	1-249-397-11	CARBON	22	5%	1/4W		
C783	1-162-292-31	CERAMIC	680PF	10%	50V	R704	1-247-854-11	CARBON	9.1K	5%	1/4W		
C784	1-162-292-31	CERAMIC	680PF	10%	50V	R705	1-247-849-11	CARBON	5.6K	5%	1/4W		
C785	1-126-963-11	ELECT	4.7uF	20%	50V	R706	1-249-428-11	CARBON	8.2K	5%	1/4W		
C786	1-126-963-11	ELECT	4.7uF	20%	50V	R707	1-247-903-00	CARBON	1M	5%	1/4W		
C787	1-162-294-31	CERAMIC	0.001uF	10%	50V	R709	1-247-806-11	CARBON	91	5%	1/4W		
C788	1-162-294-31	CERAMIC	0.001uF	10%	50V	R710	1-247-881-00	CARBON	120K	5%	1/4W		
C789	1-164-159-11	CERAMIC	0.1uF		50V	R711	1-247-883-00	CARBON	150K	5%	1/4W		
C790	1-126-926-11	ELECT	1000uF	20%	10V	R719	1-247-883-00	CARBON	150K	5%	1/4W		
C791	1-164-159-11	CERAMIC	0.1uF		50V	R720	1-247-891-00	CARBON	330K	5%	1/4W		
C792	1-162-286-31	CERAMIC	220PF	10%	50V	R721	1-247-885-00	CARBON	180K	5%	1/4W		
C793	1-162-294-31	CERAMIC	0.001uF	10%	50V	R722	1-249-417-11	CARBON	1K	5%	1/4W		
C794	1-162-294-31	CERAMIC	0.001uF	10%	50V	R723	1-247-855-11	CARBON	10K	5%	1/4W		
C795	1-164-159-11	CERAMIC	0.1uF		50V	R724	1-249-428-11	CARBON	8.2K	5%	1/4W		
C797	1-164-159-11	CERAMIC	0.1uF		50V	R725	1-247-899-11	CARBON	680K	5%	1/4W		
C798	1-126-963-11	ELECT	4.7uF	20%	50V	R726	1-247-883-00	CARBON	150K	5%	1/4W		
C799	1-161-494-00	CERAMIC	0.022uF		25V	R727	1-247-896-11	CARBON	510K	5%	1/4W		
C726A	1-164-206-41	CERAMIC	0.047uF	99%	50V	R728	1-249-459-11	CARBON	12K	5%	1/4W		
C727A	1-164-159-11	CERAMIC	0.1uF		50V	R729	1-249-439-11	CARBON	68K	5%	1/4W		
C740A	1-162-600-11	CERAMIC	0.0047uF	10%	16V	R730	1-247-871-11	CARBON	47K	5%	1/4W		
C740B	1-162-600-11	CERAMIC	0.0047uF	10%	16V	R731	1-249-417-11	CARBON	1K	5%	1/4W		
C740C	1-162-600-11	CERAMIC	0.0047uF	10%	16V	R732	1-247-883-00	CARBON	150K	5%	1/4W		
C740D	1-162-600-11	CERAMIC	0.0047uF	10%	16V	R733	1-249-430-11	CARBON	12K	5%	1/4W		
C751A	1-164-159-11	CERAMIC	0.1uF		50V	R734	1-247-883-00	CARBON	150K	5%	1/4W		
C771A	1-161-494-00	CERAMIC	0.022uF		25V	R735	1-247-879-11	CARBON	100K	5%	1/4W		
C777A	1-161-494-00	CERAMIC	0.022uF		25V	R736	1-249-459-11	CARBON	12K	5%	1/4W		
C789A	1-164-159-11	CERAMIC	0.1uF		50V	R737	1-249-417-11	CARBON	1K	5%	1/4W		
C790A	1-161-494-00	CERAMIC	0.022uF		25V	R739	1-249-459-11	CARBON	12K	5%	1/4W		
C799A	1-104-665-11	ELECT	100uF	20%	10V	R740	1-249-432-11	CARBON	18K	5%	1/4W		
C799B	1-104-665-11	ELECT	100uF	20%	10V	R741	1-249-432-11	CARBON	18K	5%	1/4W		
< CONNECTOR >						R743	1-249-430-11	CARBON	12K	5%	1/4W		
						R744	1-249-461-11	CARBON	18K	5%	1/4W		
CN701	1-774-757-11	CONNECTOR, FFC/FPC 15P				R745	1-249-461-11	CARBON	18K	5%	1/4W		
* CN703	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P				R746	1-249-461-11	CARBON	18K	5%	1/4W		
* CN705	1-568-822-11	SOCKET, CONNECTOR 22P				R747	1-249-432-11	CARBON	18K	5%	1/4W		
* CN706	1-568-824-11	SOCKET, CONNECTOR 5P											
* CN707	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P				R748	1-247-847-11	CARBON	4.7K	5%	1/4W		
						R753	1-247-847-11	CARBON	4.7K	5%	1/4W		
< DIODE >						R755	1-247-871-11	CARBON	47K	5%	1/4W		
D703	8-719-991-33	DIODE 1SS133T-77				R756	1-249-417-11	CARBON	1K	5%	1/4W		
D706	8-719-010-40	DIODE UZ-5.6BS				R758	1-247-871-11	CARBON	47K	5%	1/4W		
						R759	1-247-843-11	CARBON	3.3K	5%	1/4W		
< IC >						R760	1-249-417-11	CARBON	1K	5%	1/4W		
IC701	8-752-082-14	IC CXA1992BR				R761	1-247-855-11	CARBON	10K	5%	1/4W		
IC702	8-752-384-13	IC CXD2589Q				R762	1-247-903-00	CARBON	1M	5%	1/4W		
IC703	8-759-579-80	IC BA5936S				R763	1-247-881-00	CARBON	120K	5%	1/4W		
IC704	8-759-234-75	IC TC74HC4094AP				R764	1-247-855-11	CARBON	10K	5%	1/4W		

DECODE

FRONT

Ref. No.	Part No.	Description	Remark		
R765	1-247-871-11	CARBON	47K	5%	1/4W
R766	1-249-417-11	CARBON	1K	5%	1/4W
R767	1-249-417-11	CARBON	1K	5%	1/4W
R771	1-249-417-11	CARBON	1K	5%	1/4W
R773	1-249-442-11	CARBON	510	5%	1/4W
R774	1-247-903-00	CARBON	1M	5%	1/4W
R775	1-247-864-11	CARBON	24K	5%	1/4W
R781	1-249-430-11	CARBON	12K	5%	1/4W
R782	1-249-430-11	CARBON	12K	5%	1/4W
R783	1-249-430-11	CARBON	12K	5%	1/4W
R784	1-249-430-11	CARBON	12K	5%	1/4W
R785	1-249-430-11	CARBON	12K	5%	1/4W
R786	1-249-430-11	CARBON	12K	5%	1/4W
R787	1-247-717-11	CARBON	2.2K	5%	1/4W
R788	1-247-717-11	CARBON	2.2K	5%	1/4W
R789	1-247-847-11	CARBON	4.7K	5%	1/4W
R790	1-247-847-11	CARBON	4.7K	5%	1/4W
R795	1-247-713-11	CARBON	1K	5%	1/4W
R796	1-247-713-11	CARBON	1K	5%	1/4W
R797	1-247-713-11	CARBON	1K	5%	1/4W
R799	1-249-411-11	CARBON	330	5%	1/4W
R722A	1-247-807-11	CARBON	100	5%	1/4W
R726A	1-247-871-11	CARBON	47K	5%	1/4W
R729A	1-249-434-11	CARBON	27K	5%	1/4W
R748A	1-247-847-11	CARBON	4.7K	5%	1/4W
R766A	1-249-417-11	CARBON	1K	5%	1/4W
R767A	1-249-417-11	CARBON	1K	5%	1/4W
R768A	1-249-417-11	CARBON	1K	5%	1/4W
R780A	1-249-417-11	CARBON	1K	5%	1/4W
R795A	1-247-855-11	CARBON	10K	5%	1/4W
R796A	1-247-855-11	CARBON	10K	5%	1/4W
< VIBRATOR >					
XTL01	1-567-908-11	VIBRATOR, CRYSTAL (16.9344MHz)			

A-4473-599-A		FRONT BOARD, COMPLETE			

< CAPACITOR >					
C601	1-126-916-11	ELECT	1000uF	20%	6.3V
C602	1-161-494-00	CERAMIC	0.022uF		25V
C603	1-164-159-11	CERAMIC	0.1uF		50V
C604	1-119-774-11	ELECT	100uF	20%	16V
C605	1-124-589-11	ELECT	47uF	20%	16V
C606	1-164-159-11	CERAMIC	0.1uF		50V
C608	1-124-254-00	ELECT	0.68uF	20%	50V
C609	1-164-159-11	CERAMIC	0.1uF		50V
C610	1-126-964-11	ELECT	10uF	20%	50V
C611	1-161-494-00	CERAMIC	0.022uF		25V
C612	1-126-960-11	ELECT	1uF	20%	50V
C613	1-102-960-00	CERAMIC	24PF	5%	50V
C614	1-102-960-00	CERAMIC	24PF	5%	50V
C615	1-126-964-11	ELECT	10uF	20%	50V
C616	1-164-206-41	CERAMIC	0.047uF	99%	50V
C617	1-162-286-31	CERAMIC	220PF	10%	50V
C618	1-162-286-31	CERAMIC	220PF	10%	50V
C632	1-124-464-11	ELECT	0.22uF	20%	50V

Ref. No.	Part No.	Description	Remark		
C633	1-130-489-11	MYLAR	0.033uF	5%	50V
C634	1-126-957-11	ELECT	0.22uF	20%	50V
C635	1-162-301-11	CERAMIC	0.0015uF	30%	16V
C636	1-126-957-11	ELECT	0.22uF	20%	50V
C637	1-126-957-11	ELECT	0.22uF	20%	50V
C638	1-162-305-11	CERAMIC	0.0068uF	30%	16V
C639	1-126-959-11	ELECT	0.47uF	20%	50V
C640	1-126-957-11	ELECT	0.22uF	20%	50V
C641	1-164-206-41	CERAMIC	0.047uF	99%	50V
C642	1-126-957-11	ELECT	0.22uF	20%	50V
C643	1-162-293-31	CERAMIC	820PF	10%	50V
C901	1-126-964-11	ELECT	10uF	20%	50V
C902	1-161-494-00	CERAMIC	0.022uF		25V
C903	1-162-294-31	CERAMIC	0.001uF	10%	50V
C904	1-162-294-31	CERAMIC	0.001uF	10%	50V
C905	1-162-286-31	CERAMIC	220PF	10%	50V
C906	1-162-286-31	CERAMIC	220PF	10%	50V
C615A	1-164-206-41	CERAMIC	0.047uF	99%	50V
C616A	1-164-159-11	CERAMIC	0.1uF		50V
< CONNECTOR >					
CN101	1-793-767-11	CONNECTOR, BOARD TO BOARD 30P			
CN605	1-784-744-21	CONNECTOR, FFC 22P			
< DIODE >					
D601	8-719-200-02	DIODE	1N4002		
D602	8-719-200-02	DIODE	1N4002		
D603	8-719-911-19	DIODE	1SS133T-72		
D604	8-719-911-19	DIODE	1SS133T-72		
D612	8-719-911-19	DIODE	1SS133T-72		(US, Canadian, AEP, UK, Australian)
D613	8-719-911-19	DIODE	1SS133T-72		(US, Canadian)
D615	8-719-911-19	DIODE	1SS133T-72		(US, Canadian)
D618	8-719-911-19	DIODE	1SS133T-72		
D619	8-719-911-19	DIODE	1SS133T-72		
D620	8-719-911-19	DIODE	1SS133T-72		
D621	8-719-911-19	DIODE	1SS133T-72		
D622	8-719-911-19	DIODE	1SS133T-72		
D623	8-719-911-19	DIODE	1SS133T-72		
D624	8-719-911-19	DIODE	1SS133T-72		
D628	8-719-911-19	DIODE	1SS133T-72		
D629	8-719-911-19	DIODE	1SS133T-72		
D630	8-719-911-19	DIODE	1SS133T-72		
< FLUORESCENT INDICATOR >					
FLD601	1-517-731-21	INDICATOR TUBE, FLUORESCENT			
< IC >					
IC601	8-752-914-94	IC	CXP82040-114Q		
IC602	8-759-275-23	IC	BU2092		
< COIL >					
L601	1-408-429-00	INDUCTOR	470uH		
L901	1-410-517-11	INDUCTOR	47uH		

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
< LED >						R672	1-247-895-00	CARBON	470K	5%	1/4W
LED901	8-719-812-41	LED SEL2110R (TIMER)				R673	1-247-835-11	CARBON	1.5K	5%	1/4W
LED902	8-719-812-41	LED SEL2110R (STANDBY)				R674	1-247-835-11	CARBON	1.5K	5%	1/4W
LED903	8-719-317-11	LED SEL1710Y (CD)				R676	1-247-835-11	CARBON	1.5K	5%	1/4W
LED904	8-719-317-11	LED SEL1710Y (TAPE A/B)				R680	1-247-871-11	CARBON	47K	5%	1/4W
LED905	8-719-317-11	LED SEL1710Y (TUNER/BAND)				R903	1-247-847-11	CARBON	4.7K	5%	1/4W
LED906	8-719-317-11	LED SEL1710Y (MD)				R904	1-247-847-11	CARBON	4.7K	5%	1/4W
LED907	8-719-317-11	LED SEL1710Y (GROOVE)				R906	1-249-410-11	CARBON	270	5%	1/4W
LED908	8-719-317-11	LED SEL1710Y (REC)				R907	1-249-410-11	CARBON	270	5%	1/4W
LED909	8-719-921-01	LED SEL1110R (REC PAUSE)				R908	1-249-410-11	CARBON	270	5%	1/4W
LED910	8-719-312-70	LED SEL1410G (▷)				R909	1-249-410-11	CARBON	270	5%	1/4W
LED911	8-719-312-70	LED SEL1410G (◁)				R910	1-249-410-11	CARBON	270	5%	1/4W
< TRANSISTOR >						R911	1-249-417-11	CARBON	1K	5%	1/4W
Q601	8-729-194-57	TRANSISTOR 2SC945TP-P				R912	1-249-413-11	CARBON	470	5%	1/4W
Q602	8-729-194-57	TRANSISTOR 2SC945TP-P				R915	1-247-855-11	CARBON	10K	5%	1/4W
Q603	8-729-194-57	TRANSISTOR 2SC945TP-P				R916	1-247-855-11	CARBON	10K	5%	1/4W
Q604	8-729-119-76	TRANSISTOR 2SA733-P				R917	1-249-410-11	CARBON	270	5%	1/4W
Q901	8-729-194-57	TRANSISTOR 2SC945TP-P				R921	1-249-410-11	CARBON	270	5%	1/4W
Q902	8-729-194-57	TRANSISTOR 2SC945TP-P				R922	1-247-827-11	CARBON	680	5%	1/4W
< RESISTOR >						R923	1-249-416-11	CARBON	820	5%	1/4W
R601	1-247-871-11	CARBON	47K	5%	1/4W	R924	1-249-418-11	CARBON	1.2K	5%	1/4W
R602	1-249-417-11	CARBON	1K	5%	1/4W	R925	1-247-835-11	CARBON	1.5K	5%	1/4W
R603	1-247-871-11	CARBON	47K	5%	1/4W	R926	1-247-839-11	CARBON	2.2K	5%	1/4W
R604	1-249-417-11	CARBON	1K	5%	1/4W	R927	1-247-843-11	CARBON	3.3K	5%	1/4W
R605	1-247-871-11	CARBON	47K	5%	1/4W	R928	1-247-847-11	CARBON	4.7K	5%	1/4W
R606	1-249-417-11	CARBON	1K	5%	1/4W	R929	1-249-428-11	CARBON	8.2K	5%	1/4W
R607	1-249-431-11	CARBON	15K	5%	1/4W	R930	1-249-431-11	CARBON	15K	5%	1/4W
R608	1-247-871-11	CARBON	47K	5%	1/4W	R931	1-249-434-11	CARBON	27K	5%	1/4W
R612	1-247-855-11	CARBON	10K	5%	1/4W	R932	1-247-827-11	CARBON	680	5%	1/4W
R613	1-247-855-11	CARBON	10K	5%	1/4W	R933	1-249-416-11	CARBON	820	5%	1/4W
R614	1-247-855-11	CARBON	10K	5%	1/4W	R934	1-249-418-11	CARBON	1.2K	5%	1/4W
R615	1-247-855-11	CARBON	10K	5%	1/4W	R935	1-247-835-11	CARBON	1.5K	5%	1/4W
R616	1-247-855-11	CARBON	10K	5%	1/4W	R936	1-247-839-11	CARBON	2.2K	5%	1/4W
R617	1-247-855-11	CARBON	10K	5%	1/4W	R937	1-247-843-11	CARBON	3.3K	5%	1/4W
R618	1-247-855-11	CARBON	10K	5%	1/4W	R938	1-247-847-11	CARBON	4.7K	5%	1/4W
R619	1-247-855-11	CARBON	10K	5%	1/4W	R939	1-249-428-11	CARBON	8.2K	5%	1/4W
R620	1-247-855-11	CARBON	10K	5%	1/4W	R940	1-249-431-11	CARBON	15K	5%	1/4W
R621	1-247-855-11	CARBON	10K	5%	1/4W	R942	1-247-827-11	CARBON	680	5%	1/4W
R622	1-247-855-11	CARBON	10K	5%	1/4W	R943	1-249-416-11	CARBON	820	5%	1/4W
R623	1-247-855-11	CARBON	10K	5%	1/4W	R944	1-249-428-11	CARBON	8.2K	5%	1/4W
R624	1-247-855-11	CARBON	10K	5%	1/4W	R948	1-247-847-11	CARBON	4.7K	5%	1/4W
R625	1-247-855-11	CARBON	10K	5%	1/4W	R949	1-249-428-11	CARBON	8.2K	5%	1/4W
R626	1-247-855-11	CARBON	10K	5%	1/4W	R950	1-249-434-11	CARBON	27K	5%	1/4W
R657	1-247-835-11	CARBON	1.5K	5%	1/4W	R955	1-249-408-11	CARBON	180	5%	1/4W
R658	1-247-887-00	CARBON	220K	5%	1/4W	R956	1-249-408-11	CARBON	180	5%	1/4W
R659	1-247-871-11	CARBON	47K	5%	1/4W	R618A	1-247-879-11	CARBON	100K	5%	1/4W
R660	1-247-895-00	CARBON	470K	5%	1/4W	< SWITCH >					
R661	1-247-871-11	CARBON	47K	5%	1/4W	S902	1-572-647-11	SWITCH, KEY BOARD (▶▶▶ +)			
R662	1-247-895-00	CARBON	470K	5%	1/4W	S903	1-572-647-11	SWITCH, KEY BOARD (▷▷▷)			
R664	1-247-871-11	CARBON	47K	5%	1/4W	S904	1-572-647-11	SWITCH, KEY BOARD (TUNER MEMORY, EDIT)			
R665	1-247-895-00	CARBON	470K	5%	1/4W	S905	1-572-647-11	SWITCH, KEY BOARD (REPEAT, STEREO/MONO)			
R666	1-247-835-11	CARBON	1.5K	5%	1/4W	S906	1-572-647-11	SWITCH, KEY BOARD (PLAY MODE, DIRECTION)			
R668	1-247-871-11	CARBON	47K	5%	1/4W	S907	1-572-647-11	SWITCH, KEY BOARD (■)			
R669	1-247-895-00	CARBON	470K	5%	1/4W	S908	1-572-647-11	SWITCH, KEY BOARD (◁ ▷)			
R671	1-247-867-11	CARBON	33K	5%	1/4W						

FRONT

H/P

MAIN

Ref. No.	Part No.	Description	Remark
S909	1-572-647-11	SWITCH, KEY BOARD (■)	
S910	1-572-647-11	SWITCH, KEY BOARD (-I◀◀)	
S911	1-572-647-11	SWITCH, KEY BOARD (GROOVE)	
S912	1-572-647-11	SWITCH, KEY BOARD (FILE SELECT)	
S913	1-572-647-11	SWITCH, KEY BOARD (ENTER)	
S914	1-572-647-11	SWITCH, KEY BOARD (SPECTRUM)	
S915	1-572-647-11	SWITCH, KEY BOARD (DISPLAY)	
S917	1-572-647-11	SWITCH, KEY BOARD (I/⏻)	
S918	1-572-647-11	SWITCH, KEY BOARD (▲ OPEN/CLOSE)	
S919	1-572-647-11	SWITCH, KEY BOARD (DISC 3)	
S920	1-572-647-11	SWITCH, KEY BOARD (DISC 2)	
S921	1-572-647-11	SWITCH, KEY BOARD (DISC 1)	
S922	1-572-647-11	SWITCH, KEY BOARD (DISC SKIP EX-CHANGE)	
S923	1-572-647-11	SWITCH, KEY BOARD (TUNER/BAND)	
S924	1-572-647-11	SWITCH, KEY BOARD (CD)	
S925	1-572-647-11	SWITCH, KEY BOARD (TAPE A/B)	
S926	1-572-647-11	SWITCH, KEY BOARD (MD)	
S927	1-572-647-11	SWITCH, KEY BOARD (<◀◀)	
S931	1-572-647-11	SWITCH, KEY BOARD (REC)	
S932	1-572-647-11	SWITCH, KEY BOARD (REC PAUSE)	
S933	1-572-647-11	SWITCH, KEY BOARD (CD SYNC)	
		< VARIABLE RESISTOR >	
VR602	4-229-524-01	ROTARY, ENCODER (VOLUME)	
		< VIBRATOR >	
X601	1-567-925-11	VIBRATOR, CRYSTAL (10MHz)	

A-4473-610-A	H/P BOARD, COMPLETE		

		< CAPACITOR >	
C760	1-161-494-00	CERAMIC 0.022uF	25V
C761	1-161-494-00	CERAMIC 0.022uF	25V
		< JACK >	
JK701	1-569-612-11	JACK, MINIATURE (PHONES)	

A-4473-603-A	MAIN BOARD, COMPLETE (US)		

*	1-533-213-31	HOLDER, FUSE	
		< CAPACITOR >	
C101	1-162-199-31	CERAMIC 10PF	5% 50V
C113	1-161-494-00	CERAMIC 0.022uF	25V
C114	1-164-159-11	CERAMIC 0.1uF	50V
C115	1-161-494-00	CERAMIC 0.022uF	25V
C117	1-162-199-31	CERAMIC 10PF	5% 50V
C118	1-126-933-11	ELECT 100uF	20% 16V
C120	1-164-206-41	CERAMIC 0.047uF	99% 50V
C121	1-162-211-31	CERAMIC 33PF	5% 50V
C122	1-126-960-11	ELECT 1uF	20% 50V
C123	1-126-959-11	ELECT 0.47uF	20% 50V
C124	1-162-206-31	CERAMIC 20PF	5% 50V

Ref. No.	Part No.	Description	Remark
C125	1-126-960-11	ELECT 1uF	20% 50V
C126	1-164-206-41	CERAMIC 0.047uF	99% 50V
C127	1-126-964-11	ELECT 10uF	20% 50V
C128	1-161-494-00	CERAMIC 0.022uF	25V
C129	1-126-964-11	ELECT 10uF	20% 50V
C130	1-137-352-11	MYLAR 0.033uF	5% 100V
C131	1-137-352-11	MYLAR 0.033uF	5% 100V
C135	1-162-293-31	CERAMIC 820PF	10% 50V
C137	1-126-963-11	ELECT 4.7uF	20% 50V
C138	1-164-159-11	CERAMIC 0.1uF	50V
C139	1-161-494-00	CERAMIC 0.022uF	25V
C140	1-126-933-11	ELECT 100uF	20% 16V
C141	1-161-494-00	CERAMIC 0.022uF	25V
C142	1-126-933-11	ELECT 100uF	20% 16V
C143	1-137-378-11	MYLAR 0.22uF	5% 50V
C144	1-137-150-11	MYLAR 0.01uF	5% 100V
C146	1-162-294-31	CERAMIC 0.001uF	10% 50V
C148	1-161-494-00	CERAMIC 0.022uF	25V
C149	1-162-294-31	CERAMIC 0.001uF	10% 50V
C150	1-161-494-00	CERAMIC 0.022uF	25V
C151	1-128-551-11	ELECT 22uF	20% 25V
C152	1-162-282-31	CERAMIC 100PF	10% 50V
C154	1-164-159-11	CERAMIC 0.1uF	50V
C155	1-162-294-31	CERAMIC 0.001uF	10% 50V
C156	1-102-516-11	CERAMIC 27PF	5% 50V
C157	1-102-516-11	CERAMIC 27PF	5% 50V
C158	1-104-664-11	ELECT 47uF	20% 16V
C159	1-162-305-11	CERAMIC 0.0068uF	30% 16V
C160	1-126-963-11	ELECT 4.7uF	20% 50V
C161	1-126-963-11	ELECT 4.7uF	20% 50V
C162	1-161-494-00	CERAMIC 0.022uF	25V
C163	1-161-494-00	CERAMIC 0.022uF	25V
C164	1-126-962-11	ELECT 3.3uF	20% 50V
C165	1-162-305-11	CERAMIC 0.0068uF	30% 16V
C177	1-161-494-00	CERAMIC 0.022uF	25V
C179	1-164-206-41	CERAMIC 0.047uF	99% 50V
C185	1-164-159-11	CERAMIC 0.1uF	50V
C186	1-162-294-31	CERAMIC 0.001uF	10% 50V
C187	1-161-494-00	CERAMIC 0.022uF	25V
C188	1-162-600-11	CERAMIC 0.0047uF	30% 16V
C189	1-162-600-11	CERAMIC 0.0047uF	30% 16V
C194	1-162-286-31	CERAMIC 220PF	10% 50V
C195	1-162-286-31	CERAMIC 220PF	10% 50V
C196	1-162-286-31	CERAMIC 220PF	10% 50V
C197	1-162-286-31	CERAMIC 220PF	10% 50V
C198	1-126-959-11	ELECT 0.47uF	20% 50V
C199	1-164-206-41	CERAMIC 0.047uF	99% 50V
C201	1-162-292-31	CERAMIC 680PF	10% 50V
C202	1-162-292-31	CERAMIC 680PF	10% 50V
C203	1-162-292-31	CERAMIC 680PF	10% 50V
C204	1-162-292-31	CERAMIC 680PF	10% 50V
C205	1-162-286-31	CERAMIC 220PF	10% 50V
C206	1-162-286-31	CERAMIC 220PF	10% 50V
C207	1-162-286-31	CERAMIC 220PF	10% 50V
C208	1-162-286-31	CERAMIC 220PF	10% 50V
C209	1-104-664-11	ELECT 47uF	20% 16V
C210	1-104-664-11	ELECT 47uF	20% 16V
C211	1-130-486-00	MYLAR 0.018uF	10% 50V

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C212	1-130-486-00	MYLAR	0.018uF	10%	50V	C339	1-126-961-11	ELECT	2.2uF	20%	50V
C213	1-126-960-11	ELECT	1uF	20%	50V	C340	1-126-962-11	ELECT	3.3uF	20%	50V
C214	1-126-960-11	ELECT	1uF	20%	50V	C341	1-109-953-11	ELECT	2.2uF	20%	50V
C215	1-162-303-11	CERAMIC	0.0033uF	30%	16V	C342	1-109-953-11	ELECT	2.2uF	20%	50V
C216	1-162-303-11	CERAMIC	0.0033uF	30%	16V	C343	1-126-962-11	ELECT	3.3uF	20%	50V
C217	1-128-551-11	ELECT	22uF	20%	25V	C344	1-126-962-11	ELECT	3.3uF	20%	50V
C218	1-126-940-11	ELECT	330uF	20%	16V	C345	1-162-199-31	CERAMIC	10PF	5%	50V
C219	1-126-962-11	ELECT	3.3uF	20%	50V	C346	1-162-199-31	CERAMIC	10PF	5%	50V
C221	1-126-962-11	ELECT	3.3uF	20%	50V	C349	1-126-933-11	ELECT	100uF	20%	16V
C222	1-126-962-11	ELECT	3.3uF	20%	50V	C352	1-164-159-11	CERAMIC	0.1uF		50V
C223	1-162-290-31	CERAMIC	470PF	10%	50V	C354	1-126-934-11	ELECT	220uF	20%	16V
C224	1-162-290-31	CERAMIC	470PF	10%	50V	C355	1-126-934-11	ELECT	220uF	20%	16V
C225	1-162-301-11	CERAMIC	0.0015uF	30%	16V	C363	1-164-159-11	CERAMIC	0.1uF		50V
C226	1-162-301-11	CERAMIC	0.0015uF	30%	16V	C370	1-161-494-00	CERAMIC	0.022uF		25V
C227	1-162-286-31	CERAMIC	220PF	10%	50V	C371	1-161-494-00	CERAMIC	0.022uF		25V
C228	1-162-286-31	CERAMIC	220PF	10%	50V	C378	1-126-961-11	ELECT	2.2uF	20%	50V
C229	1-126-933-11	ELECT	100uF	20%	16V	C379	1-126-961-11	ELECT	2.2uF	20%	50V
C230	1-126-933-11	ELECT	100uF	20%	16V	C500	1-126-934-11	ELECT	220uF	20%	16V
C231	1-126-958-11	ELECT	0.33uF	20%	50V	C501	1-126-934-11	ELECT	220uF	20%	16V
C232	1-126-958-11	ELECT	0.33uF	20%	50V	C502	1-104-664-11	ELECT	47uF	20%	16V
C233	1-162-294-31	CERAMIC	0.001uF	10%	50V	C503	1-162-286-31	CERAMIC	220PF	10%	50V
C234	1-162-294-31	CERAMIC	0.001uF	10%	50V	C504	1-162-286-31	CERAMIC	220PF	10%	50V
C237	1-161-494-00	CERAMIC	0.022uF		25V	C505	1-162-286-31	CERAMIC	220PF	10%	50V
C238	1-126-961-11	ELECT	2.2uF	20%	50V	C511	1-162-286-31	CERAMIC	220PF	10%	50V
C251	1-137-350-11	MYLAR	0.015uF	5%	100V	C512	1-162-286-31	CERAMIC	220PF	10%	50V
C252	1-137-350-11	MYLAR	0.015uF	5%	100V	C551	1-162-305-11	CERAMIC	0.0068uF	30%	16V
C253	1-137-150-11	MYLAR	0.01uF	5%	100V	C553	1-126-960-11	ELECT	1uF	20%	50V
C254	1-137-391-11	MYLAR	0.0047uF	5%	100V	C554	1-126-956-11	ELECT	0.1uF	20%	50V
C255	1-104-664-11	ELECT	47uF	20%	16V	C555	1-126-960-11	ELECT	1uF	20%	50V
C261	1-137-397-11	MYLAR	0.047uF	5%	100V	C556	1-126-933-11	ELECT	100uF	20%	16V
C262	1-137-397-11	MYLAR	0.047uF	5%	100V	C557	1-162-215-31	CERAMIC	47PF	5%	50V
C300	1-164-159-11	CERAMIC	0.1uF		50V	C558	1-162-215-31	CERAMIC	47PF	5%	50V
C301	1-162-294-31	CERAMIC	0.001uF	10%	50V	C571	1-126-963-11	ELECT	4.7uF	20%	50V
C302	1-162-294-31	CERAMIC	0.001uF	10%	50V	C801	1-119-940-11	ELECT	4700uF	20%	50V
C303	1-126-961-11	ELECT	2.2uF	20%	50V	C802	1-119-940-11	ELECT	4700uF	20%	50V
C304	1-126-961-11	ELECT	2.2uF	20%	50V	C803	1-101-004-00	CERAMIC	0.01uF		50V
C305	1-126-961-11	ELECT	2.2uF	20%	50V	C804	1-101-004-00	CERAMIC	0.01uF		50V
C306	1-126-961-11	ELECT	2.2uF	20%	50V	C805	1-101-004-00	CERAMIC	0.01uF		50V
C307	1-137-352-11	MYLAR	0.033uF	5%	100V	C806	1-101-004-00	CERAMIC	0.01uF		50V
C308	1-137-352-11	MYLAR	0.033uF	5%	100V	C811	1-161-494-00	CERAMIC	0.022uF		25V
C309	1-137-378-11	MYLAR	0.22uF	5%	50V	C812	1-126-961-11	ELECT	2.2uF	20%	50V
C310	1-137-378-11	MYLAR	0.22uF	5%	50V	C813	1-126-948-11	ELECT	100uF	20%	35V
C311	1-137-378-11	MYLAR	0.22uF	5%	50V	C814	1-161-494-00	CERAMIC	0.022uF		25V
C312	1-137-378-11	MYLAR	0.22uF	5%	50V	C815	1-126-949-11	ELECT	220uF	20%	35V
C313	1-162-199-31	CERAMIC	10PF	5%	50V	C816	1-161-494-00	CERAMIC	0.022uF		25V
C319	1-126-961-11	ELECT	2.2uF	20%	50V	C817	1-161-494-00	CERAMIC	0.022uF		25V
C320	1-126-961-11	ELECT	2.2uF	20%	50V	C818	1-161-494-00	CERAMIC	0.022uF		25V
C322	1-161-494-00	CERAMIC	0.022uF		25V	C819	1-161-494-00	CERAMIC	0.022uF		25V
C323	1-164-159-11	CERAMIC	0.1uF		50V	C820	1-161-494-00	CERAMIC	0.022uF		25V
C324	1-126-933-11	ELECT	100uF	20%	16V	C821	1-126-943-11	ELECT	2200uF	20%	25V
C325	1-126-933-11	ELECT	100uF	20%	16V	C822	1-126-933-11	ELECT	100uF	20%	16V
C326	1-161-494-00	CERAMIC	0.022uF		25V	C823	1-161-494-00	CERAMIC	0.022uF		25V
C327	1-126-933-11	ELECT	100uF	20%	16V	C824	1-161-494-00	CERAMIC	0.022uF		25V
C331	1-126-961-11	ELECT	2.2uF	20%	50V	C825	1-126-933-11	ELECT	100uF	20%	16V
C332	1-126-961-11	ELECT	2.2uF	20%	50V	C826	1-126-933-11	ELECT	100uF	20%	16V
C333	1-104-664-11	ELECT	47uF	20%	16V	C827	1-161-494-00	CERAMIC	0.022uF		25V
C334	1-104-664-11	ELECT	47uF	20%	16V	C828	1-161-494-00	CERAMIC	0.022uF		25V
						C829	1-126-935-11	ELECT	470uF	20%	16V

MAIN

Ref. No.	Part No.	Description	Remark
C830	1-161-494-00	CERAMIC 0.022uF	25V
C831	1-161-494-00	CERAMIC 0.022uF	25V
C832	1-161-494-00	CERAMIC 0.022uF	25V
C833	1-126-967-11	ELECT 47uF 20%	50V
C834	1-126-934-11	ELECT 220uF 20%	16V
C835	1-161-494-00	CERAMIC 0.022uF	25V
C300A	1-164-159-11	CERAMIC 0.1uF	50V
C300B	1-161-494-00	CERAMIC 0.022uF	25V
C345A	1-162-292-31	CERAMIC 680PF 10%	50V
C346A	1-162-292-31	CERAMIC 680PF 10%	50V
C500A	1-161-494-00	CERAMIC 0.022uF	25V
< FILTER >			
CF101	1-579-568-11	FILTER, CERAMIC (10.7MHz)	
CF102	1-567-390-11	FILTER, CERAMIC (10.7MHz)	
CF103	1-527-996-11	FILTER, CERAMIC (450kHz)	
CF104	1-579-856-11	DISCRIMINATOR, CERAMIC (10.7MHz)	
< CONNECTOR >			
* CN201	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
CN501	1-784-777-11	CONNECTOR, FFC 16P	
CN601	1-793-766-11	CONNECTOR, BOARD TO BOARD 30P	
CN701	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P	
* CN803	1-564-510-11	PLUG, CONNECTOR 7P	
< DIODE >			
D101	8-719-911-19	DIODE 1SS133T-72	
D102	8-719-911-19	DIODE 1SS133T-72	
D103	8-719-911-19	DIODE 1SS133T-72	
D104	8-719-911-19	DIODE 1SS133T-72	
D109	8-719-911-19	DIODE 1SS133T-72	
D110	8-719-010-40	DIODE UZ-5.6BS	
D111	8-719-911-19	DIODE 1SS133T-72	
D201	8-719-911-19	DIODE 1SS133T-72	
D202	8-719-911-19	DIODE 1SS133T-72	
D203	8-719-911-19	DIODE 1SS133T-72	
D301	8-719-911-19	DIODE 1SS133T-72	
D302	8-719-010-44	DIODE UZ-6.2BS	
D303	8-719-985-47	DIODE UZ-3.0BS	
D304	8-719-985-47	DIODE UZ-3.0BS	
D305	8-719-010-44	DIODE UZ-6.2BS	
D306	8-719-010-44	DIODE UZ-6.2BS	
D307	8-719-911-19	DIODE 1SS133T-72	
D501	8-719-911-19	DIODE 1SS133T-72	
D502	8-719-911-19	DIODE 1SS133T-72	
D551	8-719-911-19	DIODE 1SS133T-72	
D552	8-719-911-19	DIODE 1SS133T-72	
D801	8-719-027-23	DIODE GBU6D	
D804	8-719-200-02	DIODE 1N4002	
D805	8-719-200-02	DIODE 1N4002	
D806	8-719-200-02	DIODE 1N4002	
D807	8-719-200-02	DIODE 1N4002	
D808	8-719-200-02	DIODE 1N4002	
D809	8-719-921-82	DIODE UZ-12BS	
D811	8-719-012-32	DIODE UZ-27BS	
D812	8-719-110-08	DIODE UZ-8.2BS	

Ref. No.	Part No.	Description	Remark
D813	8-719-911-19	DIODE 1SS133T-72	
D814	8-719-921-82	DIODE UZ-12BS	
D816	8-719-010-31	DIODE UZ-4.7BS	
< FUSE >			
F801	1-576-104-11	FUSE (T2AL/250V)	
< FRONT END >			
FE101	1-693-469-11	FRONT END	
< IC >			
IC102	8-759-663-31	IC LA1833N	
IC103	8-759-590-13	IC LC72131D	
IC201	8-759-242-58	IC TA8189N	
IC301	8-759-595-08	IC M62439SP	
IC302	8-759-505-55	IC NJM4558L	
IC501	8-759-234-69	IC TC74HC4049AP	
IC502	8-759-916-52	IC TC74HC165AP	
< TERMINAL/JACK >			
JK101	1-694-092-21	TERMINAL BOARD (SPEAKER) (ANTENNA)	
JK301	1-793-484-11	JACK, PIN 2P (MD IN)	
< COIL >			
L106	1-412-507-11	INDUCTOR 47uH	
L108	1-412-503-11	INDUCTOR 22uH	
L113	1-412-503-11	INDUCTOR 22uH	
L114	1-412-503-11	INDUCTOR 22uH	
L115	1-476-103-11	RF BLOCK, AM	
L251	1-419-645-11	COIL, BIAS OSCILLATION	
L401	1-414-151-11	INDUCTOR 470uH	
L500	1-414-151-11	INDUCTOR 470uH	
< TRANSISTOR >			
Q101	1-806-093-71	TRANSISTOR 2SC1675-L1	
Q108	8-729-041-83	FET 2SK544E	
Q114	8-729-029-26	TRANSISTOR DTA114YSA	
Q116	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q117	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q201	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q202	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q203	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q204	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q205	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q206	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q207	8-729-119-76	TRANSISTOR 2SA733-P	
Q208	8-729-119-76	TRANSISTOR 2SA733-P	
Q209	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q213	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q214	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q251	8-729-142-46	TRANSISTOR 2SC2001-L	
Q252	8-729-119-76	TRANSISTOR 2SA733-P	
Q253	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q305	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q306	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q308	8-729-140-96	TRANSISTOR 2SC2060-R	
Q309	8-729-140-96	TRANSISTOR 2SC2060-R	

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
Q501	8-729-194-57	TRANSISTOR	2SC945TP-P				R202	1-249-393-11	CARBON	10	5%	1/4W	
Q502	8-729-993-43	TRANSISTOR	2SA934R				R203	1-249-393-11	CARBON	10	5%	1/4W	
Q503	8-729-993-43	TRANSISTOR	2SA934R				R204	1-249-393-11	CARBON	10	5%	1/4W	
Q504	8-729-194-57	TRANSISTOR	2SC945TP-P				R205	1-249-401-11	CARBON	47	5%	1/4W	
Q505	8-729-993-43	TRANSISTOR	2SA934R				R206	1-249-401-11	CARBON	47	5%	1/4W	
Q506	8-729-194-57	TRANSISTOR	2SC945TP-P				R207	1-249-428-11	CARBON	8.2K	5%	1/4W	
Q551	8-729-194-57	TRANSISTOR	2SC945TP-P				R208	1-249-428-11	CARBON	8.2K	5%	1/4W	
Q552	8-729-194-57	TRANSISTOR	2SC945TP-P				R209	1-247-889-00	CARBON	270K	5%	1/4W	
Q803	8-729-048-99	FET	2SK2541-T				R210	1-247-889-00	CARBON	270K	5%	1/4W	
Q804	8-729-048-99	FET	2SK2541-T				R211	1-247-891-00	CARBON	330K	5%	1/4W	
Q805	8-729-232-32	TRANSISTOR	2SA965-O/Y (TPE6)				R212	1-247-891-00	CARBON	330K	5%	1/4W	
< RESISTOR >							R213	1-247-847-11	CARBON	4.7K	5%	1/4W	
R100	1-249-427-11	CARBON	6.8K	5%	1/4W		R214	1-247-847-11	CARBON	4.7K	5%	1/4W	
R105	1-249-411-11	CARBON	330	5%	1/4W		R215	1-247-891-00	CARBON	330K	5%	1/4W	
R106	1-247-849-11	CARBON	5.6K	5%	1/4W		R216	1-247-891-00	CARBON	330K	5%	1/4W	
R107	1-249-427-11	CARBON	6.8K	5%	1/4W		R219	1-247-871-11	CARBON	47K	5%	1/4W	
R112	1-247-698-11	CARBON	68	5%	1/4W		R220	1-247-863-11	CARBON	22K	5%	1/4W	
R113	1-249-417-11	CARBON	1K	5%	1/4W		R221	1-247-855-11	CARBON	10K	5%	1/4W	
R114	1-247-871-11	CARBON	47K	5%	1/4W		R222	1-247-704-11	CARBON	220	5%	1/4W	
R115	1-249-417-11	CARBON	1K	5%	1/4W		R223	1-247-885-00	CARBON	180K	5%	1/4W	
R116	1-247-692-11	CARBON	22	5%	1/4W		R224	1-247-885-00	CARBON	180K	5%	1/4W	
R117	1-247-839-11	CARBON	2.2K	5%	1/4W		R225	1-247-863-11	CARBON	22K	5%	1/4W	
R118	1-247-807-11	CARBON	100	5%	1/4W		R226	1-247-863-11	CARBON	22K	5%	1/4W	
R119	1-247-807-11	CARBON	100	5%	1/4W		R227	1-247-881-00	CARBON	120K	5%	1/4W	
R120	1-247-843-11	CARBON	3.3K	5%	1/4W		R228	1-247-881-00	CARBON	120K	5%	1/4W	
R121	1-249-432-11	CARBON	18K	5%	1/4W		R229	1-249-418-11	CARBON	1.2K	5%	1/4W	
R123	1-249-428-11	CARBON	8.2K	5%	1/4W		R230	1-249-418-11	CARBON	1.2K	5%	1/4W	
R124	1-247-843-11	CARBON	3.3K	5%	1/4W		R231	1-247-839-11	CARBON	2.2K	5%	1/4W	
R126	1-247-843-11	CARBON	3.3K	5%	1/4W		R232	1-247-839-11	CARBON	2.2K	5%	1/4W	
R127	1-247-843-11	CARBON	3.3K	5%	1/4W		R233	1-247-863-11	CARBON	22K	5%	1/4W	
R128	1-249-431-11	CARBON	15K	5%	1/4W		R234	1-247-863-11	CARBON	22K	5%	1/4W	
R129	1-249-431-11	CARBON	15K	5%	1/4W		R235	1-247-847-11	CARBON	4.7K	5%	1/4W	
R130	1-249-405-11	CARBON	100	5%	1/4W		R236	1-247-847-11	CARBON	4.7K	5%	1/4W	
R131	1-247-713-11	CARBON	1K	5%	1/4W		R237	1-247-855-11	CARBON	10K	5%	1/4W	
R132	1-247-855-11	CARBON	10K	5%	1/4W		R239	1-249-381-11	CARBON	1	5%	1/4W	
R133	1-247-849-11	CARBON	5.6K	5%	1/4W		R240	1-247-855-11	CARBON	10K	5%	1/4W	
R134	1-247-855-11	CARBON	10K	5%	1/4W		R241	1-247-847-11	CARBON	4.7K	5%	1/4W	
R135	1-249-417-11	CARBON	1K	5%	1/4W		R242	1-247-847-11	CARBON	4.7K	5%	1/4W	
R136	1-247-879-11	CARBON	100K	5%	1/4W		R243	1-249-430-11	CARBON	12K	5%	1/4W	
R137	1-247-855-11	CARBON	10K	5%	1/4W		R244	1-247-839-11	CARBON	2.2K	5%	1/4W	
R138	1-247-807-11	CARBON	100	5%	1/4W		R245	1-247-839-11	CARBON	2.2K	5%	1/4W	
R139	1-247-855-11	CARBON	10K	5%	1/4W		R246	1-249-434-11	CARBON	27K	5%	1/4W	
R140	1-247-839-11	CARBON	2.2K	5%	1/4W		R247	1-247-855-11	CARBON	10K	5%	1/4W	
R141	1-247-839-11	CARBON	2.2K	5%	1/4W		R248	1-247-847-11	CARBON	4.7K	5%	1/4W	
R142	1-247-839-11	CARBON	2.2K	5%	1/4W		R251	1-249-434-11	CARBON	27K	5%	1/4W	
R143	1-247-839-11	CARBON	2.2K	5%	1/4W		R252	1-249-393-11	CARBON	10	5%	1/4W	
R144	1-249-411-11	CARBON	330	5%	1/4W		R253	1-247-708-11	CARBON	470	5%	1/4W	
R147	1-247-843-11	CARBON	3.3K	5%	1/4W		R254	1-247-839-11	CARBON	2.2K	5%	1/4W	
R151	1-247-843-11	CARBON	3.3K	5%	1/4W		R255	1-247-847-11	CARBON	4.7K	5%	1/4W	
R155	1-247-843-11	CARBON	3.3K	5%	1/4W		R261	1-247-843-11	CARBON	3.3K	5%	1/4W	
R156	1-247-855-11	CARBON	10K	5%	1/4W		R262	1-247-843-11	CARBON	3.3K	5%	1/4W	
R157	1-247-855-11	CARBON	10K	5%	1/4W		R301	1-249-427-11	CARBON	6.8K	5%	1/4W	
R172	1-247-847-11	CARBON	4.7K	5%	1/4W		R302	1-249-427-11	CARBON	6.8K	5%	1/4W	
R173	1-247-867-11	CARBON	33K	5%	1/4W		R303	1-249-417-11	CARBON	1K	5%	1/4W	
R174	1-249-409-11	CARBON	220	5%	1/4W		R304	1-249-417-11	CARBON	1K	5%	1/4W	
R175	1-249-431-11	CARBON	15K	5%	1/4W		R309	1-249-427-11	CARBON	6.8K	5%	1/4W	
R201	1-249-393-11	CARBON	10	5%	1/4W		R310	1-249-427-11	CARBON	6.8K	5%	1/4W	

MAIN

MOTOR

Ref. No.	Part No.	Description	Remark
R311	1-247-847-11	CARBON	4.7K 5% 1/4W
R312	1-247-847-11	CARBON	4.7K 5% 1/4W
R313	1-247-871-11	CARBON	47K 5% 1/4W
R314	1-249-465-11	CARBON	47K 5% 1/4W
R315	1-247-871-11	CARBON	47K 5% 1/4W
R316	1-249-465-11	CARBON	47K 5% 1/4W
R317	1-247-871-11	CARBON	47K 5% 1/4W
R318	1-249-465-11	CARBON	47K 5% 1/4W
R319	1-247-871-11	CARBON	47K 5% 1/4W
R320	1-247-871-11	CARBON	47K 5% 1/4W
R323	1-247-871-11	CARBON	47K 5% 1/4W
R324	1-247-871-11	CARBON	47K 5% 1/4W
R325	1-247-839-11	CARBON	2.2K 5% 1/4W
R326	1-247-839-11	CARBON	2.2K 5% 1/4W
R327	1-247-839-11	CARBON	2.2K 5% 1/4W
R328	1-247-855-11	CARBON	10K 5% 1/4W
R329	1-249-430-11	CARBON	12K 5% 1/4W
R330	1-249-417-11	CARBON	1K 5% 1/4W
R331	1-249-417-11	CARBON	1K 5% 1/4W
R332	1-247-871-11	CARBON	47K 5% 1/4W
R333	1-247-871-11	CARBON	47K 5% 1/4W
R334	1-247-849-11	CARBON	5.6K 5% 1/4W
R335	1-247-849-11	CARBON	5.6K 5% 1/4W
R336	1-247-711-11	CARBON	680 5% 1/4W
R337	1-247-711-11	CARBON	680 5% 1/4W
△ R339	1-215-857-11	METAL OXIDE	10 5% 1W F
R341	1-247-708-11	CARBON	470 5% 1/4W
R342	1-247-713-11	CARBON	1K 5% 1/4W
R345	1-249-464-11	CARBON	39K 5% 1/4W
R346	1-249-464-11	CARBON	39K 5% 1/4W
R347	1-247-903-00	CARBON	1M 5% 1/4W
R349	1-247-714-11	CARBON	1.2K 5% 1/4W
R350	1-247-711-11	CARBON	680 5% 1/4W
R352	1-247-863-11	CARBON	22K 5% 1/4W
R358	1-247-708-11	CARBON	470 5% 1/4W
R359	1-260-238-11	CARBON	2.2M 5% 1/4W
R360	1-260-238-11	CARBON	2.2M 5% 1/4W
R361	1-247-855-11	CARBON	10K 5% 1/4W
R362	1-247-855-11	CARBON	10K 5% 1/4W
R363	1-249-418-11	CARBON	1.2K 5% 1/4W
R364	1-249-418-11	CARBON	1.2K 5% 1/4W
R501	1-247-713-11	CARBON	1K 5% 1/4W
R502	1-249-417-11	CARBON	1K 5% 1/4W
R503	1-249-417-11	CARBON	1K 5% 1/4W
R504	1-247-847-11	CARBON	4.7K 5% 1/4W
R505	1-249-417-11	CARBON	1K 5% 1/4W
R506	1-249-417-11	CARBON	1K 5% 1/4W
R507	1-249-417-11	CARBON	1K 5% 1/4W
R508	1-247-847-11	CARBON	4.7K 5% 1/4W
R509	1-247-839-11	CARBON	2.2K 5% 1/4W
R510	1-247-855-11	CARBON	10K 5% 1/4W
R511	1-247-855-11	CARBON	10K 5% 1/4W
R512	1-249-417-11	CARBON	1K 5% 1/4W
R513	1-247-846-11	CARBON	4.3K 5% 1/4W
R514	1-247-855-11	CARBON	10K 5% 1/4W
R515	1-249-417-11	CARBON	1K 5% 1/4W
R516	1-249-417-11	CARBON	1K 5% 1/4W
R517	1-247-847-11	CARBON	4.7K 5% 1/4W

Ref. No.	Part No.	Description	Remark
R518	1-249-462-11	CARBON	22K 5% 1/4W
R519	1-247-847-11	CARBON	4.7K 5% 1/4W
R520	1-247-847-11	CARBON	4.7K 5% 1/4W
R521	1-247-721-11	CARBON	4.7K 5% 1/4W
R522	1-247-721-11	CARBON	4.7K 5% 1/4W
R523	1-247-847-11	CARBON	4.7K 5% 1/4W
R524	1-249-462-11	CARBON	22K 5% 1/4W
R525	1-247-855-11	CARBON	10K 5% 1/4W
R526	1-249-417-11	CARBON	1K 5% 1/4W
R527	1-249-413-11	CARBON	470 5% 1/4W
R528	1-247-847-11	CARBON	4.7K 5% 1/4W
R551	1-247-855-11	CARBON	10K 5% 1/4W
R553	1-247-885-00	CARBON	180K 5% 1/4W
R554	1-247-899-11	CARBON	680K 5% 1/4W
R555	1-247-855-11	CARBON	10K 5% 1/4W
R556	1-249-411-11	CARBON	330 5% 1/4W
R557	1-247-885-00	CARBON	180K 5% 1/4W
R558	1-247-899-11	CARBON	680K 5% 1/4W
R559	1-247-855-11	CARBON	10K 5% 1/4W
R560	1-249-411-11	CARBON	330 5% 1/4W
R561	1-247-855-11	CARBON	10K 5% 1/4W
R562	1-247-879-11	CARBON	100K 5% 1/4W
R563	1-247-704-11	CARBON	220 5% 1/4W
R572	1-247-871-11	CARBON	47K 5% 1/4W
△ R800	1-215-892-11	METAL OXIDE	1K 5% 2W F
R801	1-247-708-11	CARBON	470 5% 1/4W
R802	1-247-708-11	CARBON	470 5% 1/4W
R803	1-247-717-11	CARBON	2.2K 5% 1/4W
R804	1-247-847-11	CARBON	4.7K 5% 1/4W
R805	1-247-855-11	CARBON	10K 5% 1/4W
△ R806	1-215-863-11	METAL OXIDE	100 5% 1W F
R807	1-247-708-11	CARBON	470 5% 1/4W
R808	1-249-459-11	CARBON	12K 5% 1/4W
R809	1-249-459-11	CARBON	12K 5% 1/4W
△ R810	1-215-893-11	METAL OXIDE	1.5K 5% 2W F
R205A	1-249-409-11	CARBON	220 5% 1/4W
R206A	1-249-409-11	CARBON	220 5% 1/4W

< VARIABLE RESISTOR >

SFR101 1-238-019-11 RES, ADJ, CARBON 47K
SFR501 1-241-762-11 RES, ADJ, CARBON 2.2K

< TRANSFORMER >

T102 1-429-554-11 TRANSFORMER, AM IFT

< VIBRATOR >

X101 1-579-585-11 VIBRATOR, CRYSTAL (7.2MHz)

1-674-792-11 MOTOR BOARD

< CAPACITOR >

C01 1-124-259-11 ELECT 4.7uF 20% 50V

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MOTOR**SENSOR****SOCKET****SW A****SW B****SW C****SW D****TR**

Ref. No.	Part No.	Description	Remark		
< CONNECTOR >					
* CN06	1-568-824-11	SOCKET, CONNECTOR 5P	*****		
A-4473-602-A SENSOR BOARD, COMPLETE					

< CAPACITOR >					
C644	1-126-964-11	ELECT	10uF	20%	50V
< IC >					
RM601	8-749-013-84	IC SPS-447-1	*****		
A-4473-612-A SOCKET BOARD, COMPLETE					

< CAPACITOR >					
C710A	1-164-159-11	CERAMIC	0.1uF		50V
< IC>					
PH701	8-749-923-04	IC TOTX178A	*****		
1-674-788-11 SW A BOARD					

< SWITCH >					
S04	1-771-169-11	SWITCH (TURN TABLE OPERATION DETECT)	*****		
1-674-789-11 SW B BOARD					

S03	1-771-169-11	SWITCH (TURN TABLE POSITION DETECT)	*****		
1-674-790-11 SW C BOARD					

S02	1-571-300-31	SWITCH, ROTARY (OPEN/CLOSE DETECT)	*****		
1-674-791-11 SW D BOARD					

S01	1-571-300-31	SWITCH, ROTARY (OPTICAL PICK-UP UP/DOWN DETECT)	*****		
A-4473-606-A TR BOARD, COMPLETE					

< CAPACITOR >					
C840	1-161-494-00	CERAMIC	0.022uF		25V
C841	1-161-494-00	CERAMIC	0.022uF		25V
< TRANSISTOR >					
Q801	8-729-822-89	TRANSISTOR 2SD1667-R			
Q802	8-729-822-89	TRANSISTOR 2SD1667-R	*****		

Ref. No.	Part No.	Description	Remark
MISCELLANEOUS			

69	1-769-273-11	WIRE (FLAT TYPE) (22 CORE)	
72	1-772-163-11	DECK, MECH	
151	1-769-856-11	WIRE (FLAT TYPE) (5 CORE)	
△ 205	1-796-266-11	OPTICAL PICK-UP	
253	1-792-850-11	WIRE (FLAT TYPE) (16 CORE)	
262	1-783-531-51	CORD, POWER (US, Canadian)	
CN705	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P	
M101	1-541-352-12	MOTOR (SPINDLE)	
M102	1-541-353-12	MOTOR (SLED)	
M103	X-4948-765-1	MOTOR ASSY (TURN TABLE)	
M104	X-4948-766-1	MOTOR ASSY (A) (TRAY)	
S05	1-572-085-11	SWITCH, LEAF (LIMIT)	
△ T001	1-435-611-11	TRANSFORMER, POWER (US)	

HARDWARE LIST			

#1	7-685-246-19	SCREW +KTP 3X8 TYPE2 SLIT	
#3	7-685-903-31	SCREW +PTPWH 3X10 (TYPE2)	
#4	7-682-904-11	SCREW +PWH 4X8	
#5	7-685-647-79	SCREW +BVTP 3X10 TYPE2 TT(B)	
#6	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
#8	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#9	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S	
#10	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#11	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	
#12	7-624-118-01	RING, RETAINING E-2.5	
#13	7-685-903-21	SCREW +PTPWH 3X8 (TYPE2)	
#14	7-685-535-19	SCREW +BTP 2.6X10 TYPE2 N-S	
#15	7-685-547-19	SCREW +BTP 3X10 TYPE2 N-S	
#16	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S	
#17	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#18	7-685-647-14	SCREW +BVTP 3X10 TYPE2 N-S	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

HCD-BX2/DX2/DX2B

SONY®

SERVICE MANUAL

2000.11

US Model
Canadian Model
AEP Model
UK Model
HCD-BX2

E Model
HCD-DX2/DX2B

Australian Model
HCD-DX2

SUPPLEMENT-1

File this supplement with the service manual.

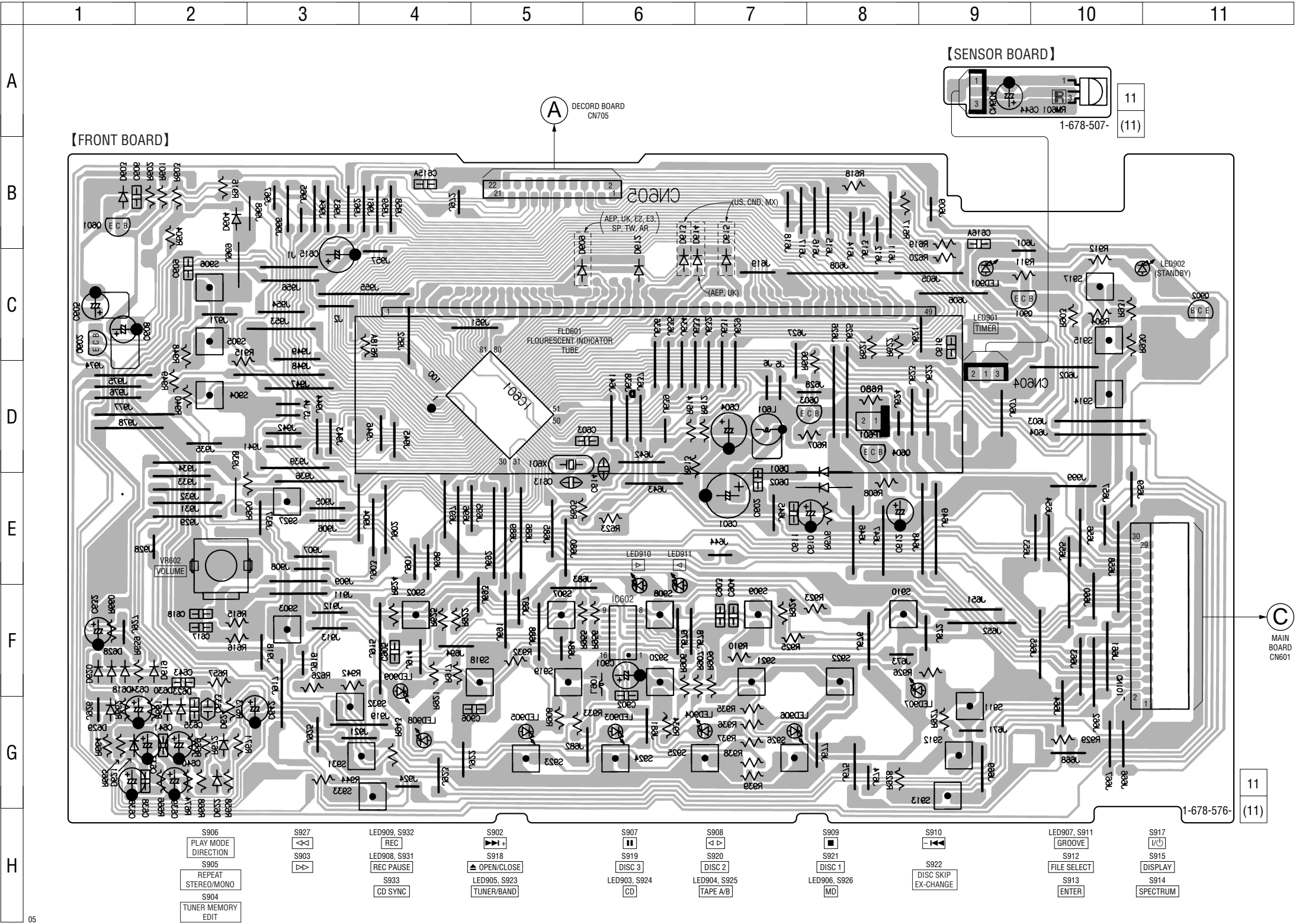
Subject:

1. Addition of Printed Wiring Board
2. Addition and Change of Information

MEMO

1. Addition of Printed Wiring Board

PRINTED WIRING BOARD – PANEL Section –



• Semiconductor Location

Ref. No.	Location
D601	D-8
D602	E-8
D603	B-1
D604	B-2
D609	C-6
D612	C-6
D613	C-6
D614	C-7
D615	C-7
D618	F-1
D619	F-2
D620	F-1
D621	G-1
D622	G-2
D623	G-2
D624	G-2
D628	F-1
D629	G-1
D630	G-2
IC601	D-5
IC602	F-6
LED901	C-9
LED902	C-11
LED903	G-6
LED904	G-7
LED905	G-5
LED906	G-7
LED907	F-8
LED908	G-4
LED909	F-4
LED910	E-6
LED911	E-6
Q601	B-1
Q602	C-1
Q603	D-8
Q604	D-8
Q901	C-9
Q902	C-11
RM601	A-10

Note on Printed Wiring Board:

- : parts extracted from the conductor side.
 - : panel designation.
 - ▨ : Pattern from the side which enables seeing.
- (The other layers' patterns are not indicated.)

• Abbreviation

- AR : Argentine model
- AUS : Australian model
- CND : Canadian model
- E2 : 120 V AC Area in E model
- E3 : 240 V AC Area in E model
- KR : Korean model
- MX : Mexican model
- SP : Singapore model
- TW : Taiwan model

2. Addition of Information of Destination

• SCHEMATIC DIAGRAM – AMP/POWER SUPPLY Section –

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
--	---	---	---	---	---	---	---	---	---	----	----	----	----	----

A

B

C

D

D

E

F

G

H

【AMP BOARD】(BX2/DX2 : SP, TW, KR, MX, AUS models)

IC401
POWER AMP

Q407, 408
HEADPHONE MUTE

【H/P BOARD】

SPEAKER
IMPEDANCE
USE 6-16Ω

(BX2/DX2 : KR, MX, AUS)

【FUSE BOARD】

【AC SW BOARD】

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. U: μF , pF: μF 50 WV or less are not indicated except for electrolytics and tantalums.
- If a numeric value of capacitor is a decimal fraction, the preceding zero may be omitted. (For example, .1 expresses 0.1)
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- : fusible resistor.
- : nonflammable resistor.
- : panel designation.

Note:
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- $\boxed{B+}$: B+ Line.
- $\boxed{B-}$: B- Line.
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- \Rightarrow : FM
- Abbreviation
- AUS : Australian model
- CND : Canadian model
- KR : Korean model
- MX : Mexican model
- SP : Singapore model
- TW : Taiwan model

- **SCHEMATIC DIAGRAM**

👉 : Indicates changed portion.

Page	Before Change	After Change
20	<p>Location A – B, 9 – 11</p>	<p>Location A – B, 9 – 11</p>
	<p>Location D – F, 14 – 17</p>	<p>Location D – F, 14 – 17</p>
	<p>Location G – J, 4 – 7</p>	<p>Location G – J, 4 – 7</p>

– Continued on next page –

Page	Before Change	After Change
25	<p>Location I – L, 9 – 12</p>	<p>Location I – L, 9 – 12</p>
31	<p>Location A – B, 1 – 3</p> <p>Location B – G, 4 – 7</p>	<p>Location A – B, 1 – 3</p> <p>Location B – G, 4 – 7</p>

• Abbreviation

AR : Argentine model	E2 : 120 V AC Area in E model	SP : Singapore model
AUS : Australian model	E3 : 240 V AC Area in E model	TW : Taiwan model
CND : Canadian model	MX : Mexican model	

 : Indicates changed portion.

 : Indicates changed portion.

7

Page	Before Change	After Change
28	<p>Location A – C, 2 – 4</p> <p>【 AMP BOARD 】 (US, CND, AEP, UK, AUS models)</p>	

- Abbreviation

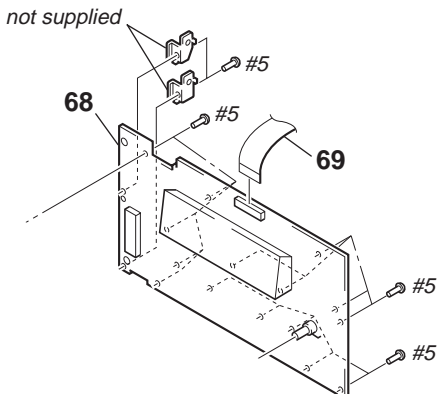
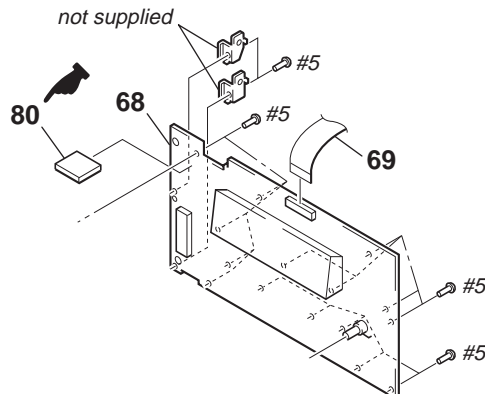
AR : Argentine model
AUS : Australian model
CND : Canadian model

E2 : 120 V AC Area in E model
E3 : 240 V AC Area in E model
KR : Korean model

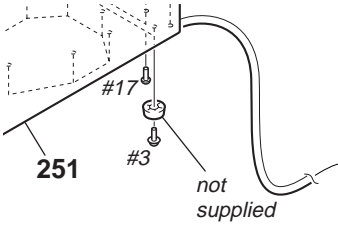
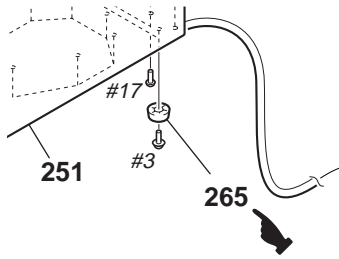
MX : Mexican model
SP : Singapore model
TW : Taiwan model

• EXPLODED VIEWS

 : Indicates changed portion.

Page	Before Change				After Change			
	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
37	3	4-229-453-01	DOOR, CD		3	4-229-453-01	DOOR, CD (BX2/DX2: MX)	
					3	4-231-356-01	DOOR, CD (DX2: E2, E3, SP, TW, KR, AUS)	
					3	4-231-411-01	DOOR (B), CD (BLACK)	
38	53	4-229-455-01	DOOR (R), CASSETTE		53	4-229-455-01	DOOR (R), CASSETTE (BX2/DX2: E2, E3, SP, TW, KR, MX, AUS)	
					53	4-231-412-01	DOOR (B) (R), CASSETTE (BLACK)	
	62	4-229-456-01	DOOR (L), CASSETTE		62	4-229-456-01	DOOR (L), CASSETTE (BX2/DX2: E2, E3, SP, TW, KR, MX, AUS)	
					62	4-231-413-01	DOOR (B) (L), CASSETTE (BLACK)	
	63	4-229-472-01	PANEL, FRONT		63	4-229-472-01	PANEL, FRONT (BX2/DX2: E2, E3, SP, TW, KR, MX, AUS)	
					63	4-231-414-01	PANEL (B), FRONT (BLACK)	
	68	A-4473-599-A	FRONT BOARD, COMPLETE		68	A-4473-599-A	FRONT BOARD, COMPLETE (US, CND, MX)	
					68	A-4473-996-A	FRONT BOARD, COMPLETE (AEP, UK)	
					68	A-4475-325-A	FRONT BOARD, COMPLETE (E2, E3, SP, TW, AR)	
					68	A-4475-331-A	FRONT BOARD, COMPLETE (KR, AUS)	
	77	4-229-454-01	WINDOW, DISPLAY		77	4-229-454-01	WINDOW, DISPLAY (US, CND, E, AUS)	
				77	4-230-068-01	WINDOW, DISPLAY (AEP, UK)		
				80	A-4473-602-A	SENSOR BOARD, COMPLETE		
								

– Continued on next page –

Page	Before Change				After Change			
39	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
	251	4-229-486-01	CABINET, BOTTOM		251	4-229-486-01	CABINET, BOTTOM (US, CND, MX)	
					251	4-230-066-01	CABINET, BOTTOM (AEP, UK)	
					251	4-230-069-01	CABINET, BOTTOM (CIS)	
					251	4-231-357-01	CABINET, BOTTOM (EXCEPT BX2/DX2: MX)	
	254	A-4473-603-A	MAIN BOARD, COMPLETE		254	A-4473-603-A	MAIN BOARD, COMPLETE (US, CND, E, AUS)	
					254	A-4473-999-A	MAIN BOARD, COMPLETE (AEP, UK)	
	255	A-4473-607-A	AMP BOARD, COMPLETE		255	A-4473-607-A	AMP BOARD, COMPLETE (US, CND, MX)	
					255	A-4475-001-A	AMP BOARD, COMPLETE (AEP, UK)	
					255	A-4475-328-A	AMP BOARD, COMPLETE (SP, TW, KR, AUS)	
					255	A-4475-333-A	AMP BOARD, COMPLETE (E2, E3, AR)	
	△ 262	1-783-531-51	CORD, POWER		△ 262	1-783-531-51	CORD, POWER (US, CND)	
					△ 262	1-555-795-00	CORD, POWER (AEP, E3)	
					△ 262	1-696-570-21	CORD, POWER (UK)	
					△ 262	1-696-966-11	CORD, POWER (E2, SP, TW, AUS)	
					△ 262	1-776-985-21	CORD, POWER (KR)	
					△ 262	1-783-941-52	CORD, POWER (AR)	
					△ 262	1-558-943-41	CORD, POWER (MX)	
					265	4-230-067-01	FOOT (B)	
	△ T001	1-435-611-11	TRANSFORMER, POWER		△ T001	1-435-611-11	TRANSFORMER, POWER (US, CND, MX)	
					△ T001	1-435-630-11	TRANSFORMER, POWER (AEP, UK)	
					△ T001	1-435-631-11	TRANSFORMER, POWER (EXCEPT BX2/DX2: MX)	
								
40					122	4-229-502-01	PLATE (A), CHANGER	

• Abbreviation

AR : Argentine model
AUS : Australian model
CND : Canadian model

E2 : 120 V AC Area in E model
E3 : 240 V AC Area in E model
KR : Korean model

MX : Mexican model
SP : Singapore model
TW : Taiwan model

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• ELECTRICAL PARTS LIST

AC SW

AMP

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Abbreviation
AR : Argentine model
AUS : Australian model
CND : Canadian model

E2 : 120 V AC Area in E model
E3 : 240 V AC Area in E model
KR : Korean model

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . : μ A. . uPA. . : μ PA. .
uPB. . : μ PB. . uPC. . : μ PC. .
uPD. . : μ PD. .
- CAPACITORS
uF: μ F
- COILS
uH: μ H

MX : Mexican model
SP : Singapore model
TW : Taiwan model

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		AC SW BOARD (E2, E3, SP, TW, AR)		C414	1-162-199-31	CERAMIC	10PF 5% 50V
		*****		C415	1-130-777-00	MYLAR	0.1uF 5% 100V
		< SWITCH >					(BX2/DX2: SP, TW, KR, MX, AUS)
				C415	1-137-399-11	MYLAR	0.1uF 5% 100V
							(E2, E3, AR)
Δ S001	1-771-991-11	SLIDE SW (VOLTAGE SELECTOR)		C416	1-130-777-00	MYLAR	0.1uF 5% 100V
		*****					(BX2/DX2: SP, TW, KR, MX, AUS)
	A-4473-607-A	AMP BOARD, COMPLETE (US, CND, MX)		C416	1-137-399-11	MYLAR	0.1uF 5% 100V
	A-4475-001-A	AMP BOARD, COMPLETE (AEP, UK)					(E2, E3, AR)
	A-4475-328-A	AMP BOARD, COMPLETE (SP, TW, KR, AUS)		C417	1-161-494-00	CERAMIC	0.022uF 25V
	A-4475-333-A	AMP BOARD, COMPLETE (E2, E3, AR)		C418	1-161-494-00	CERAMIC	0.022uF 25V
		*****		C419	1-107-714-11	ELECT	10uF 20% 50V
*	1-533-213-31	HOLDER, FUSE (BX2/DX2: KR, MX, AUS)		C421	1-126-933-11	ELECT	100uF 20% 16V
	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S		C422	1-126-961-11	ELECT	2.2uF 20% 50V
		(BX2/DX2: SP, TW, KR, MX, AUS)		C423	1-162-294-31	CERAMIC	0.001uF 10% 50V
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S					(AEP, UK)
		(BX2/DX2: SP, TW, KR, MX, AUS)		C424	1-162-294-31	CERAMIC	0.001uF 10% 50V
	7-685-648-79	SCREW +BVTP3X12 TYPE2 N-S					(AEP, UK)
		(BX2/DX2: SP, TW, KR, MX, AUS)		C425	1-162-294-31	CERAMIC	0.001uF 10% 50V
		< CAPACITOR >					(AEP, UK)
	C400	1-161-494-00 CERAMIC	0.022uF 25V	C426	1-162-294-31	CERAMIC	0.001uF 10% 50V
	C401	1-109-953-11 ELECT	2.2uF 20% 50V				(AEP, UK)
	C402	1-109-953-11 ELECT	2.2uF 20% 50V	C427	1-128-582-11	ELECT	10uF 20% 63V
	C403	1-162-292-31 CERAMIC	680PF 10% 50V				(E2, E3, AR)
	C404	1-162-292-31 CERAMIC	680PF 10% 50V	C427	1-164-159-11	CERAMIC	0.1uF 50V
							(BX2/DX2: SP, TW, KR, MX, AUS)
	C405	1-104-664-11 ELECT	47uF 20% 25V	C428	1-109-953-11	ELECT	2.2uF 20% 50V
	C406	1-104-664-11 ELECT	47uF 20% 25V	C429	1-162-286-31	CERAMIC	220PF 10% 50V
	C407	1-126-964-11 ELECT	10uF 20% 50V	C430	1-162-286-31	CERAMIC	220PF 10% 50V
		(BX2/DX2: SP, TW, KR, MX, AUS)		C431	1-128-582-11	ELECT	10uF 20% 63V
	C407	1-128-582-11 ELECT	10uF 20% 63V				(E2, E3, AR)
		(E2, E3, AR)		C431	1-161-494-00	CERAMIC	0.022uF 25V
	C408	1-126-964-11 ELECT	10uF 20% 50V				(BX2/DX2: MX)
		(BX2/DX2: SP, TW, KR, MX, AUS)		C432	1-128-582-11	ELECT	10uF 20% 63V
							(E2, E3, AR)
	C409	1-164-159-11 CERAMIC	0.1uF 50V	C432	1-161-494-00	CERAMIC	0.022uF 25V
	C410	1-126-964-11 ELECT	10uF 20% 50V				(BX2/DX2: MX)
		(BX2/DX2: SP, TW, KR, MX, AUS)		C433	1-126-941-11	ELECT	470uF 20% 25V
	C410	1-164-159-11 CERAMIC	0.1uF 50V				(BX2/DX2: MX)
		(E2, E3, AR)		C435	1-161-494-00	CERAMIC	0.022uF 25V
	C411	1-126-964-11 ELECT	10uF 20% 50V				(BX2/DX2: MX)
		(BX2/DX2: SP, TW, KR, MX, AUS)		C437	1-126-933-11	ELECT	100uF 20% 16V
	C411	1-128-582-11 ELECT	10uF 20% 63V				(BX2/DX2: MX)
		(E2, E3, AR)					
	C412	1-128-582-11 ELECT	10uF 20% 63V	C438	1-126-933-11	ELECT	100uF 20% 16V
		(E2, E3, AR)					(BX2/DX2: MX)
	C413	1-162-199-31 CERAMIC	10PF 5% 50V				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C439	1-161-494-00	CERAMIC	0.022uF 25V (BX2/DX2: MX)	< RESISTOR >			
C441	1-161-494-00	CERAMIC	0.022uF 25V (BX2/DX2: MX)	△ R001	1-219-238-11	SOLID	4.7M 20% 1/2W F (US, CND, MX)
C442	1-161-494-00	CERAMIC	0.022uF 25V (BX2/DX2: MX)	R400	1-249-418-11	CARBON	1.2K 5% 1/4W
△ C450	1-113-924-11	CERAMIC	0.0047uF 20% 250V (BX2/DX2: MX)	R401	1-247-879-11	CARBON	100K 5% 1/4W
< CONNECTOR >				R402	1-247-879-11	CARBON	100K 5% 1/4W
CN701	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P		R403	1-247-839-11	CARBON	2.2K 5% 1/4W
< DIODE >				R404	1-247-839-11	CARBON	2.2K 5% 1/4W
D401	8-719-911-19	DIODE 1SS133T-72		R405	1-249-438-11	CARBON	56K 5% 1/4W
D402	8-719-911-19	DIODE 1SS133T-72		R406	1-249-438-11	CARBON	56K 5% 1/4W
D403	8-719-911-19	DIODE 1SS133T-72		R407	1-247-839-11	CARBON	2.2K 5% 1/4W
D404	8-719-911-19	DIODE 1SS133T-72		R408	1-247-839-11	CARBON	2.2K 5% 1/4W
D405	8-719-911-19	DIODE 1SS133T-72		R409	1-249-438-11	CARBON	56K 5% 1/4W
D407	8-719-200-02	DIODE 1N4002 (BX2/DX2: MX)		R410	1-249-438-11	CARBON	56K 5% 1/4W
D408	8-719-200-02	DIODE 1N4002 (BX2/DX2: MX)		R411	1-247-713-11	CARBON	1K 5% 1/4W (E2, E3, AR)
D409	8-719-911-19	DIODE 1SS133T-72 (BX2/DX2: MX)		R411	1-249-405-11	CARBON	100 5% 1/4W (AEP, UK)
D410	8-719-010-44	DIODE UZ-6.2BS (BX2/DX2: MX)		R411	1-249-459-11	CARBON	12K 5% 1/4W (US, CND, MX, SP, TW, KR, MX, AUS)
D411	8-719-200-02	DIODE 1N4002 (BX2/DX2: MX)		R412	1-247-713-11	CARBON	1K 5% 1/4W (E2, E3, AR)
D412	8-719-200-02	DIODE 1N4002 (BX2/DX2: MX)		R412	1-249-417-11	CARBON	1K 5% 1/4W (BX2/DX2: SP, TW, KR, MX, AUS)
< FUSE >				R413	1-249-417-11	CARBON	1K 5% 1/4W
△ F401	1-532-388-31	FUSE (T2AL/250V) (AEP, UK, KR, AUS)		R414	1-249-405-11	CARBON	100 5% 1/4W (AEP, UK)
△ F401	1-576-108-11	FUSE (4A/125V) (US, CND, MX)		R414	1-249-417-11	CARBON	1K 5% 1/4W (E2, E3, AR)
< IC >				R414	1-249-459-11	CARBON	12K 5% 1/4W (US, CND, MX, SP, TW, KR, MX, AUS)
IC401	8-749-016-94	IC STK402-090S (BX2/DX2: SP, TW, KR, MX, AUS)		R415	1-249-431-11	CARBON	15K 5% 1/4W
IC401	8-749-900-34	IC STK4182MK2 (E2, E3, AR)		R416	1-249-431-11	CARBON	15K 5% 1/4W
< JACK >				R417	1-247-879-11	CARBON	100K 5% 1/4W
JK401	1-694-604-11	TERMINAL, SPEAKER (4P)		R418	1-247-879-11	CARBON	100K 5% 1/4W
< COIL >				△ R419	1-220-890-11	METAL	0.22 10% 3W F
L401	1-420-872-00	COIL, AIR-CORE (AEP, UK)		△ R420	1-220-890-11	METAL	0.22 10% 3W F
L402	1-420-872-00	COIL, AIR-CORE (AEP, UK)		R421	1-249-438-11	CARBON	56K 5% 1/4W
< TRANSISTOR >				R422	1-247-871-11	CARBON	47K 5% 1/4W
Q401	8-729-231-55	TRANSISTOR 2SC2878-A		R423	1-247-717-11	CARBON	2.2K 5% 1/4W (E2, E3, AR)
Q402	8-729-231-55	TRANSISTOR 2SC2878-A		R424	1-247-717-11	CARBON	2.2K 5% 1/4W (E2, E3, AR)
Q403	8-729-184-53	TRANSISTOR 2SC1841-EA		R427	1-249-455-11	CARBON	4.7 5% 1/4W
Q404	8-729-184-53	TRANSISTOR 2SC1841-EA		R428	1-249-455-11	CARBON	4.7 5% 1/4W
Q407	8-729-231-55	TRANSISTOR 2SC2878-A		R429	1-249-405-11	CARBON	100 5% 1/4W (E2, E3, AR)
Q408	8-729-231-55	TRANSISTOR 2SC2878-A		R430	1-249-433-11	CARBON	22K 5% 1/4W
Q409	8-729-207-35	FET 2SJ105-Y		R431	1-247-847-11	CARBON	4.7K 5% 1/4W
Q410	8-729-142-46	TRANSISTOR 2SC2001-L		R432	1-247-867-11	CARBON	33K 5% 1/4W
Q411	8-729-184-53	TRANSISTOR 2SC1841-EA		R434	1-247-871-11	CARBON	47K 5% 1/4W
Q412	8-729-119-76	TRANSISTOR 2SA733-P		R435	1-247-855-11	CARBON	10K 5% 1/4W
Q413	8-729-142-46	TRANSISTOR 2SC2001-L		R436	1-249-433-11	CARBON	22K 5% 1/4W
Q414	8-729-142-46	TRANSISTOR 2SC2001-L		R437	1-247-879-11	CARBON	100K 5% 1/4W
Q415	8-729-194-57	TRANSISTOR 2SC945TP-P (BX2/DX2: MX)		△ R439	1-215-867-00	METAL OXIDE	470 5% 1W F
Q416	8-729-140-96	TRANSISTOR 2SC2060-R (BX2/DX2: MX)		△ R440	1-215-867-00	METAL OXIDE	470 5% 1W F
				R441	1-247-843-11	CARBON	3.3K 5% 1/4W
				R442	1-247-843-11	CARBON	3.3K 5% 1/4W
				R443	1-249-455-11	CARBON	4.7 5% 1/4W (AEP, UK)

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark		
R444	1-249-455-11	CARBON	4.7	5%	1/4W (AEP, UK)
R445	1-247-688-11	CARBON	10	5%	1/4W
R446	1-247-847-11	CARBON	4.7K	5%	1/4W (BX2/DX2: MX)
△ R447	1-212-857-00	FUSIBLE	10	5%	1/4W F (BX2/DX2: MX)
R448	1-247-713-11	CARBON	1K	5%	1/4W (BX2/DX2: MX)
R449	1-247-847-11	CARBON	4.7K	5%	1/4W
R450	1-247-855-11	CARBON	10K	5%	1/4W (BX2/DX2: SP, TW, KR, MX, AUS)
R450	1-249-405-11	CARBON	100	5%	1/4W (E2, E3, AR)
△ R419A	1-220-890-11	METAL	0.22	10%	3W F (BX2/DX2: SP, TW, KR, MX, AUS)
△ R420A	1-220-890-11	METAL	0.22	10%	3W F (BX2/DX2: SP, TW, KR, MX, AUS)

< RELAY >

RL401	1-755-170-11	RELAY (12V)
△ RL402	1-515-999-11	RELAY, POWER (BX2/DX2: MX)

< TRANSFORMER >

△ T401	1-435-612-11	TRANSFORMER, POWER (US, CND, MX)
△ T401	1-435-629-11	TRANSFORMER, POWER (AEP, UK)

FUSE BOARD (E2, E3, SP, TW, AR)

*	1-533-213-31	HOLDER, FUSE
---	--------------	--------------

< FUSE >

△ F802	1-532-388-31	FUSE (T2AL/250V)
△ F803	1-532-504-31	FUSE (T4AL/250V)

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Page	Before Change					After Change				
46	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>		<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>		<u>Remark</u>
		A-4473-599-A	FRONT BOARD, COMPLETE				A-4473-599-A	FRONT BOARD, COMPLETE		(US, CND, MX)
							A-4473-996-A	FRONT BOARD, COMPLETE		(AEP, UK)
							A-4475-325-A	FRONT BOARD, COMPLETE		(E2, E3, SP, TW, AR)
							A-4475-331-A	FRONT BOARD, COMPLETE		(KR, AUS)
						D609	8-719-911-19	DIODE 1SS133T-72		(AEP, UK, E2, E3, SP, TW, AR)
48	D612	8-719-911-19	DIODE 1SS133T-72		(US, CND, AEP, UK, AUS)	D612	8-719-911-19	DIODE 1SS133T-72		
	D613	8-719-911-19	DIODE 1SS133T-72		(US, CND)	D613	8-719-911-19	DIODE 1SS133T-72		(US, CND, MX)
						D614	8-719-911-19	DIODE 1SS133T-72		(AEP, UK)
	D615	8-719-911-19	DIODE 1SS133T-72		(US, CND)	D615	8-719-911-19	DIODE 1SS133T-72		(US, CND, MX)
		A-4473-603-A	MAIN BOARD, COMPLETE (US)				A-4473-603-A	MAIN BOARD, COMPLETE		(US, CND, E, AUS)
							A-4473-999-A	MAIN BOARD, COMPLETE		(AEP, UK)
50	C130	1-137-352-11	MYLAR	0.033uF 5%	100V	C107	1-161-494-00	CERAMIC	0.022uF	25V (AEP, UK)
						C130	1-137-352-11	MYLAR	0.033uF 5%	100V (US, CND, E, AUS)
	C131	1-137-352-11	MYLAR	0.033uF 5%	100V	C130	1-137-389-11	MYLAR	0.0022uF 5%	100V (AEP, UK)
						C131	1-137-352-11	MYLAR	0.033uF 5%	100V (US, CND, E, AUS)
						C131	1-137-389-11	MYLAR	0.0022uF 5%	100V (AEP, UK)
						C167	1-162-199-31	CERAMIC	10PF	5% 50V (AEP, UK)
						C170	1-128-551-11	ELECT	22uF	20% 25V (AEP, UK)
						C171	1-128-551-11	ELECT	22uF	20% 25V (AEP, UK)
						C172	1-126-962-11	ELECT	3.3uF	20% 50V (AEP, UK)
						C173	1-162-287-31	CERAMIC	270pF	10% 50V (AEP, UK)
						C174	1-162-291-31	CERAMIC	560PF	10% 50V (AEP, UK)
						C175	1-102-518-11	CERAMIC	33PF	5% 50V (AEP, UK)
						C176	1-102-518-11	CERAMIC	33PF	5% 50V (AEP, UK)
	CF102	1-567-390-11	FILTER, CERAMIC	(10.7MHz)		CF102	1-567-390-11	FILTER, CERAMIC	(10.7MHz)	(US, CND, E, AUS)
						CF102	1-579-568-11	FILTER, CERAMIC	(10.7MHz)	(AEP, UK)
	FE101	1-693-469-11	FRONT END			FE101	1-693-422-11	FRONT END		(AEP, UK)
						FE101	1-693-469-11	FRONT END		(US, CND, E, AUS)
	JK101	1-694-092-21	TERMINAL BOARD (ANTENNA)			IC101	8-759-560-51	IC BU1924F		(AEP, UK)
						JK101	1-694-092-21	TERMINAL BOARD (ANTENNA)		(US, CND, E, AUS)
						JK101	1-694-126-11	TERMINAL BOARD (ANTENNA)		(AEP, UK)
						L109	1-412-503-11	INDUCTOR	22uH	(AEP, UK)
						L116	1-412-503-11	INDUCTOR	22uH	(AEP, UK)

Page	Before Change						After Change					
	Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
51							R106	1-247-807-11	CARBON	100	5%	1/4W (AEP, UK)
	R106	1-247-849-11	CARBON	5.6K	5%	1/4W	R106	1-247-849-11	CARBON	5.6K	5%	1/4W (US, CND, E, AUS)
							R150	1-249-459-11	CARBON	12K	5%	1/4W (AEP, UK)
							R152	1-247-807-11	CARBON	100	5%	1/4W (AEP, UK)
							R154	1-247-807-11	CARBON	100	5%	1/4W (AEP, UK)
							R158	1-249-459-11	CARBON	12K	5%	1/4W (AEP, UK)
							R167	1-249-411-11	CARBON	330	5%	1/4W (AEP, UK)
52							X102	1-579-242-11	VIBRATOR, CRYSTAL (4.332MHz)			(AEP, UK)
53			MISCELLANEOUS *****						MISCELLANEOUS *****			
	△ 262	1-783-531-51	CORD, POWER (US, Canadian)				△ 262	1-783-531-51	CORD, POWER (US, CND)			
							△ 262	1-555-795-00	CORD, POWER (AEP, E3)			
							△ 262	1-696-570-21	CORD, POWER (UK)			
							△ 262	1-696-966-11	CORD, POWER (E2, SP, TW, AUS)			
							△ 262	1-776-985-21	CORD, POWER (KR)			
							△ 262	1-783-941-52	CORD, POWER (AR)			
	△ T001	1-435-611-11	TRANSFORMER, POWER (US)				△ T001	1-435-611-11	TRANSFORMER, POWER (US, CND, MX)			
							△ T001	1-435-630-11	TRANSFORMER, POWER (AEP, UK)			
							△ T001	1-435-631-11	TRANSFORMER, POWER (EXCEPT BX2/DX2: MX)			

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

[illegible]