

HCD-DP700

SERVICE MANUAL

Ver 1.3 2002.08



*US Model
Canadian Model
AEP Model
E Model*

- HCD-DP700 is the tuner, deck, CD and amplifier section in MHC-DP700.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM58E-30BD60
	Base Unit Name	BU-30BD60
	Optical Pick-up Name	A-MAX.3
Tape deck Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	TCM-230MWR41

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS:

(HCD-DP700 US model only)

POWER OUTPUT AND TOTAL

HARMONIC DISTORTION:

with 8 ohm loads both channels driven, from 120-10 kHz; rates 100 watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 milliwatts to rated output.

Total harmonic distortion less than 0.07%
(8 ohms at 1 kHz, 50 W)

Amplifier section

US, Canadian model:

Continuous RMS power output (reference)
100 + 100 watts
(8 ohms at 1 kHz, 10% THD)

Total harmonic distortion less than 0.07%
(8 ohms at 1 kHz, 70 W)

European model:

DIN power output (rated) 60 + 60 watts
(8 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)
80 + 80 watts
(8 ohms at 1 kHz, 10% THD)

Music power output (reference)
150 + 150 watts
(8 ohms at 1 kHz, 10% THD)

Other models:

The following measured at AC 120, 220, 240 V 50/60 Hz
DIN power output (rated) 130 + 130 watts
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)
180 + 180 watts
(6 ohms at 1 kHz, 10% THD)

Inputs

GAME IN: voltage 450mV,
(phono jacks) impedance 47 kilohms

MD/VIDEO IN: voltage 450/250 mV,
(phono jacks) impedance 47 kilohms

OPTICAL IN:

(Square optical connector jacks, front panel (North American and European models only), or front and rear panels (except for North American and European models))

MIC: sensitivity 1 mV,
(Except for North American and European models)
(mini jack) impedance 10 kilohms

— Continued on next page —

COMPACT DISC DECK RECEIVER

9-873-889-14
2002H0200-1
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Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

SONY®

Outputs	
MD/VIDEO OUT: (phono jacks)	voltage 250 mV, impedance 1 kilohms
PHONES: (stereo mini jack)	accepts headphones of 8 ohms or more
SPEAKER (Central and South American models): (Other models):	accepts impedance of 6 to 16 ohms accepts impedance of 8 to 16 ohms
SUB WOOFER:	voltage 1 V, impedance 1 kilohms

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser ($\lambda=780$ nm)
Frequency response	2 Hz – 20 kHz (± 0.5 dB)
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB
DIGITAL OUT OPTICAL (Square optical connector jack, rear panel)	

Tape player section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF)	40 – 13,000 Hz (± 3 dB), using Sony TYPE I cassette 40 – 14,000 Hz (± 3 dB), using Sony TYPE II cassette
Wow and flutter	$\pm 0.15\%$ W.Peak (IEC) 0.1% W.RMS (NAB) $\pm 0.2\%$ W.Peak (DIN)

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	
North 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

General

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

Power consumption	
US model:	170 watts
Canadian model:	170 watts

European model:	180 watts 0.5 watts (during Power Saving Mode)
Other models:	150 watts

Dimensions (w/h/d)	Approx. 280 x 360 x 365 mm
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Mass	
North American and European models:	Approx. 10.5 kg
Other models:	Approx. 12.0 kg

Design and specifications are subject to change without notice.

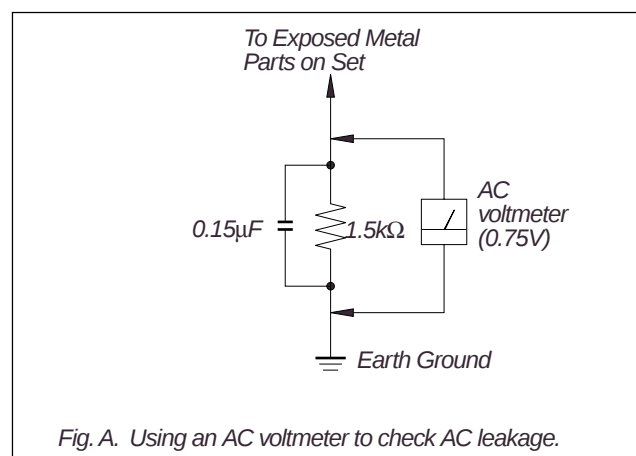
SAFETY CHECK-OUT (US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK $\triangle$ OR DOTTED LINE WITH MARK $\triangle$ 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 PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

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

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.

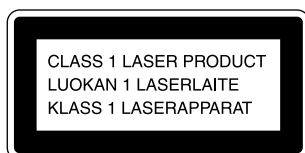
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

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.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



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

CAUTION

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

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 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.

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7. EXPLODED VIEWS

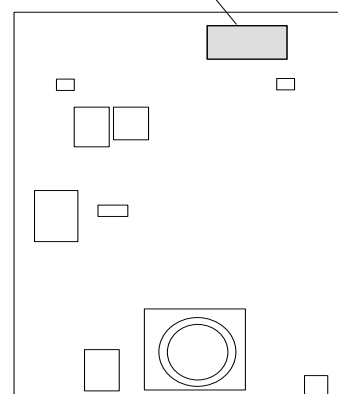
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8. ELECTRICAL PARTS LIST

MODEL IDENTIFICATION

— BACK PANEL —

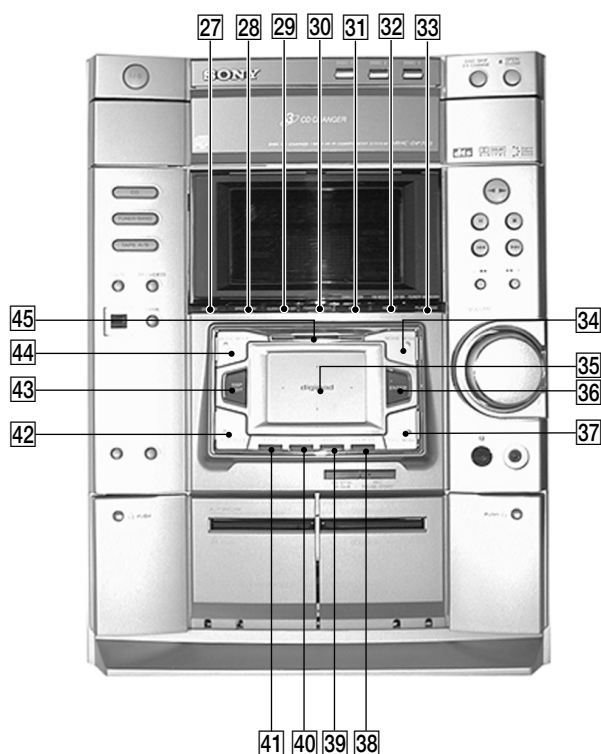
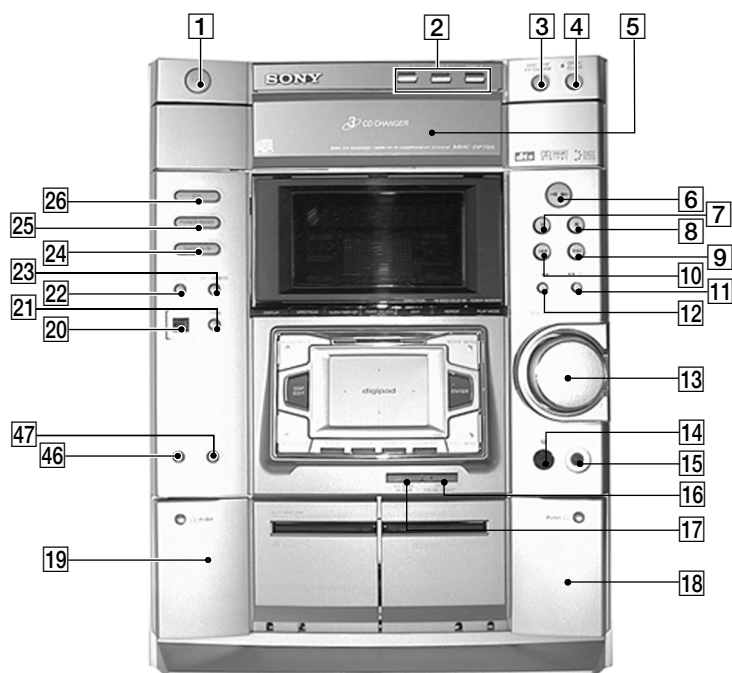
PARTS No.



MODEL	PARTS No.
US model	4-231-829-0□
CND model	4-231-829-1□
AEP model	4-231-829-2□
MX model	4-231-829-5□
E51 model	4-231-829-6□

- Abbreviation
- CND : Canadian model
- MX : Mexican model
- E51 : Chiri and Peru model

SECTION 1 GENERAL



Location of Parts and Controls

- | | |
|--|--|
| 1 I/⏻ (POWER) button | 26 CD button |
| 2 DISC 1-3 button | 27 DISPLAY |
| 3 DISC SKIP EX-CHANGE button | 28 SPECTRUM button (US and AEP model only) or KARAOKE PON button (except for US, AEP model) |
| 4 ▲ OPEN/CLOSE (disc tray) button | 29 CLOCK/TIMER SET button |
| 5 DISC tray | 30 TIMER SELECT button |
| 6 ▶▶ (play) button | 31 EDIT/DIRECTION/PTY (European model only) button |
| 7 (pause) button | 32 DOLBY NR/FM MODE/REPEAT button |
| 8 ■ (stop) button | 33 TUNER/MEMORY/PLAY MODE button |
| 9 ▶▶▶ (go forward) button | 34 MOVIE MODE |
| 10 ◀◀ (go back) button | 35 DIGIPAD |
| 11 ▶▶▶/+ (fast forward) button | 36 ENTER |
| 12 ◀◀/− (rewind) button | 37 TOOL MODE |
| 13 VOLUME control knob | 38 2CH/MULTI |
| 14 IR receptor | 39 EFFECT |
| 15 PHONES jack | 40 GROOVE |
| 16 REC PAUSE/START button | 41 P FILE |
| 17 CD SYNC HI-DUB button | 42 GAME MODE |
| 18 DECK B ▲ | 43 DSP EDIT |
| 19 DECK A ▲ | 44 MUSIC MODE |
| 20 DIGITAL IN (OPTICAL) | 45 MULTI CHANNEL RECORDING indicator |
| 21 GAME button | 46 MIC jack (except for US, AEP model) |
| 22 DIGITAL button | 47 MIC LEVEL control knob (except for US, AEP model) |
| 23 MD (VIDEO) button | |
| 24 TAPE A/B button | |
| 25 TUNER/BAND button | |

This section is extracted from instruction manual.

- 1 Turn on the system.**
- 2 Press CLOCK/TIMER SET on the remote.**
When you set the time for the first time, proceed to step 5.
- 3 Press cursor ▼/▲ repeatedly to select CLOCK SET.**
- 4 Press ENTER.**
- 5 Press cursor ▼/▲ repeatedly to set the hour.**
- 6 Press ENTER.**
- 7 Press cursor ▼/▲ repeatedly to set the minute.**
- 8 Press ENTER.**
The clock starts working.

If you have made a mistake or want to change the time, start over from step 2.

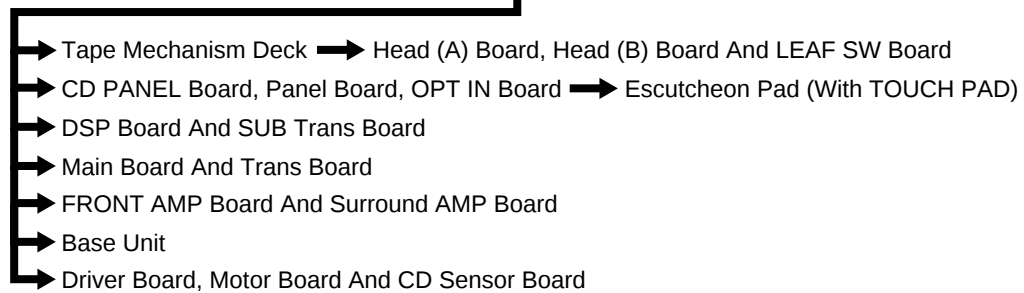
Note

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

SECTION 2 DISASSEMBLY

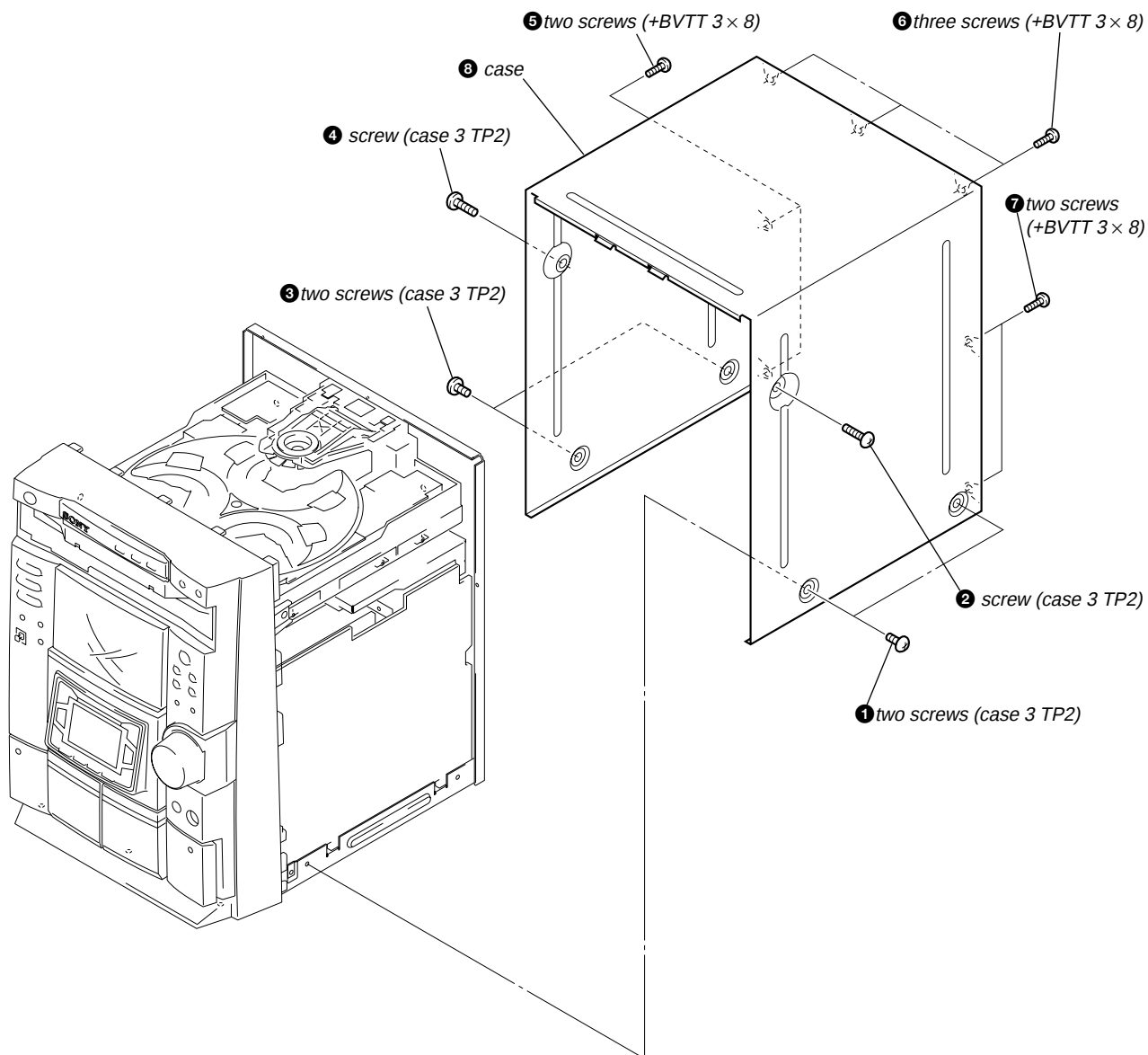
- The equipment can be removed using the following procedure.

Set → Case (Top) → Loading Panel → Front Panel Section

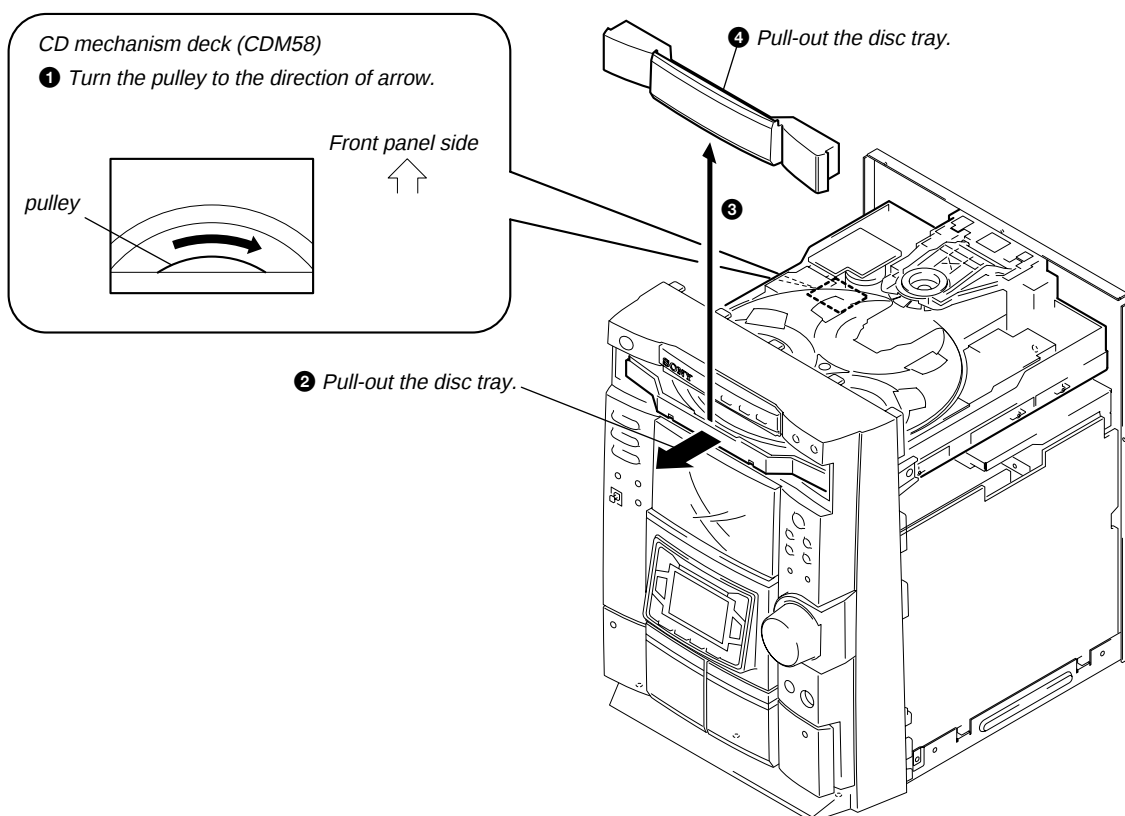


Note : Follow the disassembly procedure in the numerical order given.

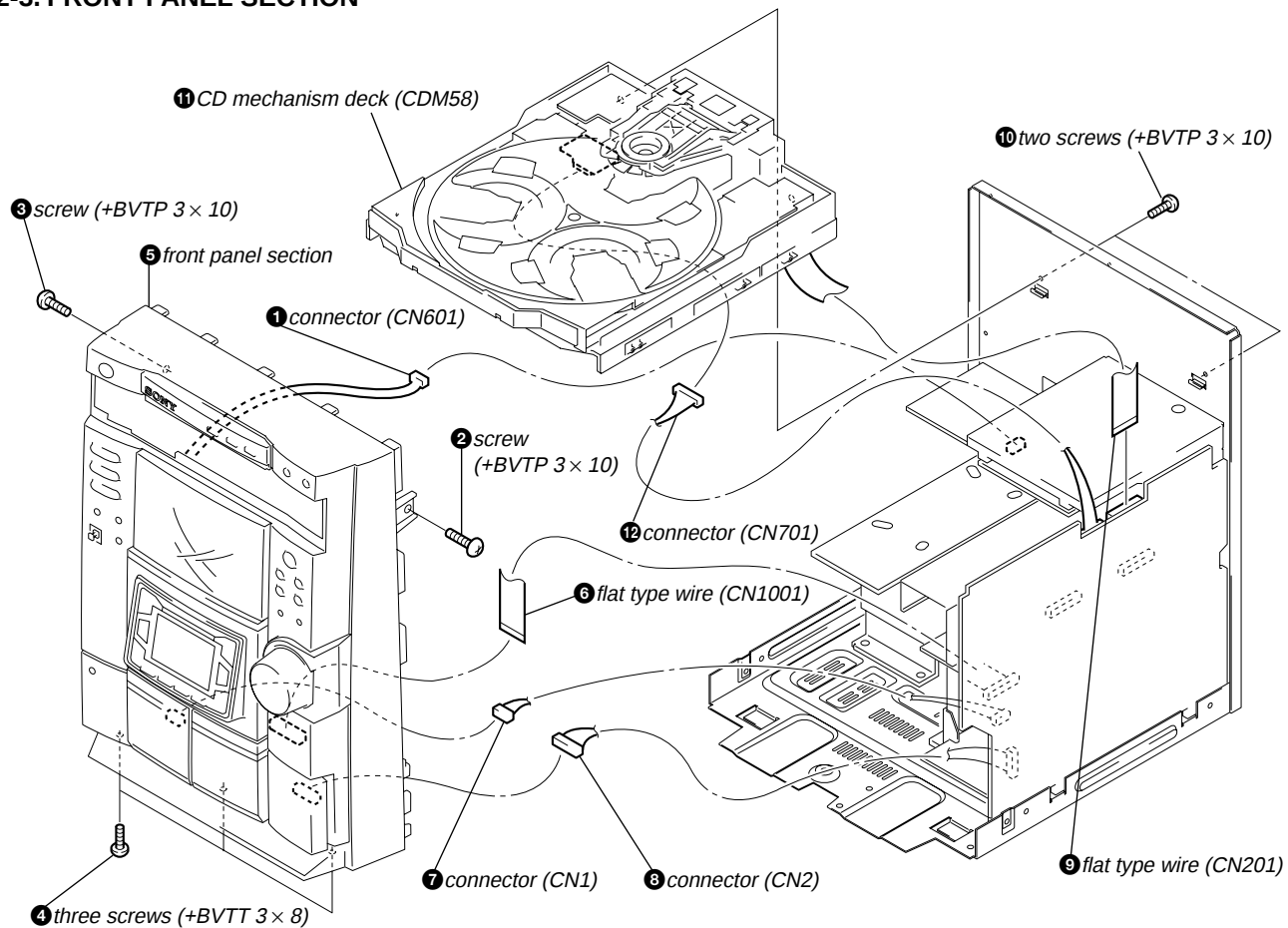
2-1. CASE (TOP)



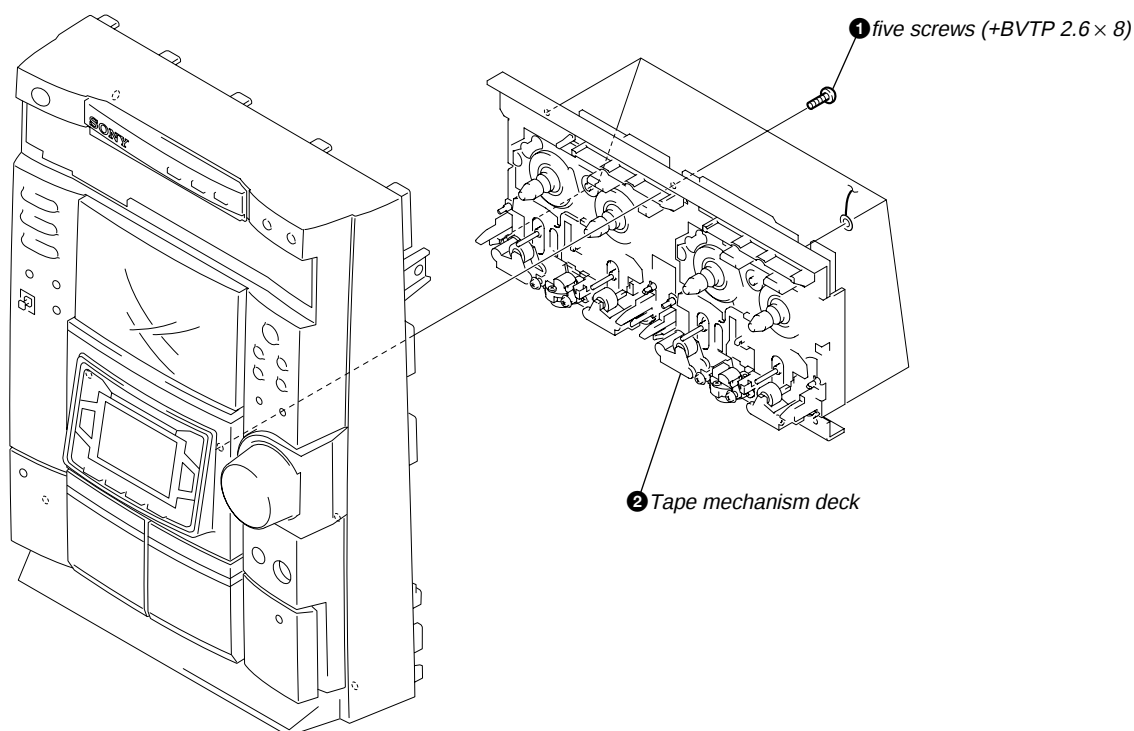
2-2. LOADING PANEL



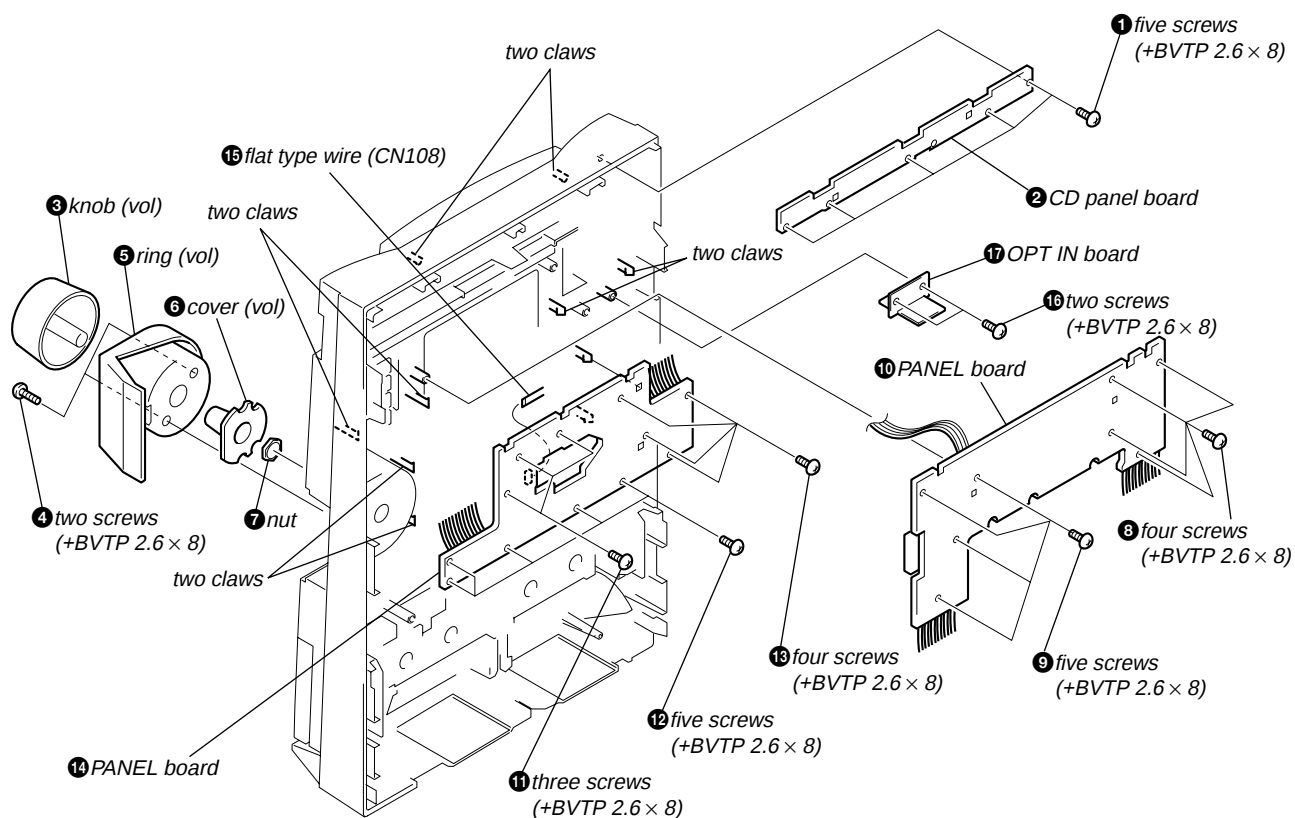
2-3. FRONT PANEL SECTION



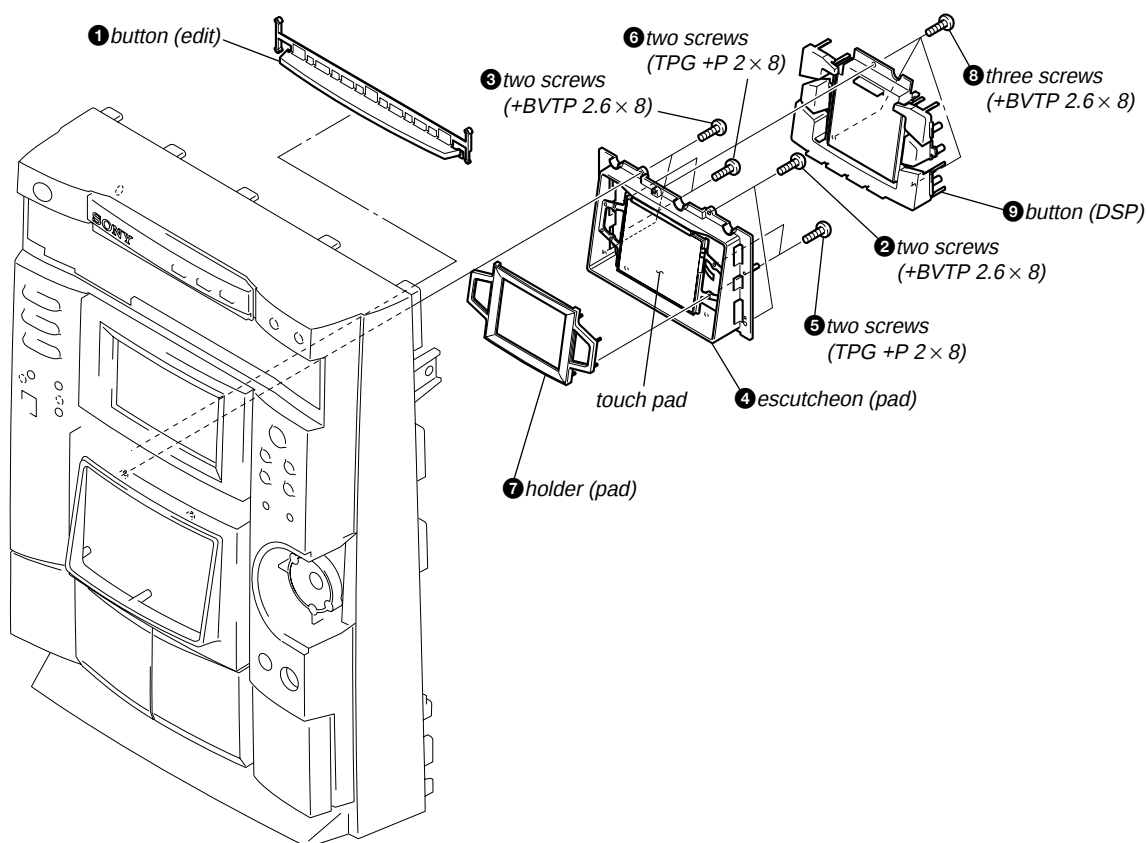
2-4. TAPE MECHANISM DECK



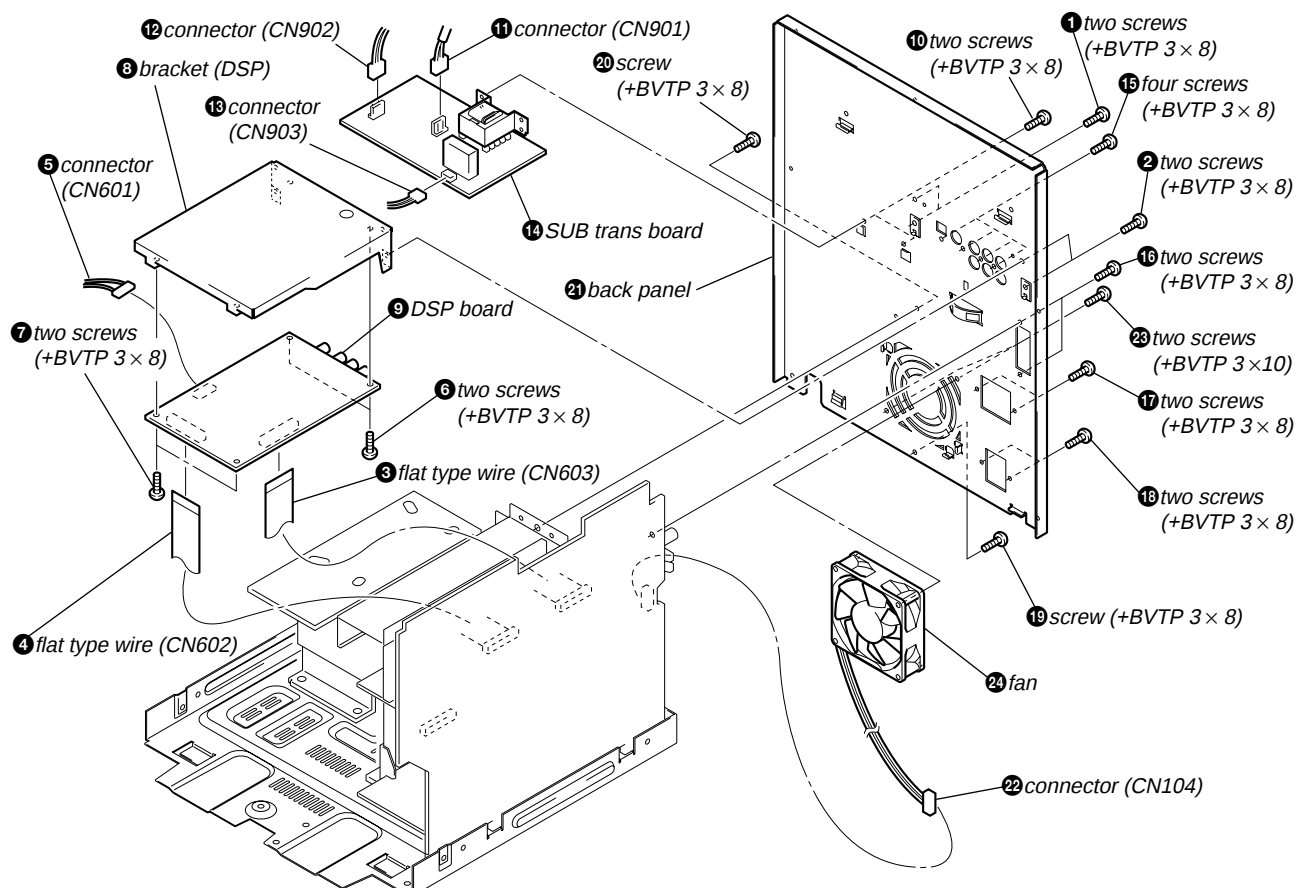
2-5. CD PANEL BOARD, PANEL BOARD AND OPT BOARD



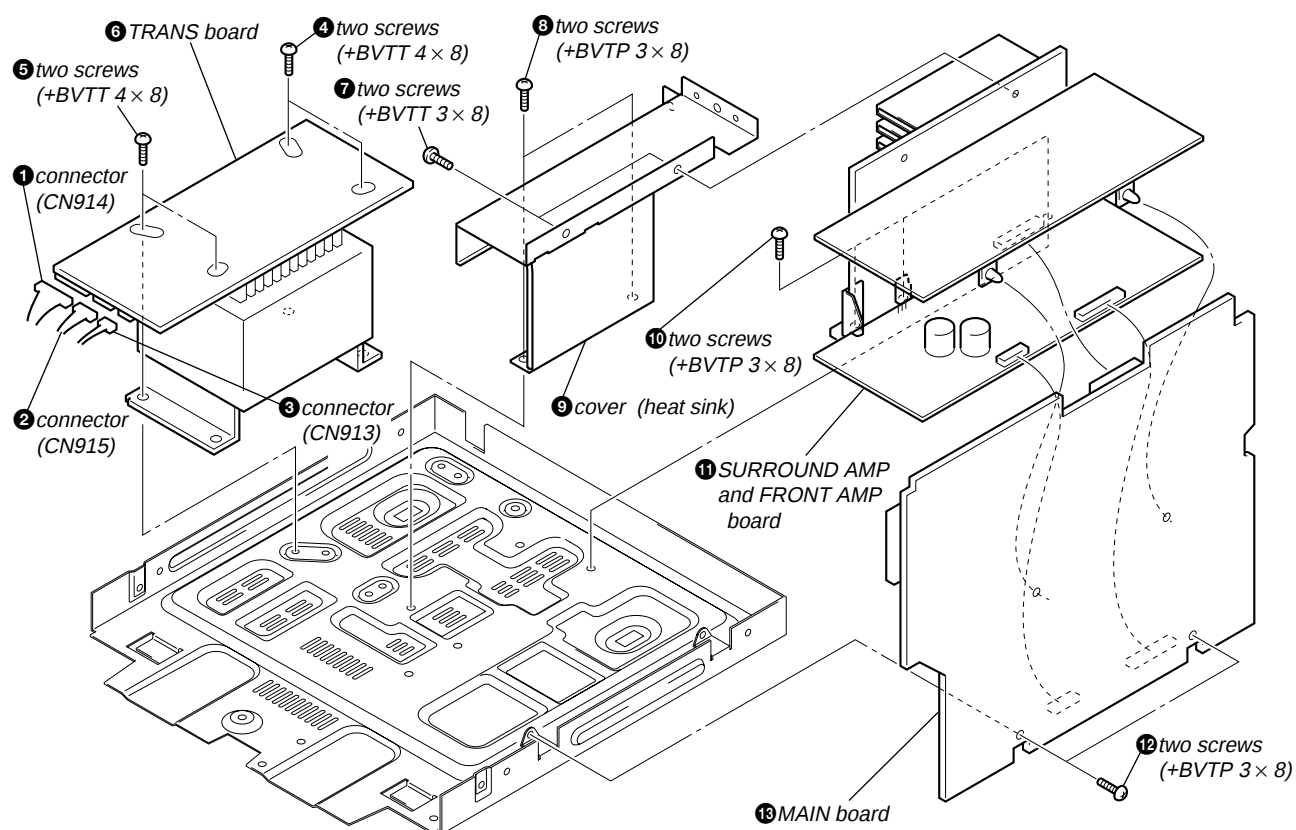
2-6. ESCUTCHEON PAD (WITH TOUCH PAD)



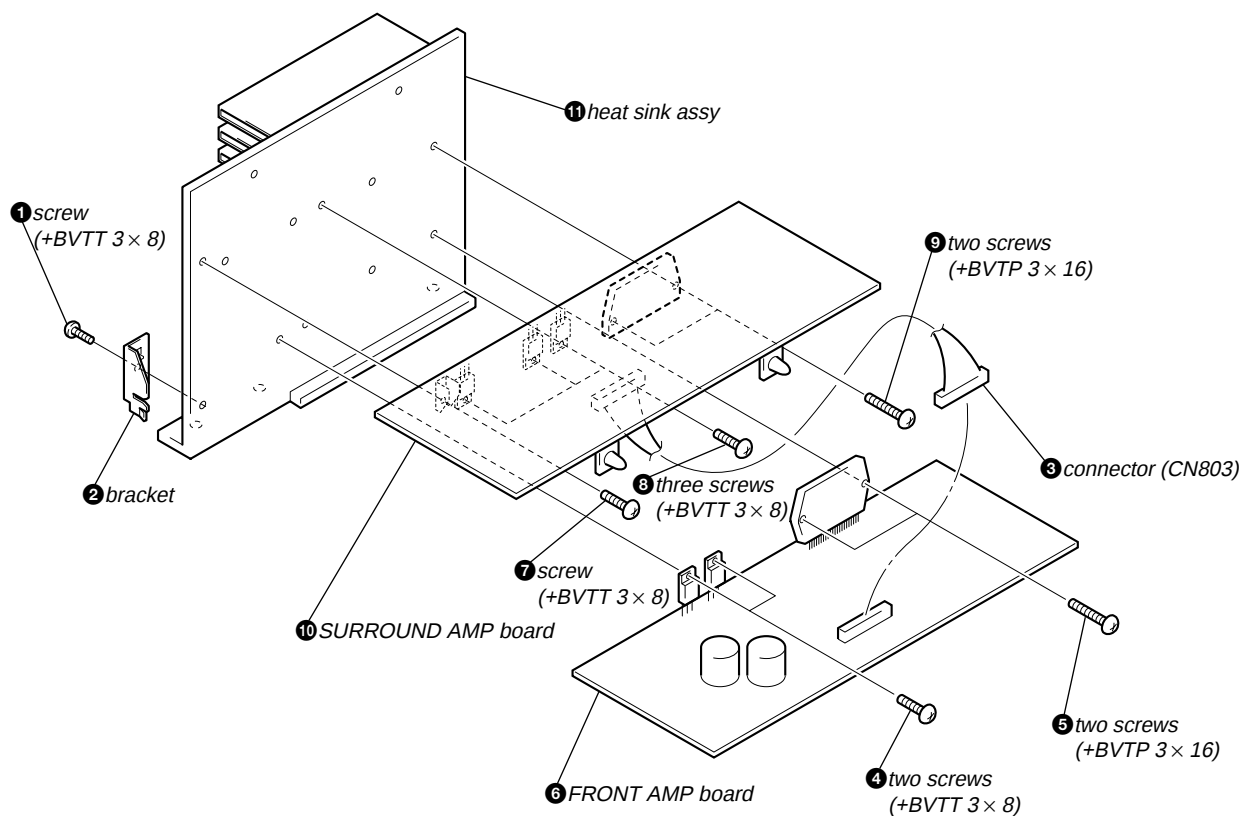
2-7. DSP BOARD, SUB TRANS BOARD



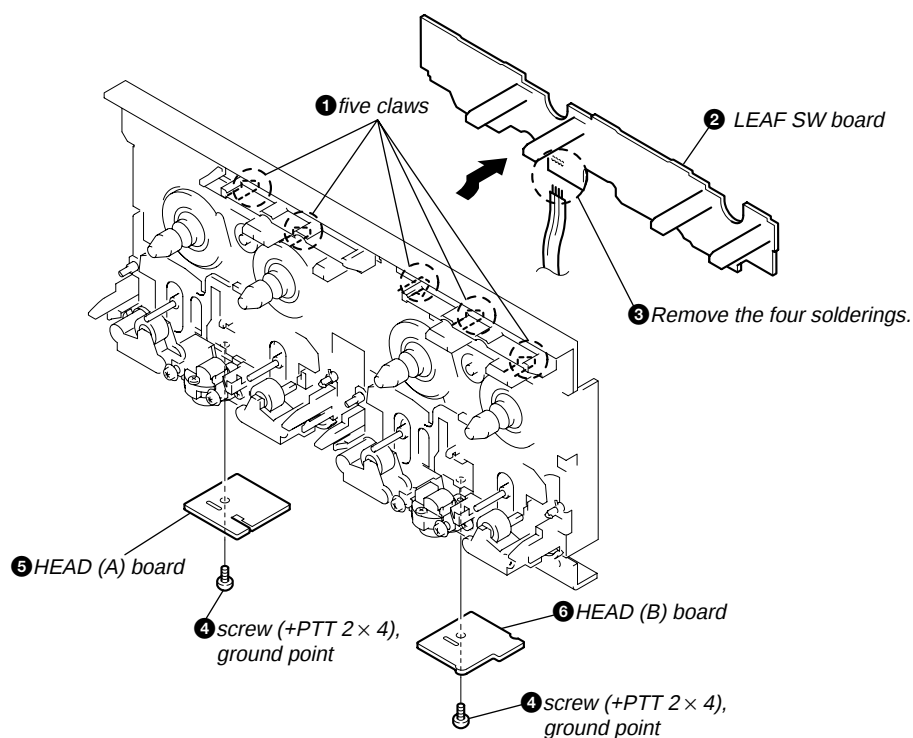
2-8. MAIN BOARD, TRANS BOARD



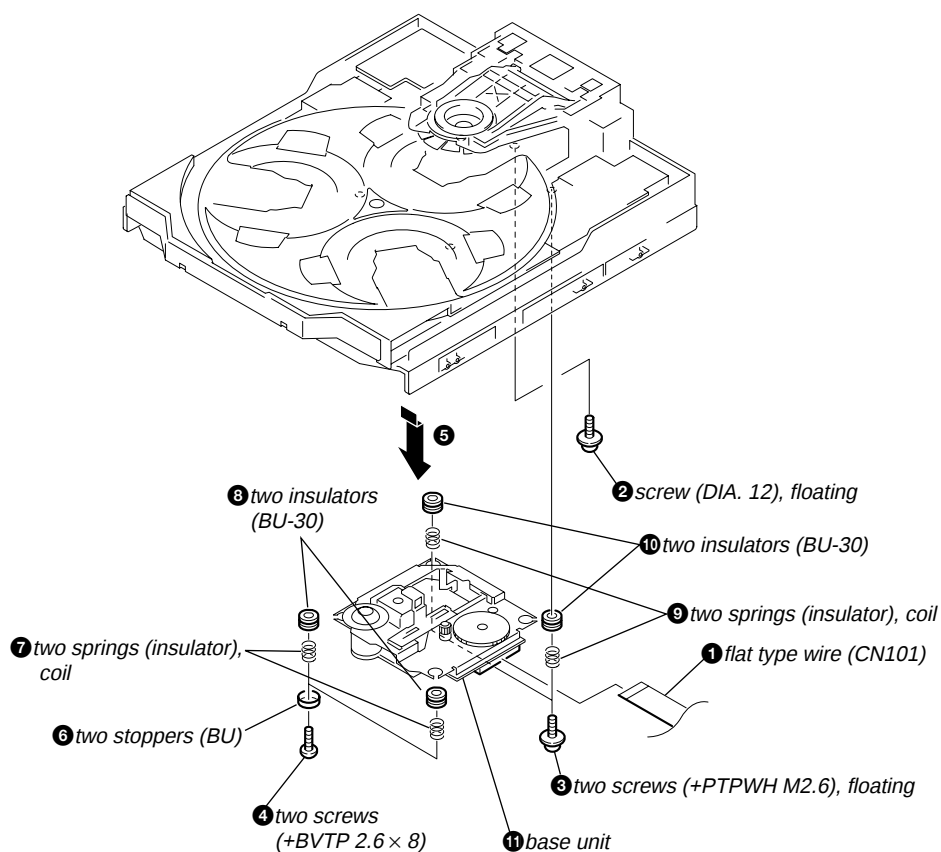
2-9. FRONT AMP BOARD, SURROUND AMP BOARD



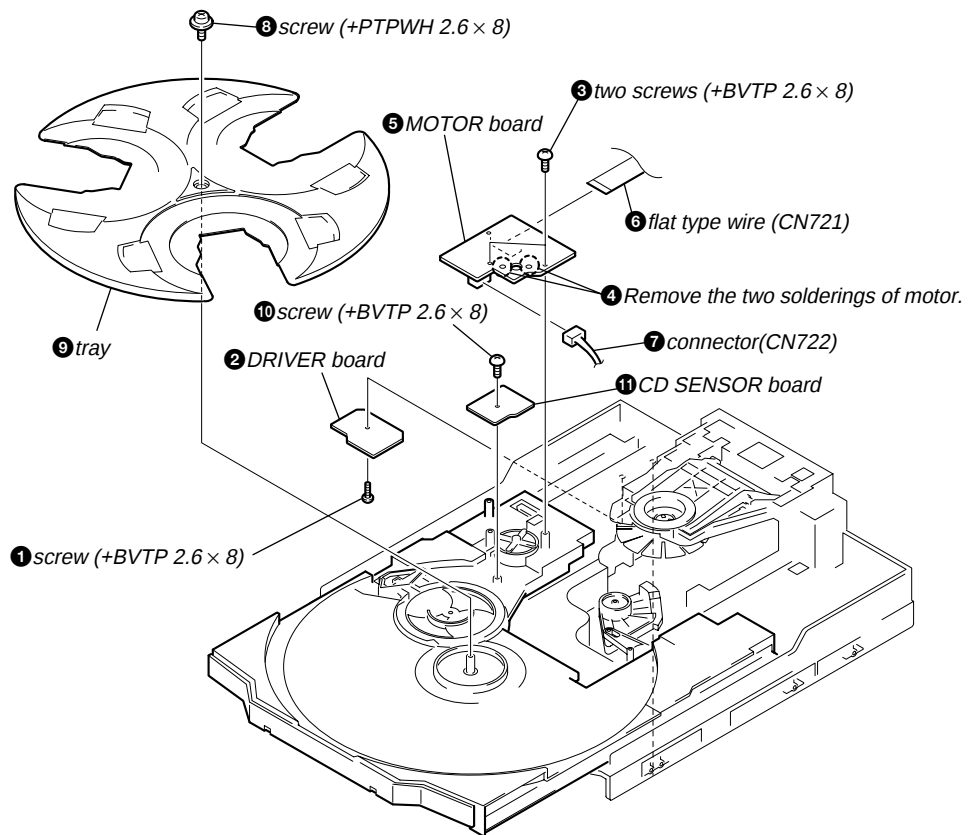
2-10. HEAD (A) BOARD, HEAD (B) BOARD AND LEAF SW BOARD



2-11. BASE UNIT



2-12. DRIVER BOARD, MOTOR BOARD AND CD SENSOR BOARD



SECTION 3

TEST MODE

[Cold Reset]

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

- Press three buttons **[STOP]**, **[DISPLAY]**, and **[DISC 1]** simultaneously.
- The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

[Tuner Step Change] (Except for European and Middle Eastern models)

- A step of AM channels can be changed over between 9 kHz and 10 kHz.

Procedure:

- Press **[POWER]** button to turn the set ON.
- Select the function "TUNER", and press **[TUNER/BAND]** button to select the BAND "AM".
- Press **[POWER]** button to turn the set OFF.
- Press **[ENTER]** and **[POWER]** buttons simultaneously, and the display of fluorescent indicator tube changes to "AM 9 k STEP" or "AM 10 k STEP", and thus the channel step is changed over.

[Function Change Mode]

- Select either VIDEO or MD of the external FUNCTION input.

Procedure:

- Turn on the power.
- Hold down **[MD(VIDEO)]** button then press **[POWER]** button, and release **[POWER]** button first in order not to switch off the set immediately.
The another function of the previous function is selected, the input level is also changed and displayed "MD" or "VIDEO".

[GC Test Mode]

- This mode is used to check the software version, FL tube, LED, keyboard and VACS.

Procedure:

- Press three buttons **[STOP]**, **[DISPLAY]**, and **[DISC 2]** simultaneously.
- LEDs and fluorescent indicator tube are all turned on.
- When you want to enter the software version display mode, press **[DISC 1]**. The model number and destination are displayed.
- Each time **[DISC 1]** is pressed, the display changes stating from MC version, GC version, CD version, CDDM, CDMA, CDMB, BDA, BDB, ST version, TA version, TM version, TC version, in this order, and returns to the model number and destination display.
- When **[DISC 3]** is pressed while the version numbers are being displayed except model number and destination, year, month and day of the software creation appear. When **[DISC 3]** is pressed again, the display returns to the software version display. When **[DISC 1]** is pressed while year, month and day of the software creation are being displayed, the year, month and day of creation of the software versions are displayed in the same order of version display.
- Press **[DISC 2]** button, and the key check mode is activated.
- In the key check mode, the fluorescent indicator tube displays "KOJOVO". Each time a button is pressed, "KEY" value increases.
However, once a button is pressed, it is no longer taken into account.
"VOL" value increases like 1, 2, 3...if rotating VOLUME knob in "+" direction, or it decreases like 0, 9, 8...if rotating in "-" direction.
- Also when **[DISC 3]** is pressed after lighting of all LEDs and FL tubes, value of VACS appears.

- To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[MC Test Mode]

- This mode is used to check operations of the respective sections of Amplifier, Tuner, and Tape.

Procedure:

- To enter MC Test Mode
- Press the **[POWER]** button to turn on the set.
 - Press the three buttons of **[STOP]**, **[DISPLAY]** and **[DISC 3]** simultaneously.
 - Cursor segment flash on the FL display tube. The input FUNCTION is changed to GAME.

* Check of Amplifier

Initial settings: Input → GAME
EQ → FLAT
Mode → MUSIC
VA CS → OFF

Output channel switching:

MUSIC key: L → L R → R through
MOVIE key: L → SL R → SR through
GAME key: L → L, SL, C R → R, SR, SW through
TOOL key: L → C R → SW through

- When the **[VOLUME]** control knob is turned clockwise even slightly, the sound volume increases to its maximum and a message "VOLUME MAX" appears for two seconds, then the display returns to the original display.
- When the **[VOLUME]** control knob is turned counter-clockwise even slightly, the sound volume decreases to its minimum and a message "VOLUME MIN" appears for two seconds, then the display returns to the original display.

* Tuner function

- In the test mode, the default-preset channel is called even when the TUNER is selected and an attempt is made to call the preset channel that has been stored in memory. (It means that the memory is cleared.)
- The minimum, center and maximum frequency of each band is set then.

* Tape recording test

- To enter the MC Test Mode.
- Load tapes in both tape decks A and B.
- Press the REC button to start recording.
- Pressing the **[▶/+]**, **[◀/-]** buttons during recording returns the tape to the recording start position and stops it at this position.
- Pressing the "High Speed Dubbing" key while playing back the tape of deck B switches the playback speed between "Normal Speed" and "High Speed".

Note:

When the playback direction of the tape is set to other than "ONLY WAY", the restriction on the number of times playback which can be repeated will be cleared.

* AMS Test Mode

- Set TAPE function
- Select the desired loop by pressing the **[PLAY MODE]** button. Insert a test tape AMS-110A or AMS-120 to Deck A.
- Press the **[SPECTRUM]** (or **[KARAOKE PON]**) button to enter the AMS test mode.
- After a tape is rewound first, the FF AMS is checked, and the mechanism is shut off after detecting the AMS signal the AMS signal twice.
- Then the REW AMS is checked and the mechanism is shut off after detecting the AMS signal twice.

- When the check is complete, a message of either OK or NG appears.

* To return to normal mode again.

- When you want to exit this mode, press the **POWER** button.
- The cold reset is enforced at the same time.

[Aging Mode]

This mode can for operation check of tape deck section and CD section.

- If an error occurred:
The aging operation stops and display then status.
- If no error occurs:
The aging operation continues repeatedly.

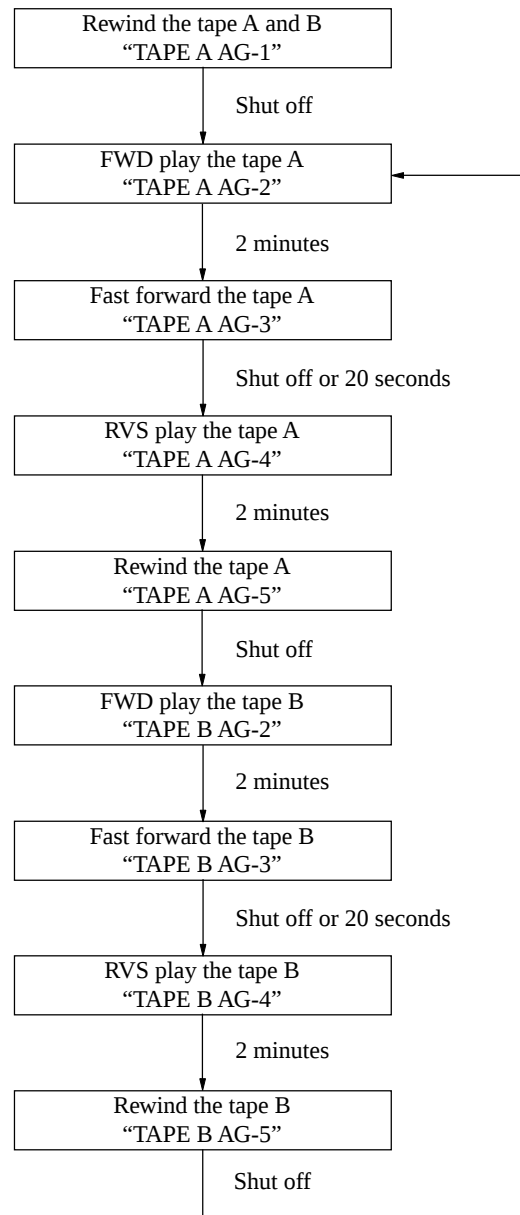
Procedure:

- Press the **CD** button to select the function “CD”.
- Load the tapes into the decks A and B respectively.
- Set a disk in “DISK1” tray.
- Press the **PLAY MODE** button to set the “ALL DISCS” mode, and press the **REPEAT** button to “REPEAT” off.
- Press three buttons of **STOP**, **ENTER**, and **DISC SKIP/EX-CHANGE** simultaneously.
- The aging mode is activated, if the indicator of DOLBY NR is blinking.
- To exit from the aging mode, operate the cold reset.

[Tape Deck Section]

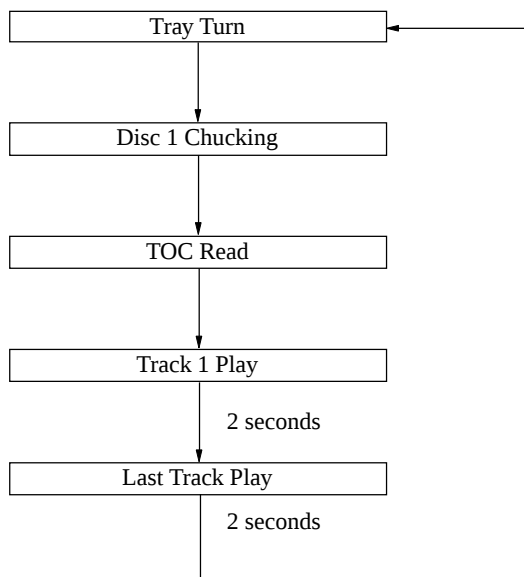
- The sequence during the aging mode is following as below.
- If an error occurred, stop display that step.

Aging mode sequence (Tape deck section):



[CD Section]

- The sequence during the aging mode is following as below.

Aging mode sequence (CD section):**Error History Display****1. BD Error History Display**

11 digits are displayed after the D character.

Example of display : D00209010100

- 1st digit : Indicates the error history number.
0 is the latest error
- 2nd to 3rd digits : Indicates details of the problem.
- 01 : Cannot focus
 - 02 : GFS NG
 - 03 : Start time over
 - 04 : Focus deviates continuously
 - 05 : Q code absent for some time
- 4th to 5th digits : Processing when problems occur
- 01 : Currently SHIP processing
 - 02 : Currently POWER OFF processing
 - 03 : Currently initializing
 - 04 : Currently stopping
 - 05 : Currently STOP operation processing
 - 06 : Currently start processing
 - 07 : Currently TOC reading
 - 08 : Currently searching
 - 09 : Currently playing
 - 0A : Currently pausing
 - 0B : Currently PLAY manual searching
 - 0C : Currently PAUSE manual searching
- 6th to 7th digits : Operations currently performed for problems which have occurred
- 8th to 9th digits : Rotation speed of DISC when problems occur
- 01 : x1 speed
 - 02 : x2 speed
- 10th to 11th digits : Fixed at 00

2. CDM Error History <CDM58 Error History Display>

11 digits are displayed after the M character.

Example of display : M0FF400220000

- 1st digit : Indicates the error history number.
0 is the latest error
- 2nd to 3rd digits : Indicates the details of the problem.
- 01 : Initialization table is currently rotating 1
 - 02 : Initialization table is currently rotating 2
 - 03 : Initialization table is currently rotating 3
 - 04 : Currently DISC SKIP in OPEN mode
 - 05 : CLOSE table is currently rotating
 - 06 : Chucking table is currently rotating
 - 07 : Currently performing SHIP operations
 - 08 : Currently performing release operations
 - 09 : Currently performing POWER OFF operations
- 4th to 5th digits : Processing when problems occur
- 01 : Currently performing SHIP operations
 - 02 : Currently performing POWER OFF operations
 - 03 : Currently initializing
 - 04 : Currently performing release operations
 - 05 : Currently in chuck stop state
 - 06 : Currently performing CLOSE operations
 - 07 : Currently performing exchange CLOSE operations
 - 08 : Currently performing OPEN operations
 - 09 : Currently performing OPEN POP UP operations
 - 0A : Currently performing exchange OPEN operations
- 6 to 7th digits : Operations currently performed for problems which have occurred
- 8th to 9th digits : Targets of processing when problems occur
Same as 4th to 5th digits
- 10th to 11th digits : Fixed at 00

[CD Ship Mode (No Memory Clear)]

- This mode moves the position to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

- Press **[POWER]** button to turn the set ON.
- Press three **[CD]** button and **[POWER]** button simultaneously.
- After the "STANBY" display blinks six times, a message "LOCK" is displayed on the fluorescent indicator tube, and the CD ship mode is set.

[CD Ship Mode (Memory Clear)]

- This mode moves the pickup to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

- Press **[POWER]** button to turn the set ON.
- Press three buttons **[ENTER]**, **[DISC 1]**, and **[CD]** button simultaneously.
- After the "STANDBY" display blinks six times, a message "LOCK" is displayed on the fluorescent indicator tube, and the CD ship mode is set.

HCD-DP700

[CD Service Mode]

- This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pickup.

Procedure:

1. Press [POWER] button to turn the set ON.
2. Select the function "CD".
3. Press three buttons [ENTER], [DISC 1], and [STOP] simultaneously.
4. The CD service mode is selected.
5. With the CD in stop status, press [▶▶/+] button to move the pickup to outside track, or press [◀◀/-] button to inside track.
6. To exit from this mode, perform as follows:
 - 1) Move the pickup to the most inside track.
 - 2) Press [POWER] button to turn the set OFF.

Note:

- Always move the pickup to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

[VACS ON/OFF MODE]

- This mode is used to switch ON and OFF the VACS (Variable Attenuation Control System).

Procedure:

Press the three buttons [STOP], [ENTER] and [SPECTRUM] or [KARAOK PON] simultaneously.

[VCD COLOR SYSTEM MODE]

- This mode is used for changing the COLOR SYSTEM of THE VCD.

Procedure:

1. Set the standby mode.
- 2-1. Press the two buttons [POWER] and [AMS+] simultaneously to set the COLOR SYSTEM of the VCD to AUTO.
- 2-2. Press the two buttons [POWER] and [AMS-] simultaneously to fix the COLOR SYSTEM of the VCD to PAL.
- 2-3. Press the two buttons [POWER] and [PAUSE] simultaneously to fix the COLOR SYSTEM of the VCD to NTSC.
3. The power turns ON automatically and the function sets to "CD".
4. The FL tube (fluorescent indicator) shows the COLOR SYSTEM mode set.
5. The COLOR SYSTEM mode set is maintained (memorized) until COLD RESEY is executed.

[REPEAT 5 LIMIT OFF MODE]

- This mode is used to enable infinite repetitions.
Normally, the number of repetitions allowed is 5.

Procedure:

1. Press the [POWER] button to turn ON the power supply.
2. Set the function "CD".
3. Press the three buttons [ENTER], [DISC 3], and [STOP] simultaneously.
4. Infinite repetitions is enabled.
5. This state is maintained (memorized) until COLD RESET is executed.

SECTION 4 MECHANICAL ADJUSTMENTS

Precaution

- Clean the following parts with a denatured alcohol-moistened swab:

record/playback heads	pinch rollers
erase head	rubber belts
capstan	idlers
- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
FWD back tension	CQ-102C	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
REV	CQ-102RC	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	6.96 N • m to 14.02 N • m 71 to 143 g • cm (0.98 – 1.99 oz • inch)
FWD tension	CQ-403A	9.80 N • m 100 g or more (3.53 oz or more)
REV tension	CQ-403R	9.80 N • m 100 g or more (3.53 oz or more)

SECTION 5 ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB=0.775 V

- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjust.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
- The adjustments should be performed for both L-CH and R-CH.
- Switches and controls should be set as follows unless otherwise specified.

• Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

Record/Playback Head Azimuth Adjustment

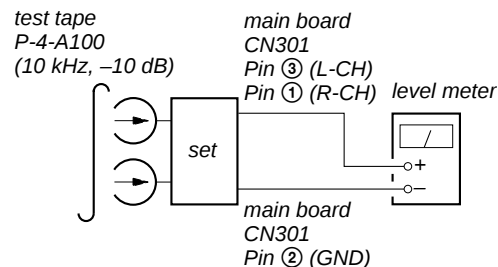
DECK A

DECK B

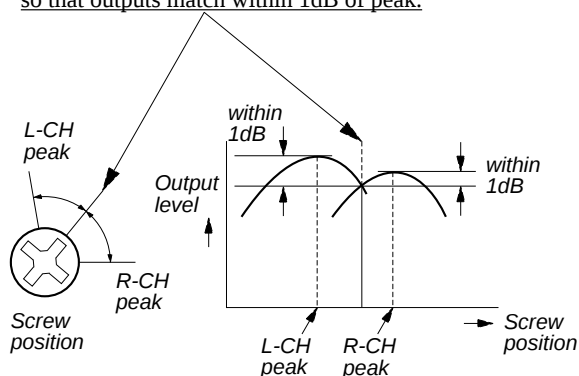
Note: Perform this adjustments for both decks

Procedure:

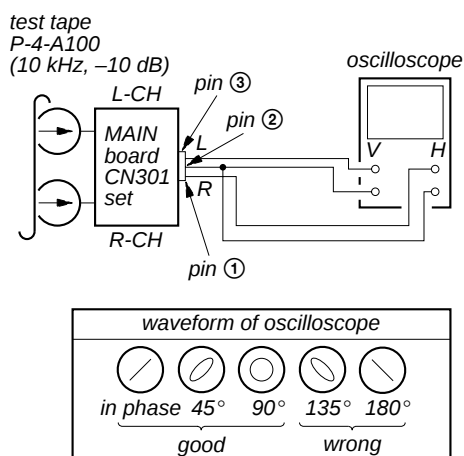
- Mode: Playback



- Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.

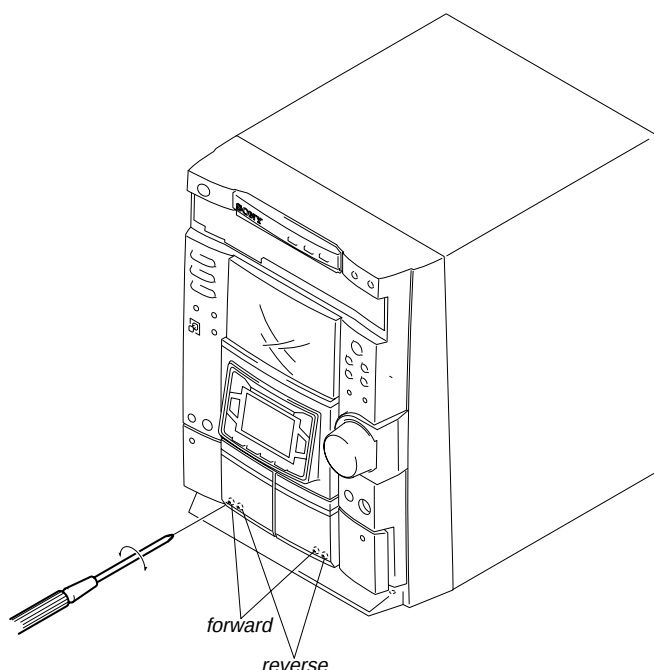


- Mode: Playback



- After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location: Playback Head (Deck A).
Record/Playback/Erase Head (Deck B).



Tape Speed Adjustment **DECK B**

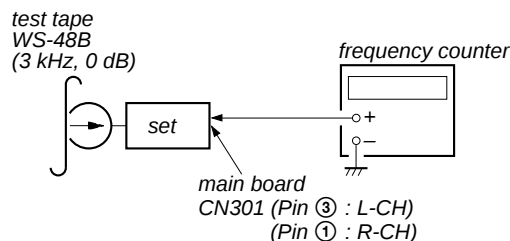
Note: Start the Tape Speed adjustment as below after setting to the test mode.

In the test mode, the tape speed is high during pressing the **CD SYNC HI-DUB** button.

Procedure:

- Turn the power switch on.
- Press the **■** button, **ENTER** button and **DISC 3** button simultaneously.
(The "TEST MODE" on the fluorescent indicator tube display while in the test mode.)
To exit from the test mode, press the **I/O** button.

Mode: Playback



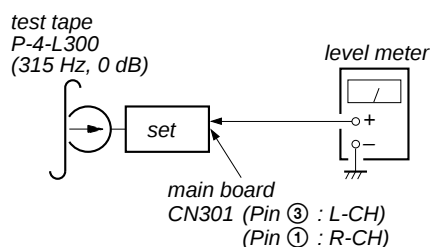
- Insert the WS-48B into the deck B.
- Press the **◀▶** button on the deck B.
- Press the **CD SYNC HI-DUB** button in playback mode.
Then at HIGH speed mode.
- Adjust RV1001 on the LEAF SW board so that frequency counter reads $6,000 \pm 30$ Hz.
- Press the **CD SYNC HI-DUB** button.
Then back to NORMAL speed mode.
- Adjust RV1002 on the LEAF SW board so that frequency counter reads $3,000 \pm 15$ Hz.

Adjustment Location: LEAF SW board

Playback level Adjustment **DECK A** **DECK B**

Procedure:

Mode: Playback



Deck A is RV302 (L-CH), Deck B is RV303 (L-CH) so that adjustment within adjustment level as follows.

Adjustment Level:

CN301 PB level: 334.4 to 748.7 mV ($-6.8 \text{ dB} \pm -0.5 \text{ dB}$) level
difference between the channels: within $\pm 0.5 \text{ dB}$

Adjustment Location: MAIN board

Sample Value of Wow and Flutter: 0.3% or less W. RMS
(WS-48B)

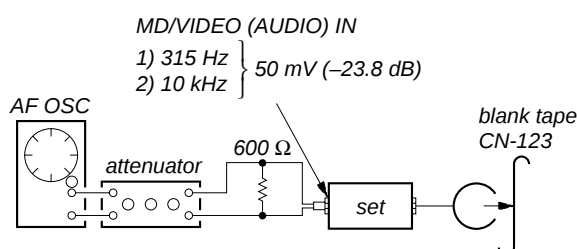
REC Bias Adjustment **DECK B****Procedure:****INTRODUCTION**

When set to the test mode performed in Tape Speed Adjustment, when the tape is rewound after recording, the "REC memory mode" which rewinds only the recorded portion and playback is set.

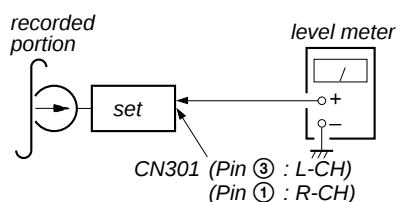
This "REC memory mode" is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO.

(If do not operation of stopped from recording complete, and rotette of shuttle knob then rewind to recording start position.)

1. Press **[MD (VIDEO)]** button to select VIDEO. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B.
3. After press **[REC PAUSE/START]** button, press **[REC PAUSE/START]** button, then recording start.
4. Mode: Record



5. Mode: Playback



6. Confirm playback the signal recorded in step 3 become adjustable level as follows.
If these levels do not adjustable level, adjustment the RV304 (L-CH) and RV354 (R-CH) on the AUDIO board to repeat steps 4 and 5.

Adjustable level: Playback output of 315 Hz to playback output of 10 kHz: ± 1.0 dB

Adjustment Location: MAIN board

REC Level Adjustment **DECK B****Procedure:****INTRODUCTION**

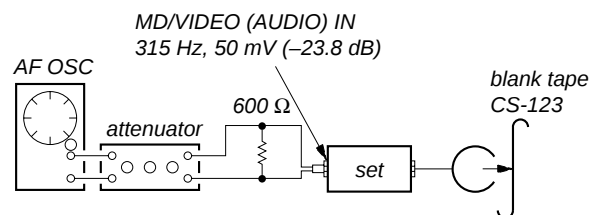
When set to the test mode performed in Tape Speed Adjustment, when the tape is rewound after recording, the "REC memory mode" which rewinds only the recorded portion and playback is set.

This "REC memory mode" is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO.

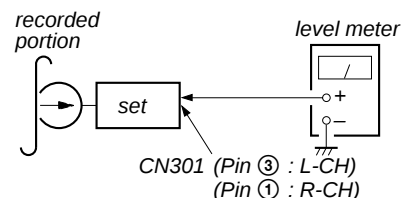
(If do not operation of stopped from recording complete, and rotate of shuttle knob then rewind to recording start position.)

1. Press **[MD (VIDEO)]** button to select VIDEO. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B.
3. After press **[REC PAUSE/START]** button, press **[REC PAUSE/START]** button, then recording start.

4. Mode: Record



5. Mode: Playback



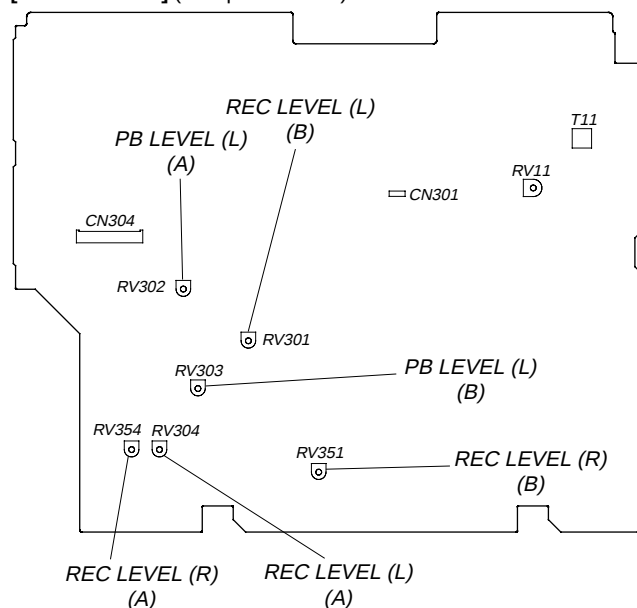
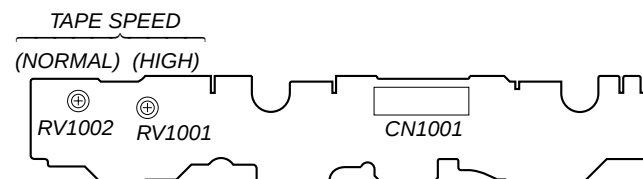
6. Confirm playback the signal recorded in step 3 become adjustable level as follows.

If these levels do not adjustable level, adjustment the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 4 and 5.

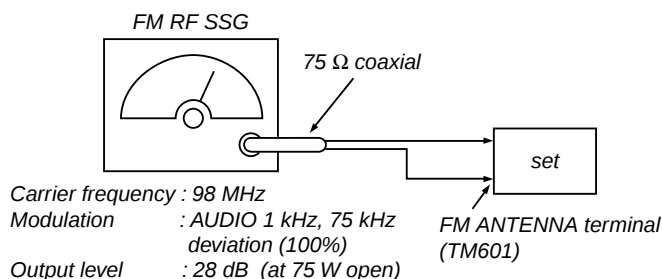
Adjustable level:

CN301 PB level: 47.2 to 53.0 mV (-27.3 to -26.3 dB)

Adjustment Location: MAIN board

[MAIN BOARD] (Component Side)**[LEAF SW BOARD] (Component Side)**

FM Tuned Level Adjustment

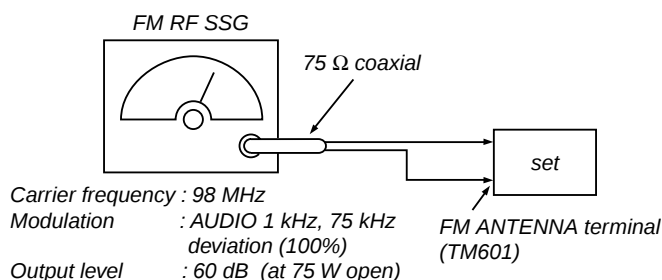


Procedure:

1. Supply a 28 dB 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Adjust RV11 to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location: MAIN board

Null Adjustment



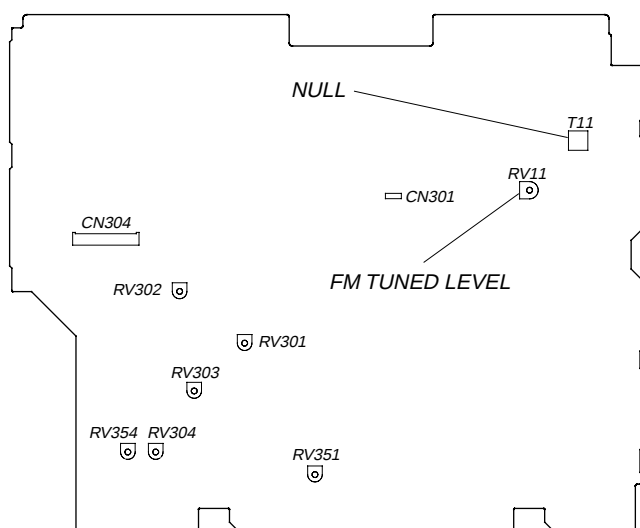
Procedure:

1. Supply a 60 dB 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Measure voltage between pin 21 of IC 601. Adjust T11 until the voltage becomes 0 V.

Adjustment Location: MAIN board

Adjustment Location

[MAIN BOARD] Component side

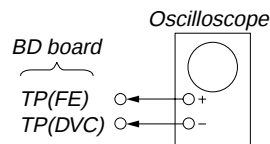


CD SECTION

Note :

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use LUV-P01 (4-999-032-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

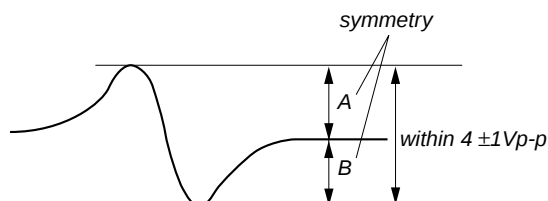
S-Curve Check



Procedure :

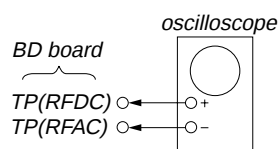
1. Connect oscilloscope to TP (FE).
2. Connect between TP (FE) and TP (DVC (≒ 1.65 V) by lead wire.
3. Turn Power switch on.
4. Load a disc (LUV-P01) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
5. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2 ± 0.5 Vp-p.

S-curve waveform



6. After check, remove the lead wire connected in step 2.
- Note :
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
 - Take sweep time as long as possible and light up the brightness to obtain best waveform.

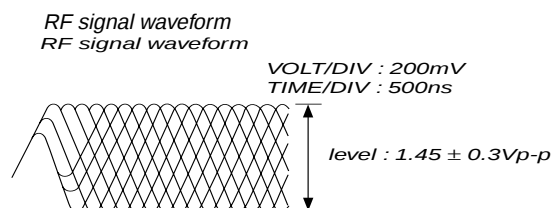
RF Level Check



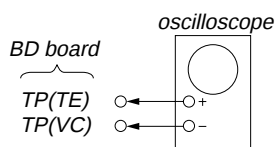
Procedure :

1. Connect oscilloscope to TP2 (RFDC) and TP1 (RFAC).
2. Turned Power switch on.
3. Load a disc (LUV-P01) and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note: Clear RF signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.

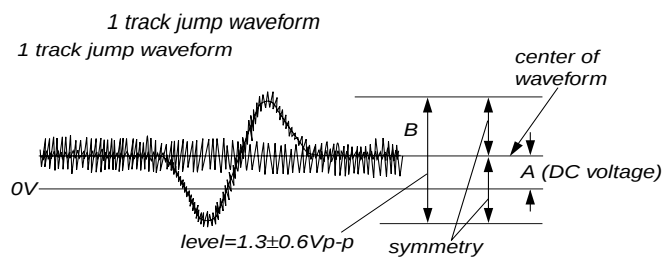


E-F Balance (1 Track jump) Check



Procedure:

1. Connect oscilloscope to TP (TE) and TP (DVC) board.
2. Turned Power switch on.
3. Load a disc (LUV-P01) and playback the number nine track.
4. Press the button. (Becomes the 1track jump mode.)
5. Confirm that the level B and A (DC voltage) on the oscilloscope waveform.

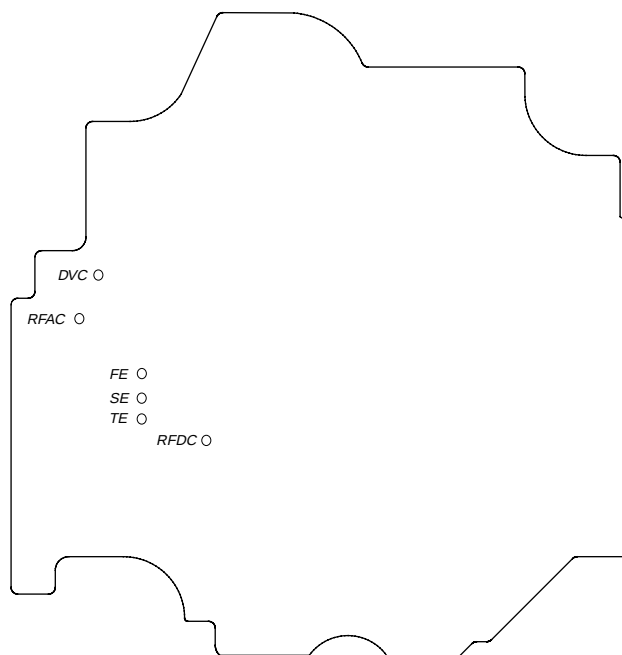


Specified level: $\frac{A}{B} \times 100 = \text{less than } \pm 22\%$

6. Adjust RV101 so that A (DC voltage) becomes 0.

Checking Location:

[BD BOARD]



SECTION 6

DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.

(In addition to this, the necessary note is printed in each block.)

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$
50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- $\triangle$: internal component.
-  : 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.

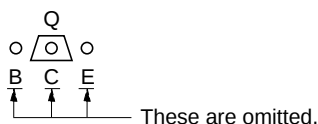
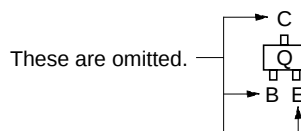
Note:

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

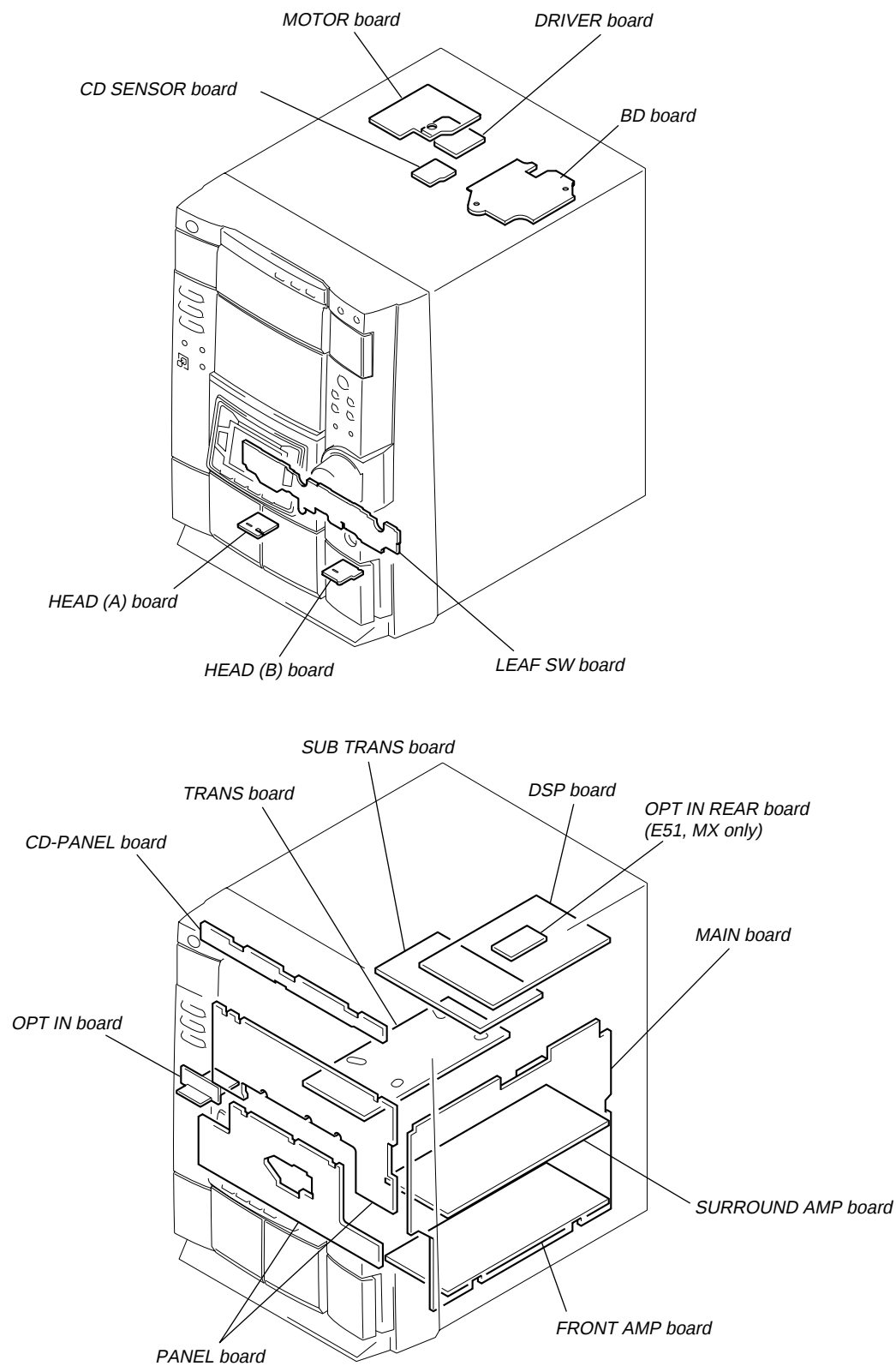
-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance $10\text{ M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
-  : FM
-  : AM
-  : PB (DECK A)
-  : PB (DECK B)
-  : REC (DECK B)
-  : digital out
-  : MD (VIDEO)
- Abbreviation
- CND : Canadian model
- MX : Mexican model
- E51 : Chiri and Peru model

Note on Printed Wiring Boards:

-  : parts extracted from the component side.
-  : Pattern from the side which enables seeing.
- Indication of transistor.

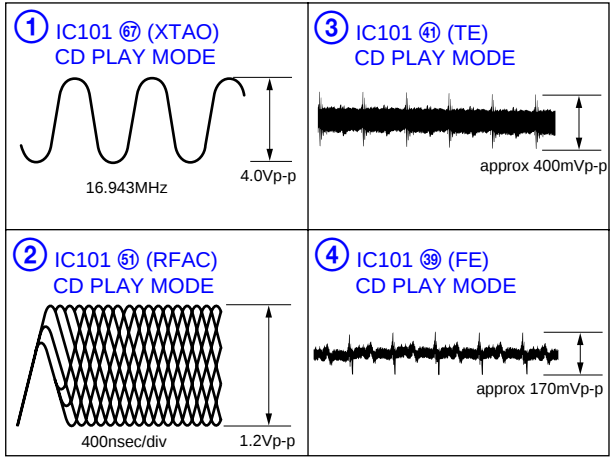


6-1. CIRCUIT BOARD LOCATION

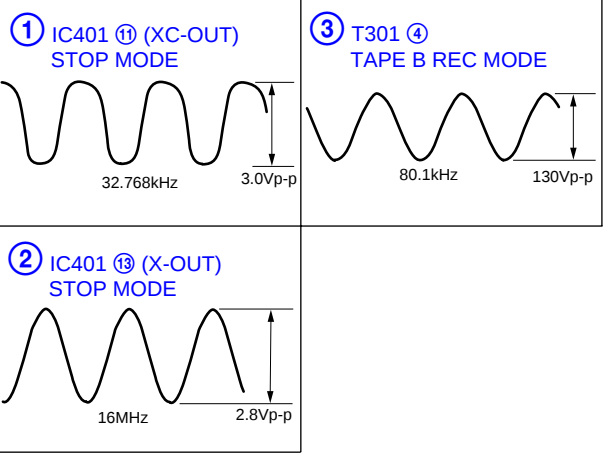


• WAVEFORMS

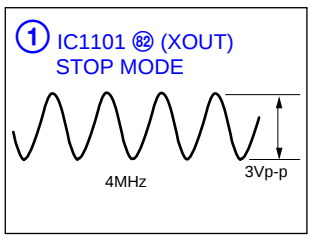
– BD BOARD –



– MAIN BOARD –

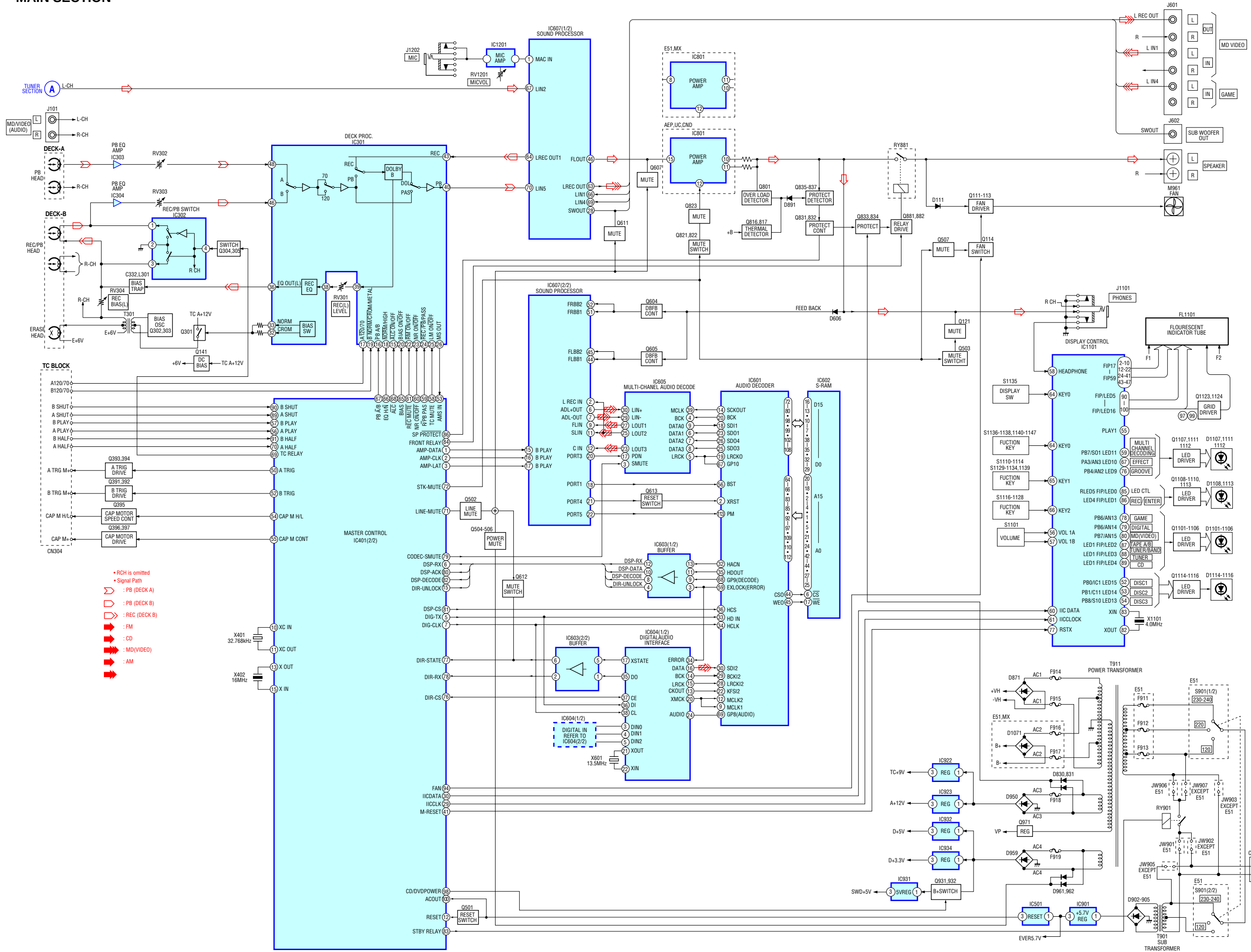


– PANEL BOARD –

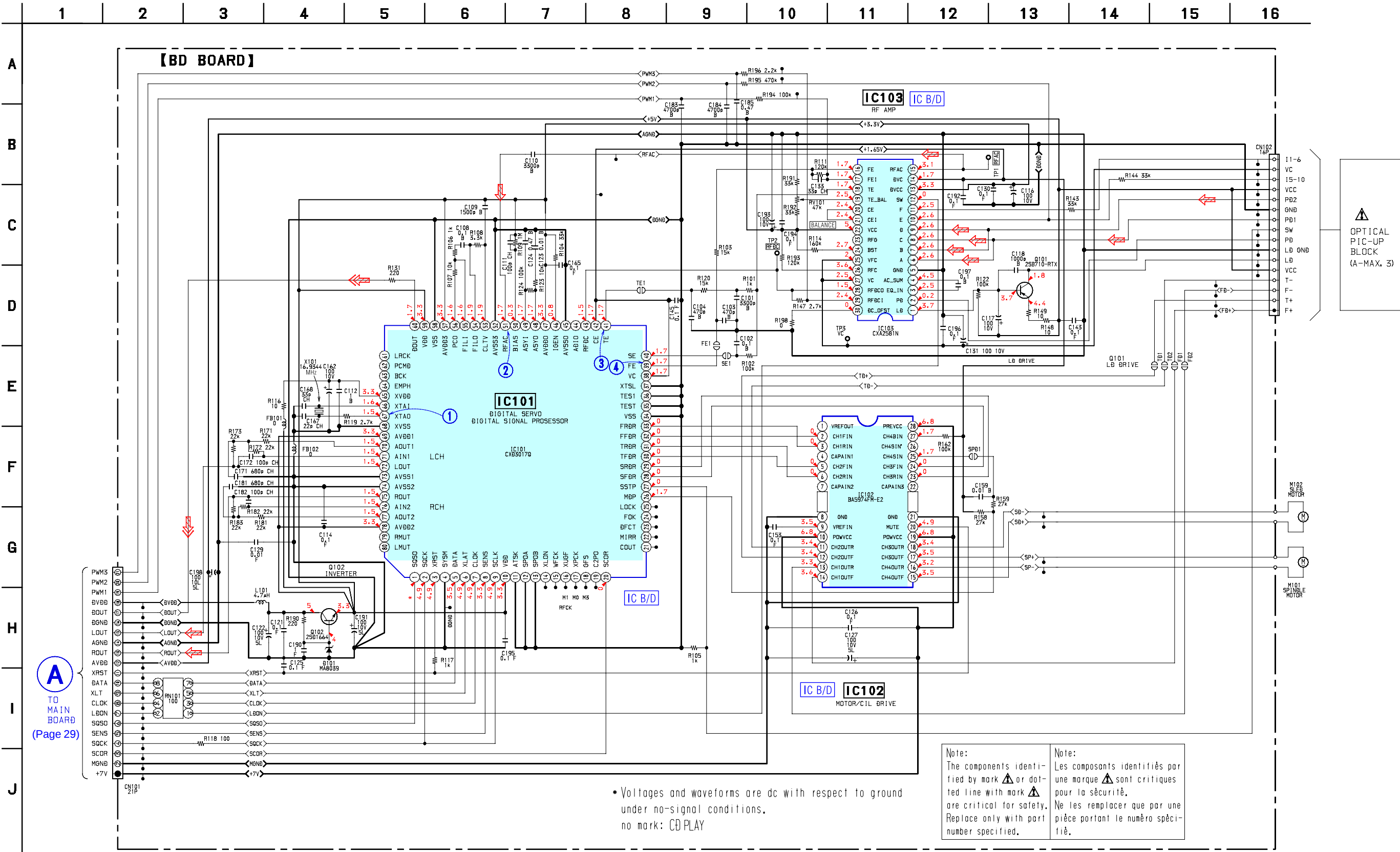




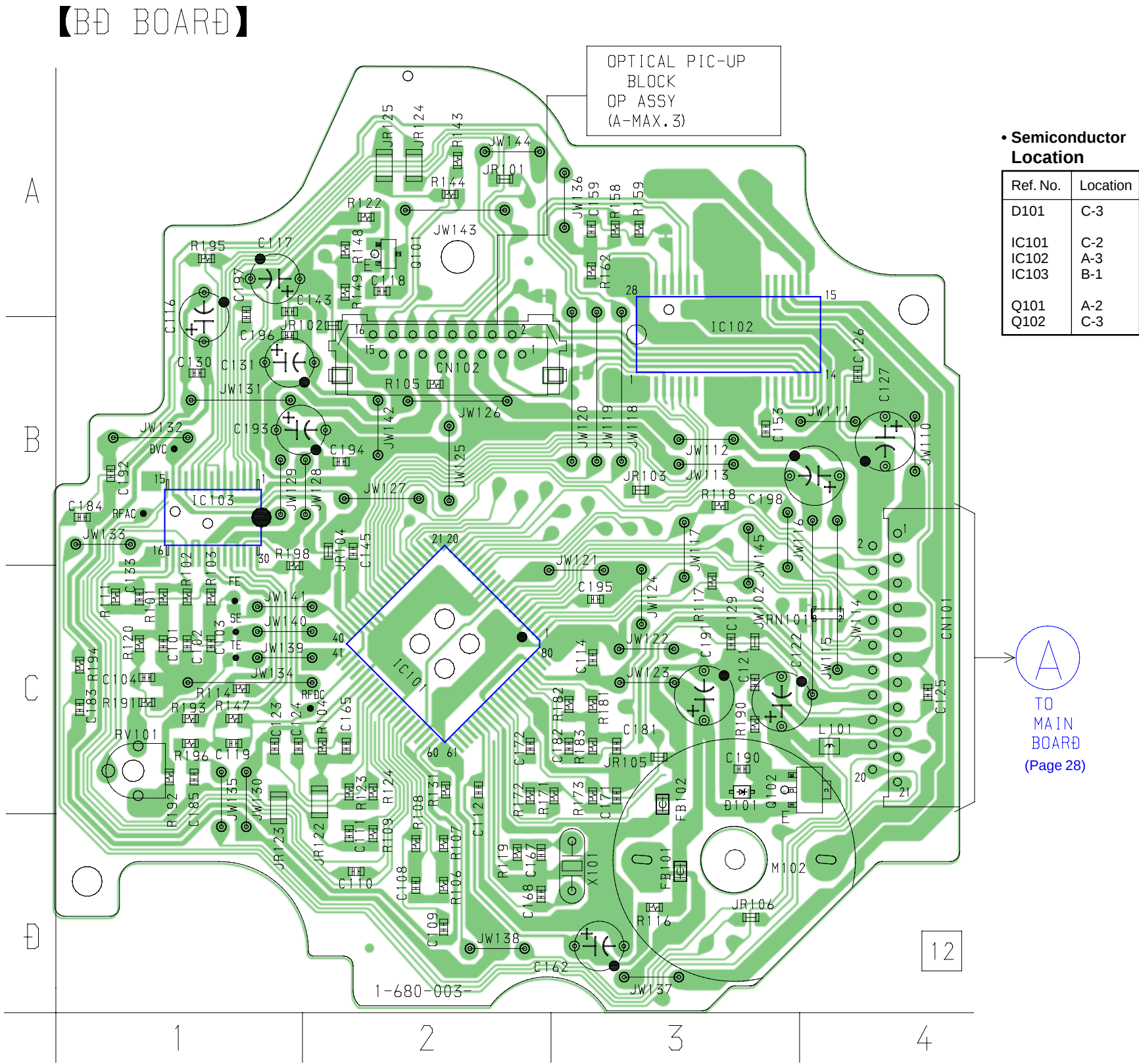
- MAIN SECTION -



6-3. SCHEMATIC DIAGRAM – BD SECTION – • See page 23 for Waveforms. • See page 58, 59 for IC Block Diagrams. • See page 51, 52 for IC Pin Function.



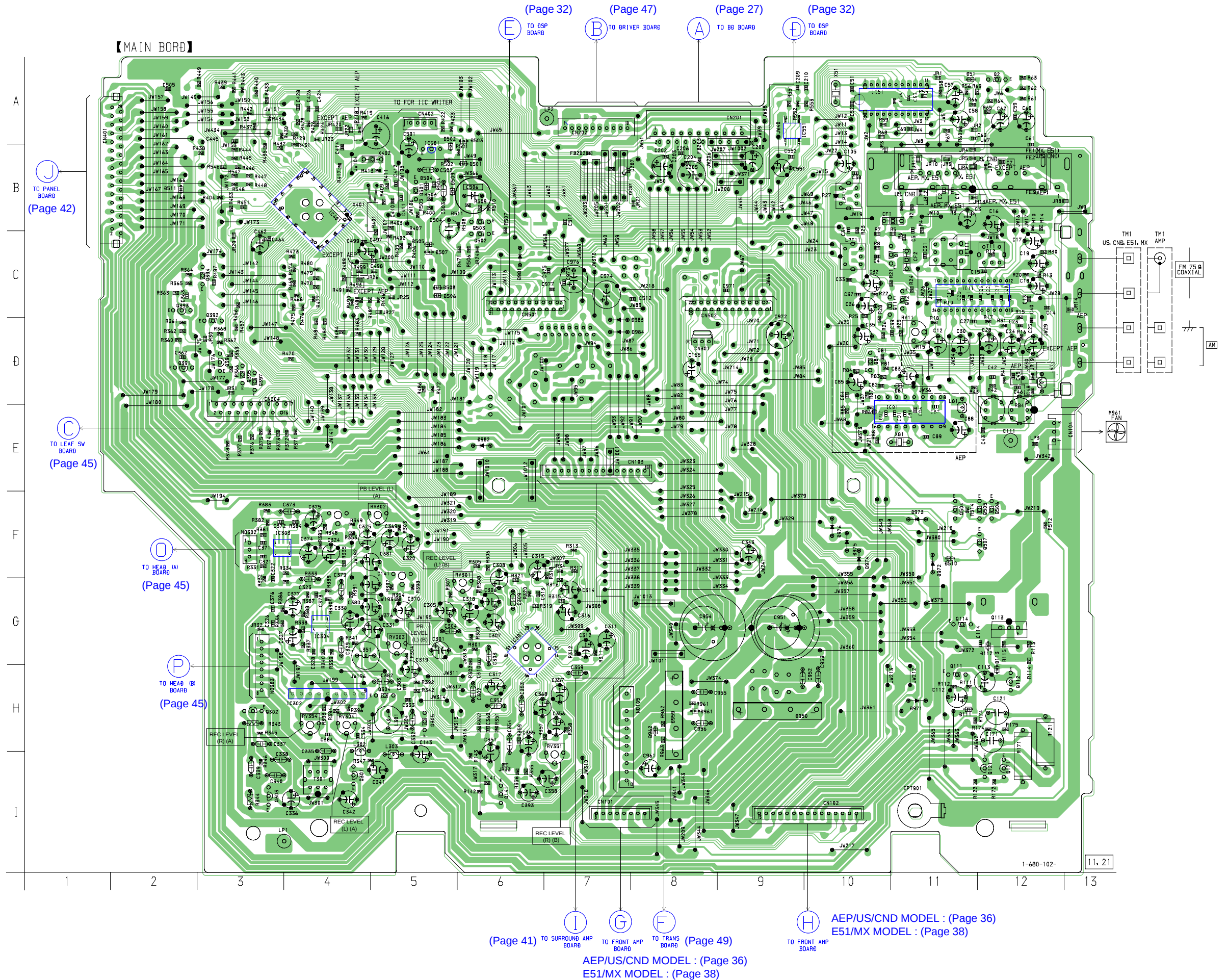
6-4. PRINTED WIRING BOARD – BD SECTION – • See page 23 for Circuit Boards Location.



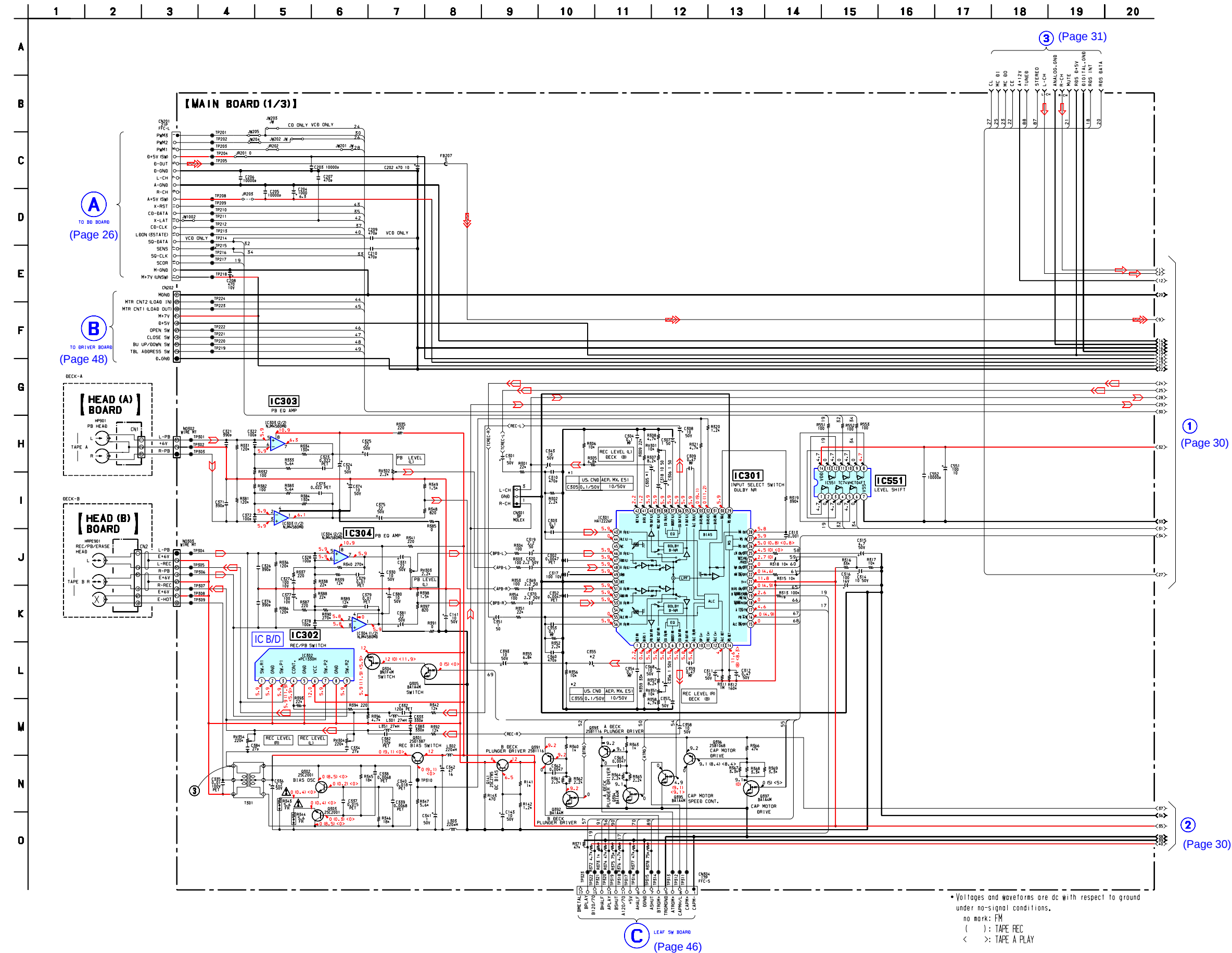
6-5. PRINTED WIRING BOARD – MAIN SECTION – • See page 23 for Circuit Boards Location.

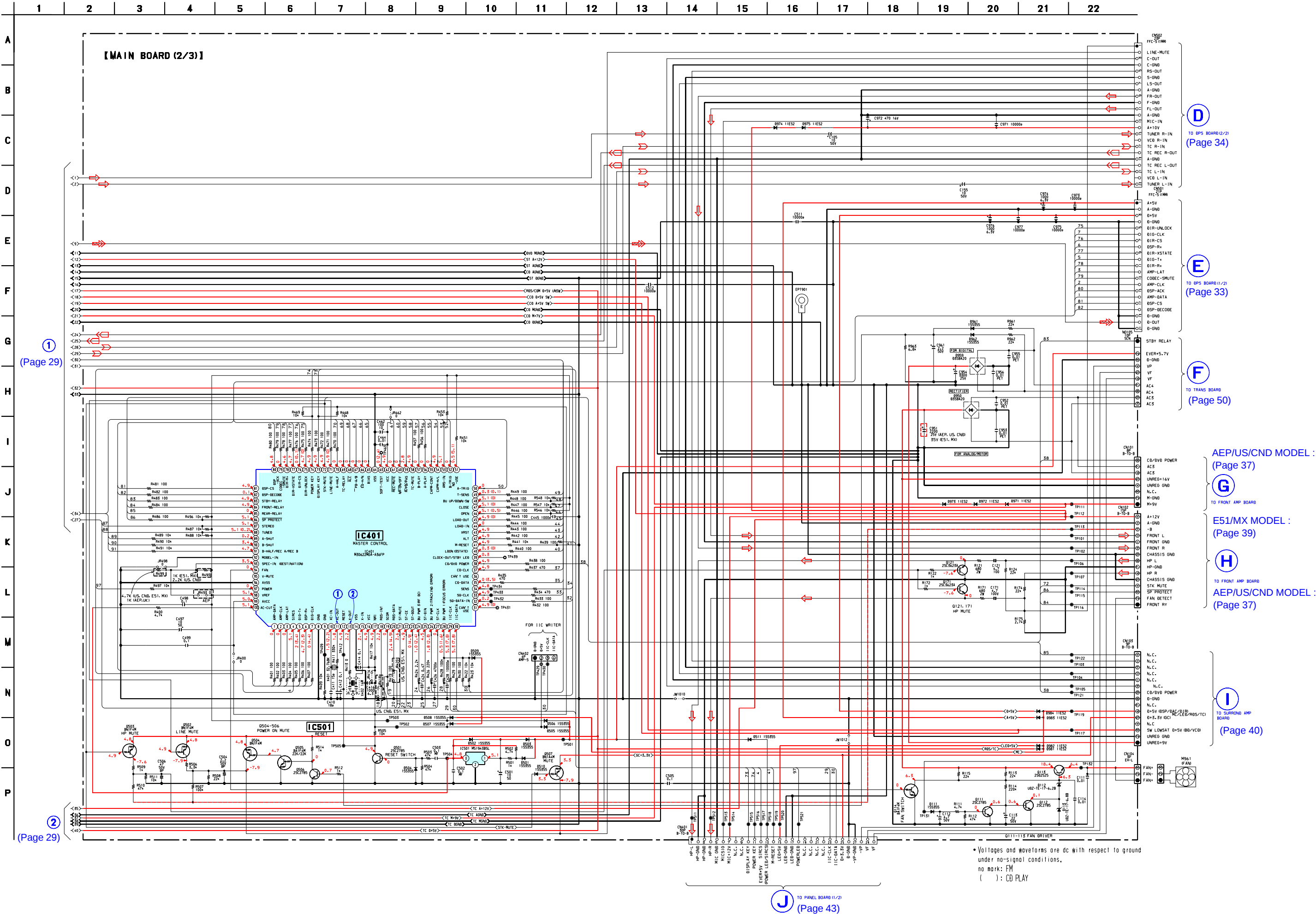
- **Semiconductor Location**

Ref. No.	Location
D51	A-11
D81	D-11
D111	H-11
D112	G-12
D113	H-12
D501	B-5
D502	B-5
D503	B-6
D504	B-5
D505	C-5
D506	C-5
D507	C-5
D508	C-5
D509	B-5
D510	F-11
D511	B-2
D950	H-9
D959	H-8
D961	H-8
D962	H-8
D971	H-11
D972	F-11
D973	F-11
D974	F-10
D975	F-10
D976	F-10
D981	C-6
D982	E-6
D983	D-7
D984	D-7
IC11	C-11
IC51	A-10
IC81	E-10
IC301	G-6
IC302	H-4
IC303	F-3
IC304	G-4
IC401	B-4
IC501	B-5
IC551	A-9
Q1	C-10
Q2	A-12
Q11	C-10
Q12	C-11
Q81	E-10
Q111	H-11
Q112	H-12
Q113	G-12
Q114	G-11
Q121	I-12
Q141	I-6
Q171	I-12
Q301	I-4
Q302	H-3
Q303	I-3
Q304	H-5
Q305	H-5
Q391	D-2
Q392	D-3
Q393	C-2
Q394	C-3
Q395	D-3
Q396	D-3
Q397	D-3
Q501	B-5
Q502	C-6
Q503	B-6
Q504	F-11
Q505	F-11
Q506	F-12
Q507	F-12

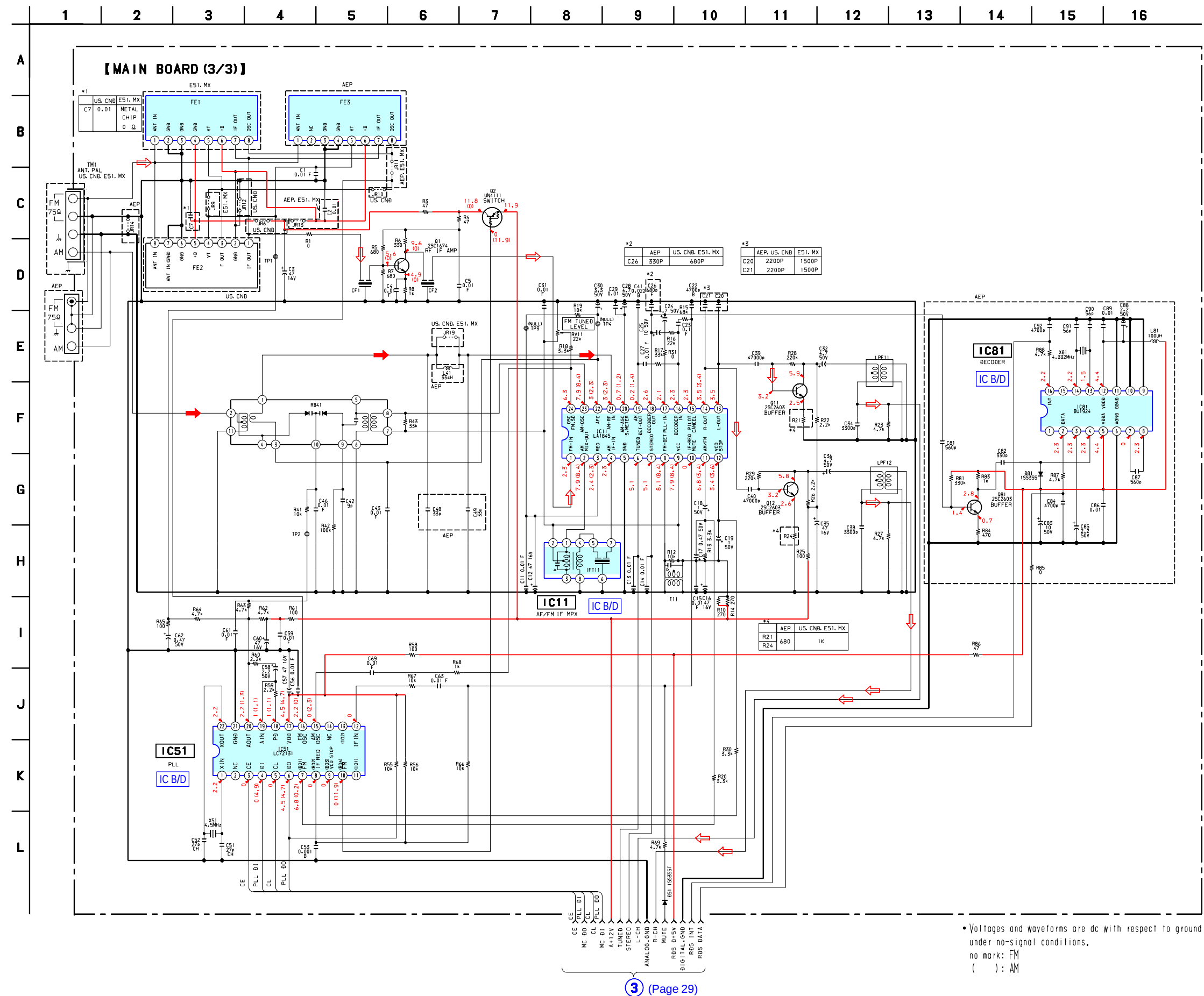


6-6. SCHEMATIC DIAGRAM – MAIN (1/3) SECTION – • See page 23 for Waveforms. • See page 59 for IC Block Diagrams.

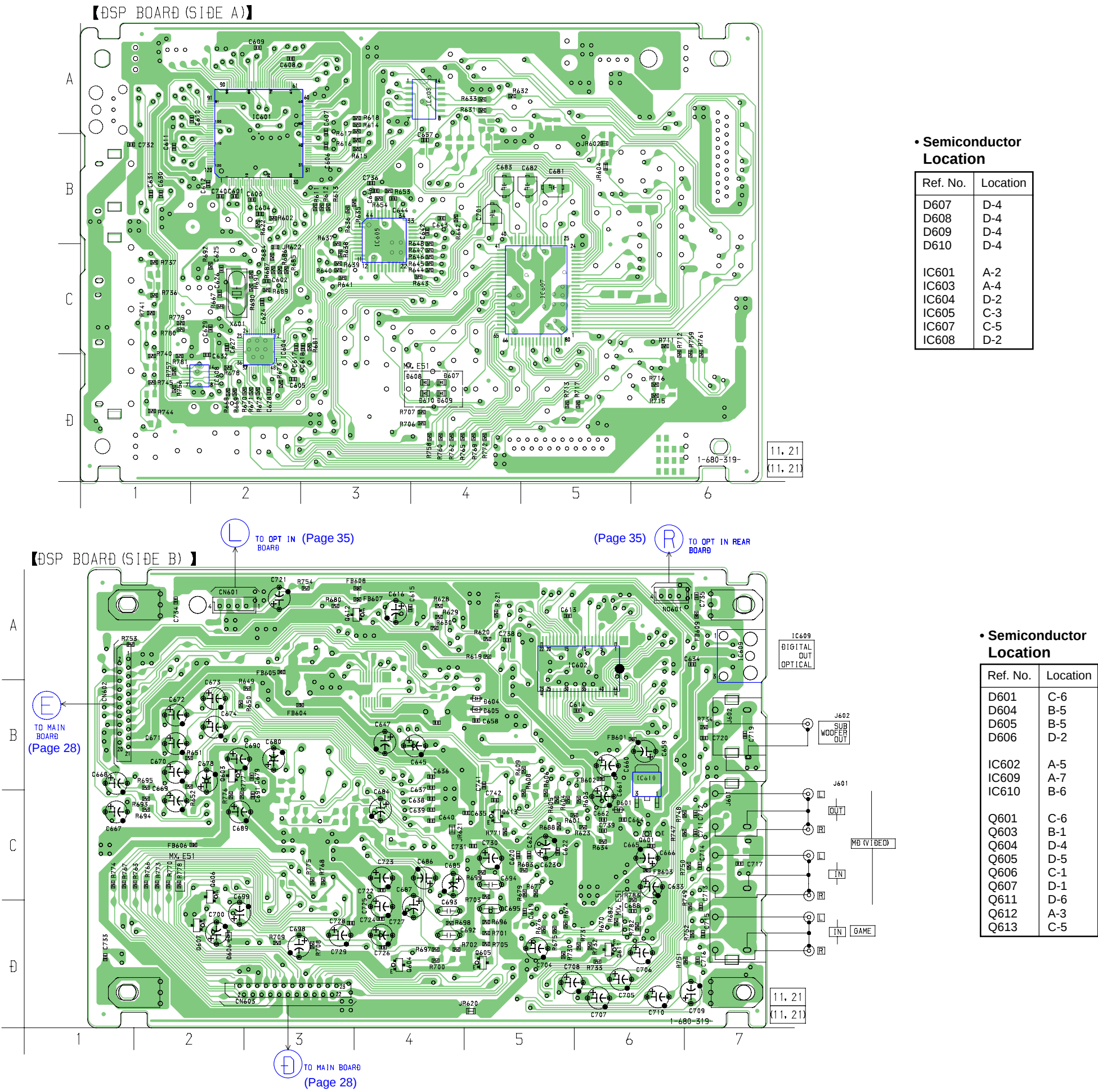




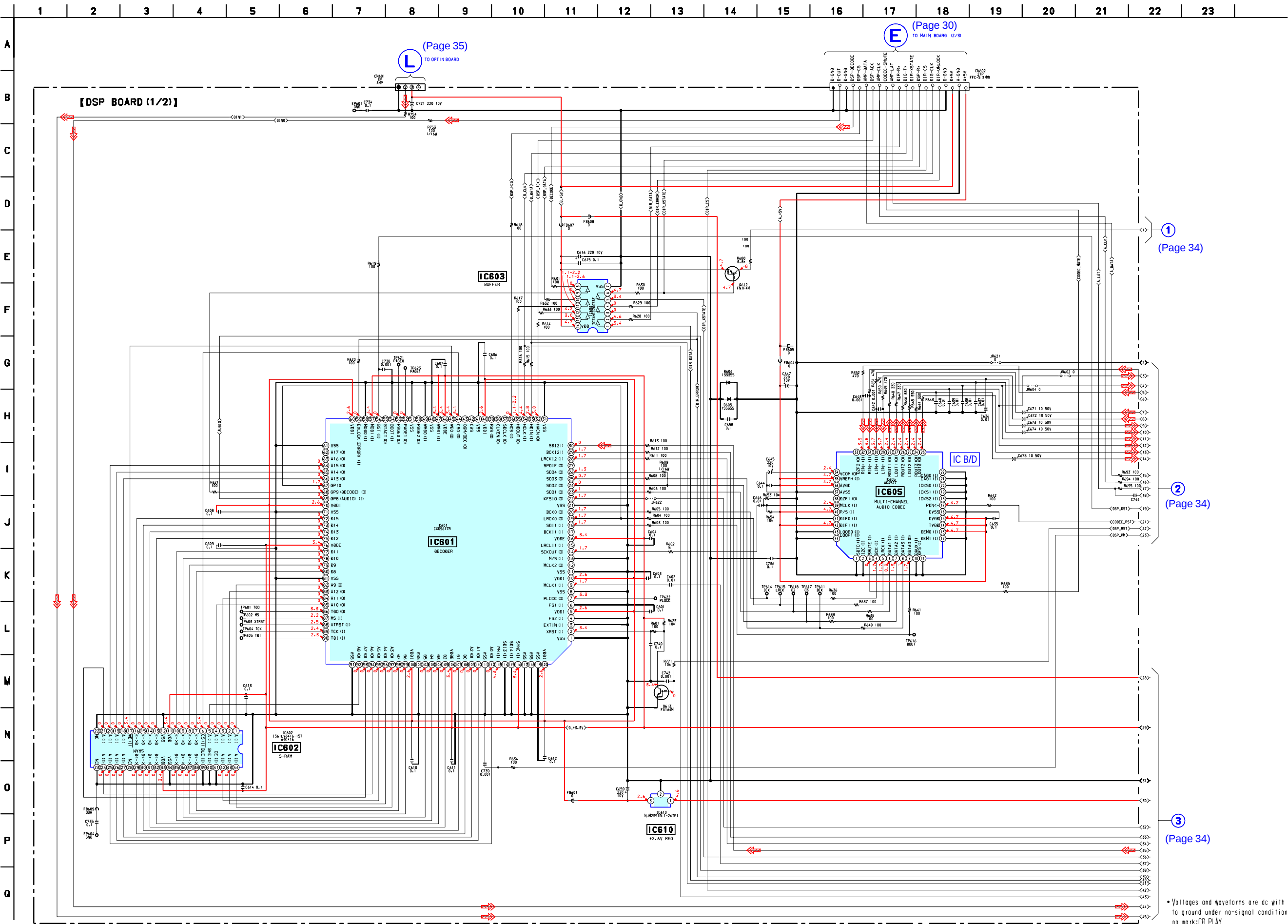
6-8. SCHEMATIC DIAGRAM – MAIN (3/3) SECTION – • See page 59, 60 for IC Block Diagrams.



6-9. PRINTED WIRING BOARD – DSP SECTION – • See page 23 for Circuit Boards Location.

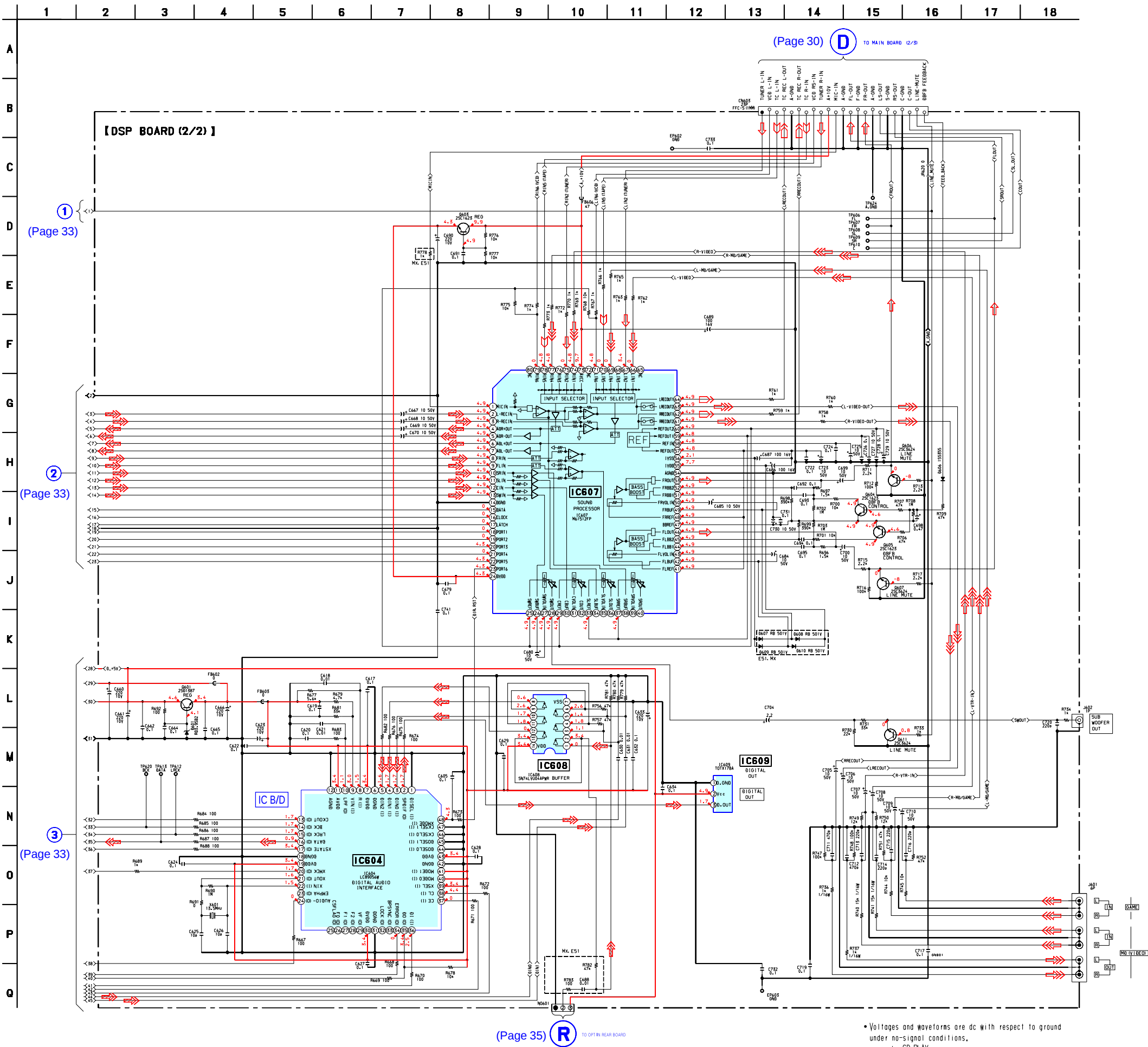


6-10. SCHEMATIC DIAGRAM – DSP (1/2) SECTION – • See page 61 for IC Block Diagrams. – • See page 56, 57 for IC Pin Function.

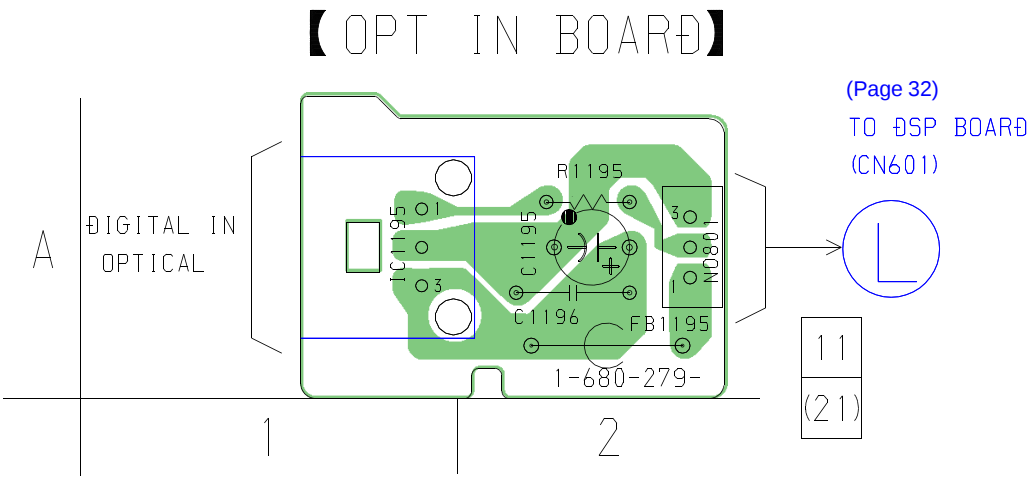


• Voltages and waveforms are dc with respect to ground under no-signal conditions, no mark:CD PLAY

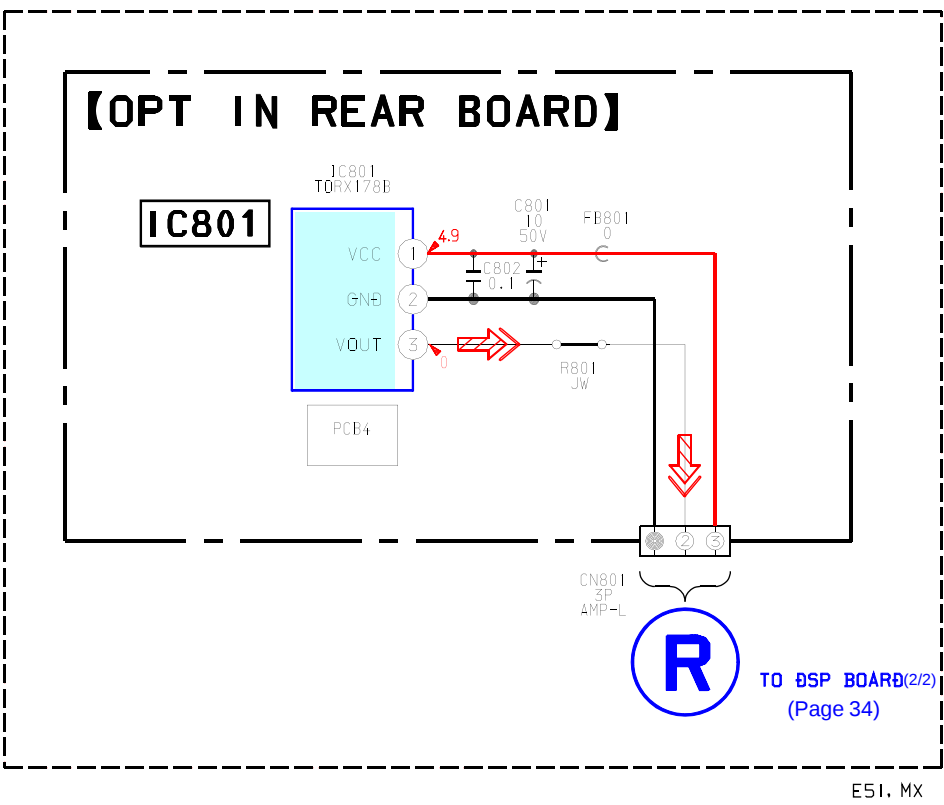
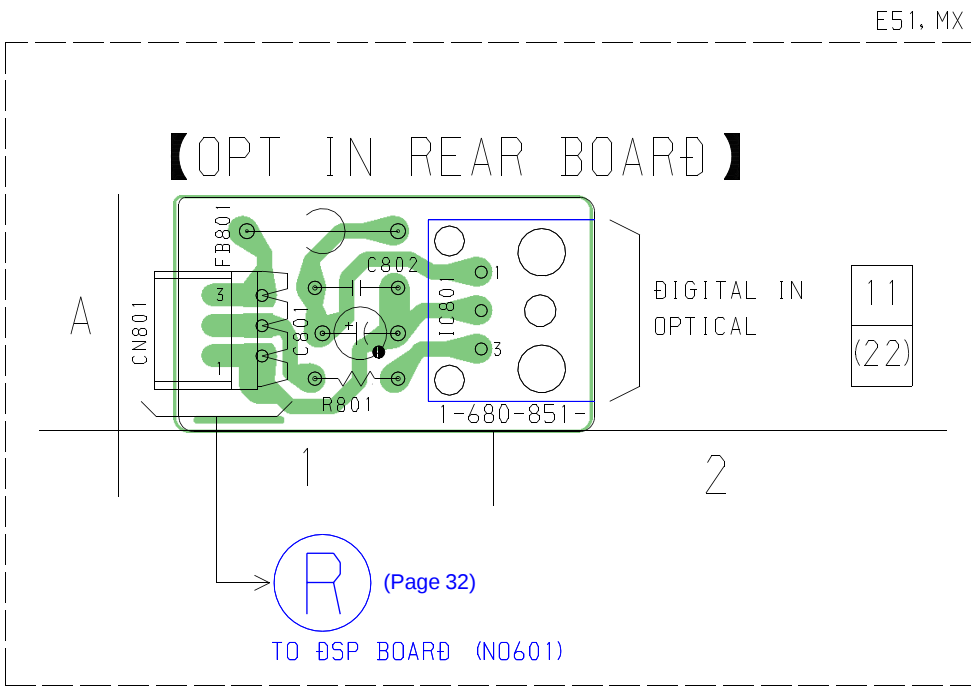
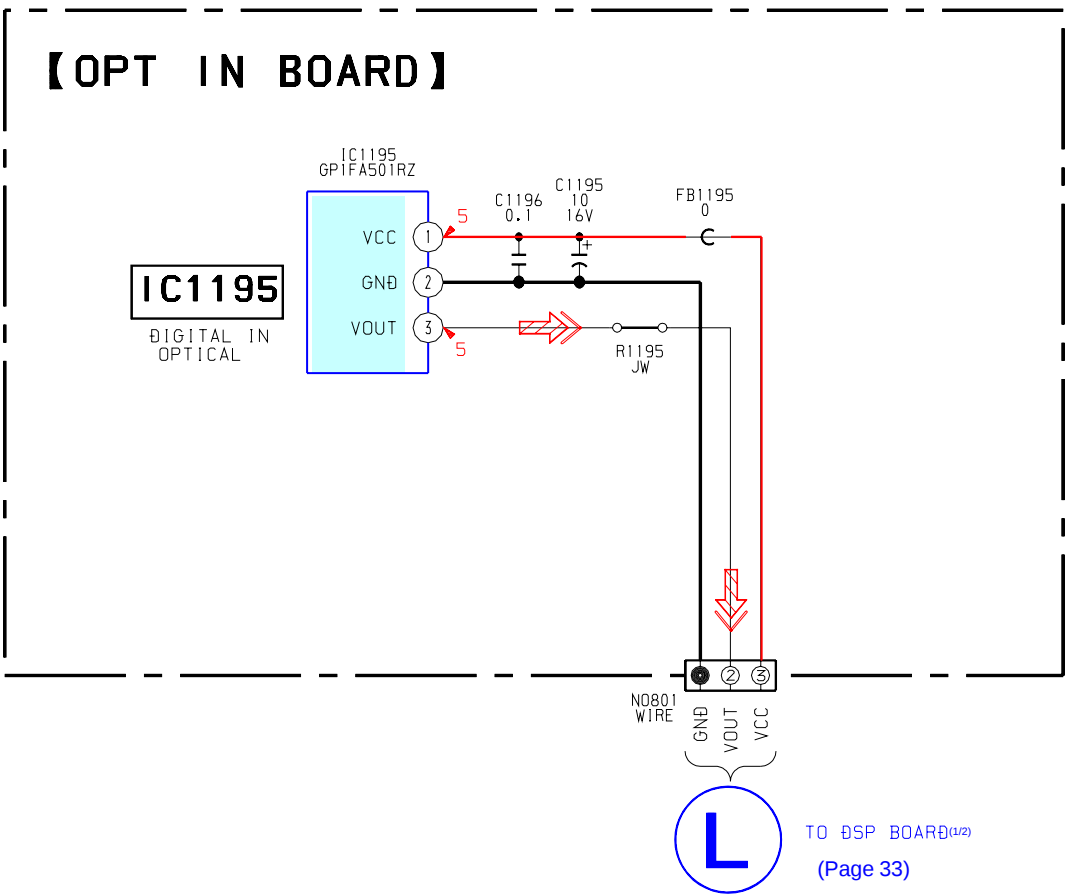
6-11. SCHEMATIC DIAGRAM – DSP (2/2) SECTION – • See page 61 for IC Block Diagrams. –



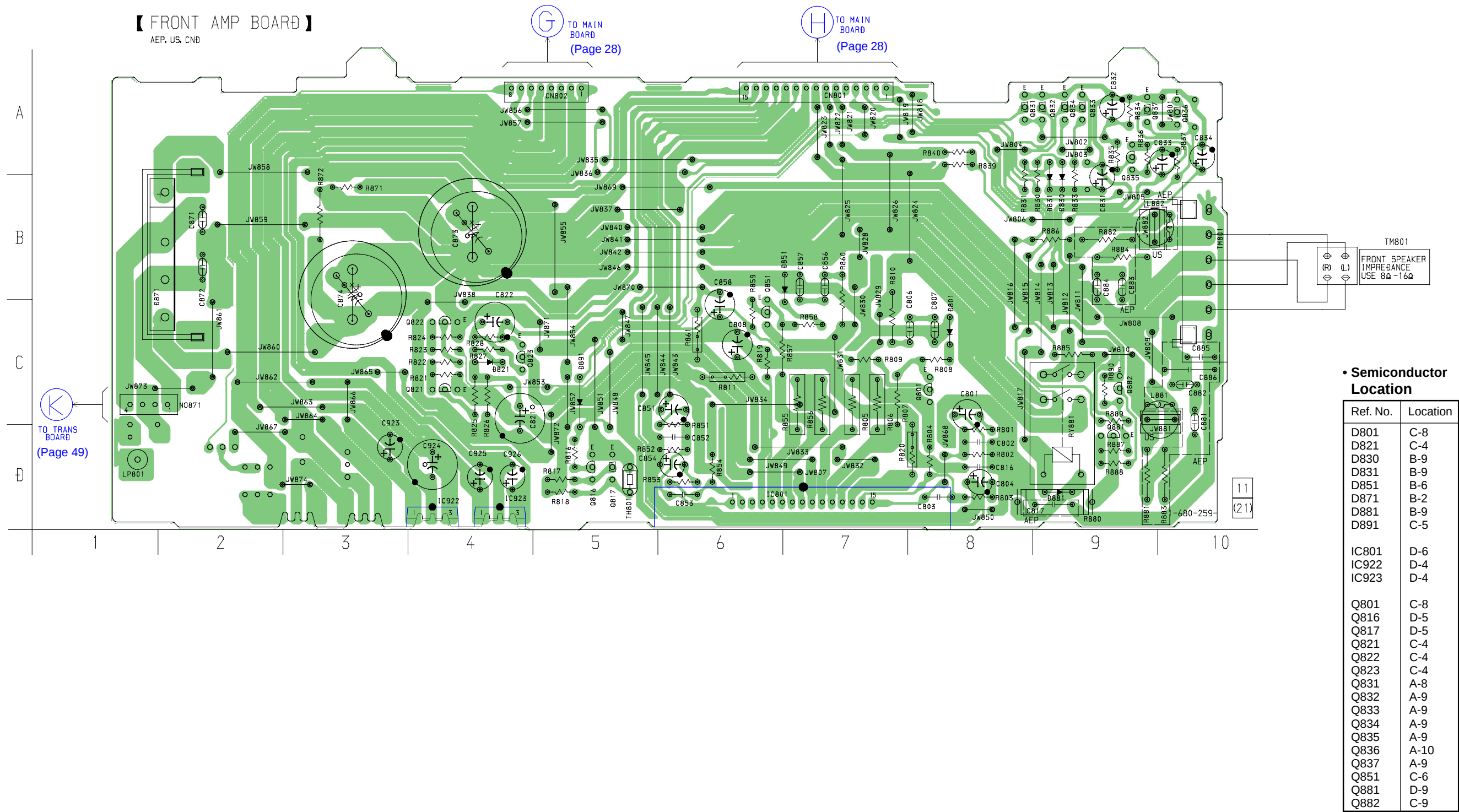
6-12. PRINTED WIRING BOARD – OPT SECTION – • See page 23 for Circuit Boards Location.



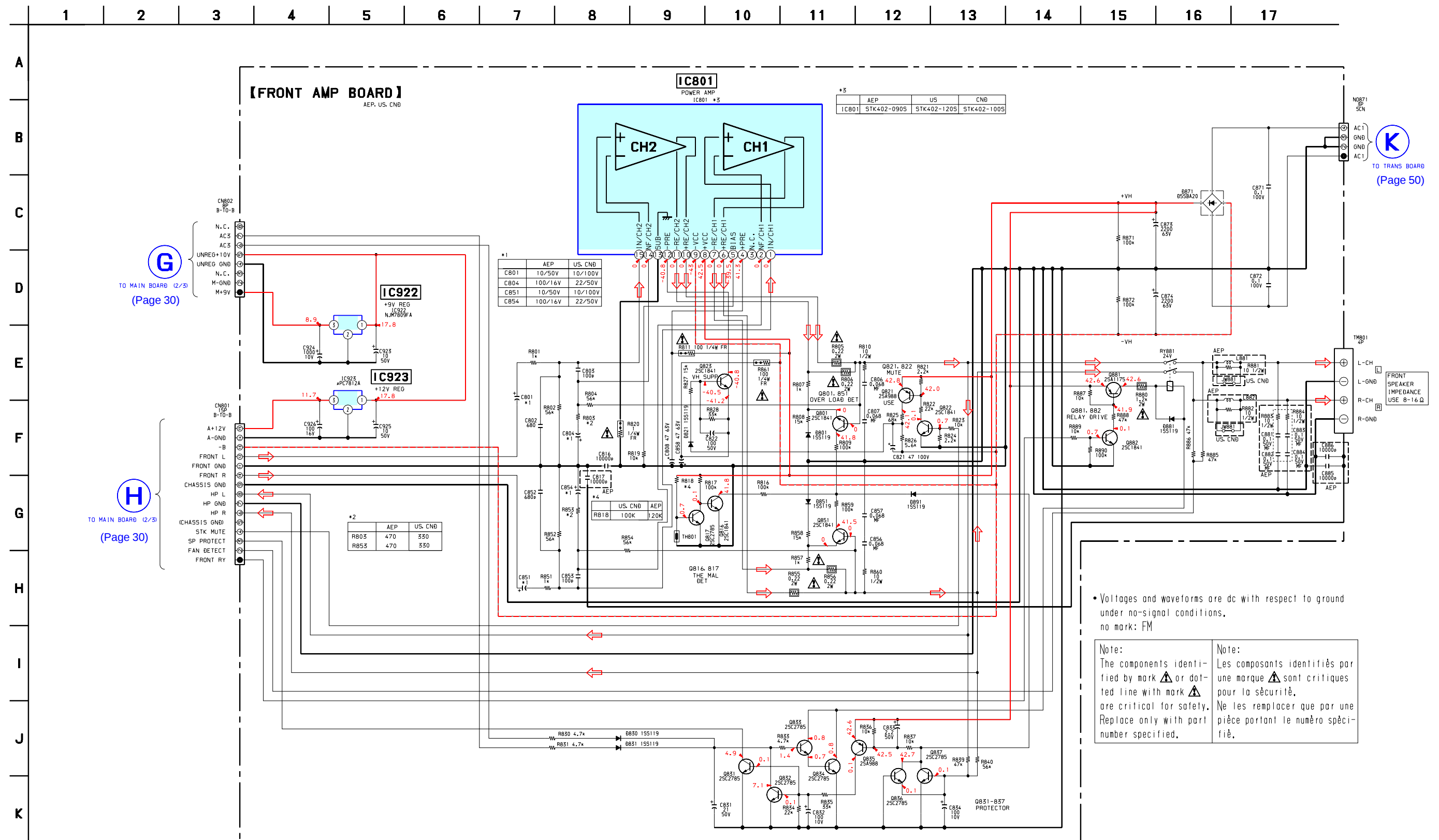
6-13. SCHEMATIC DIAGRAM – OPT SECTION – • See page 59 for IC Block Diagrams.



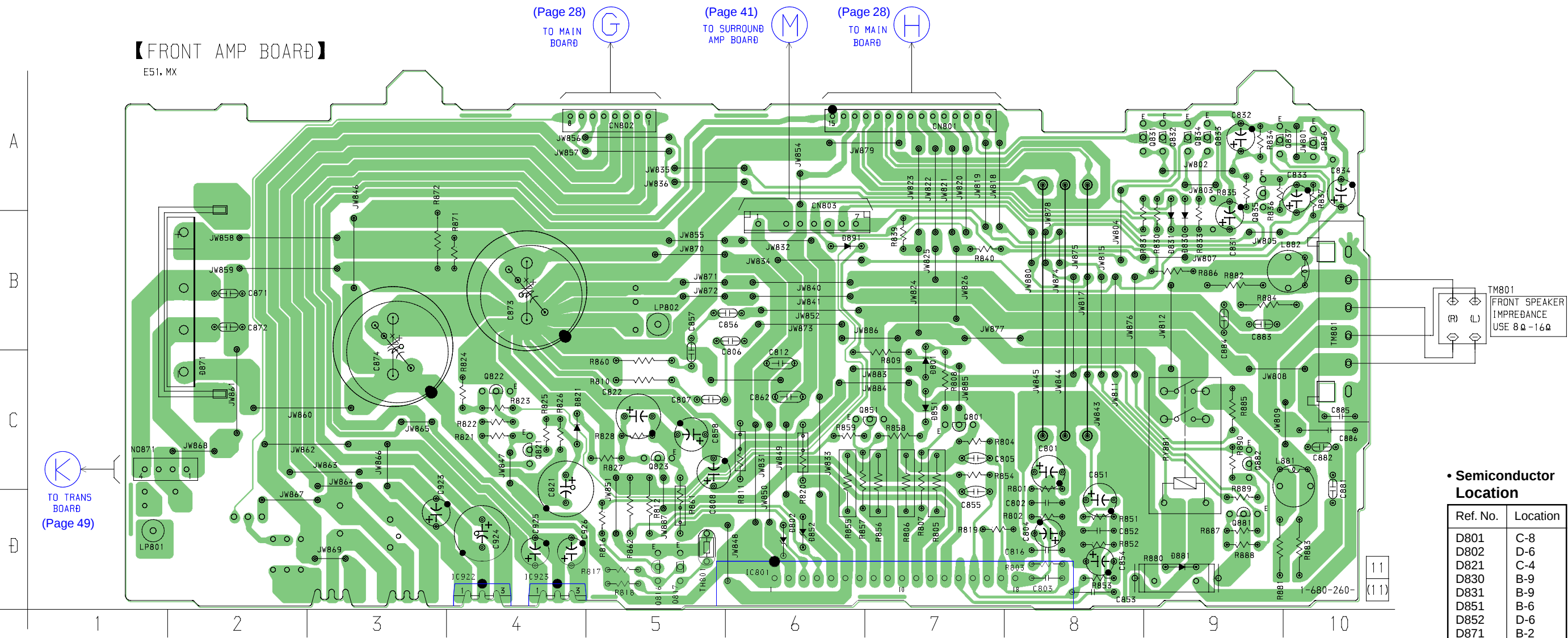
6-14. PRINTED WIRING BOARD – FRONT AMP SECTION – (AEP/US/CND model) • See page 23 for Circuit Boards Location.



6-15. SCHEMATIC DIAGRAM – FRONT AMP SECTION – (AEP/US/CND model)



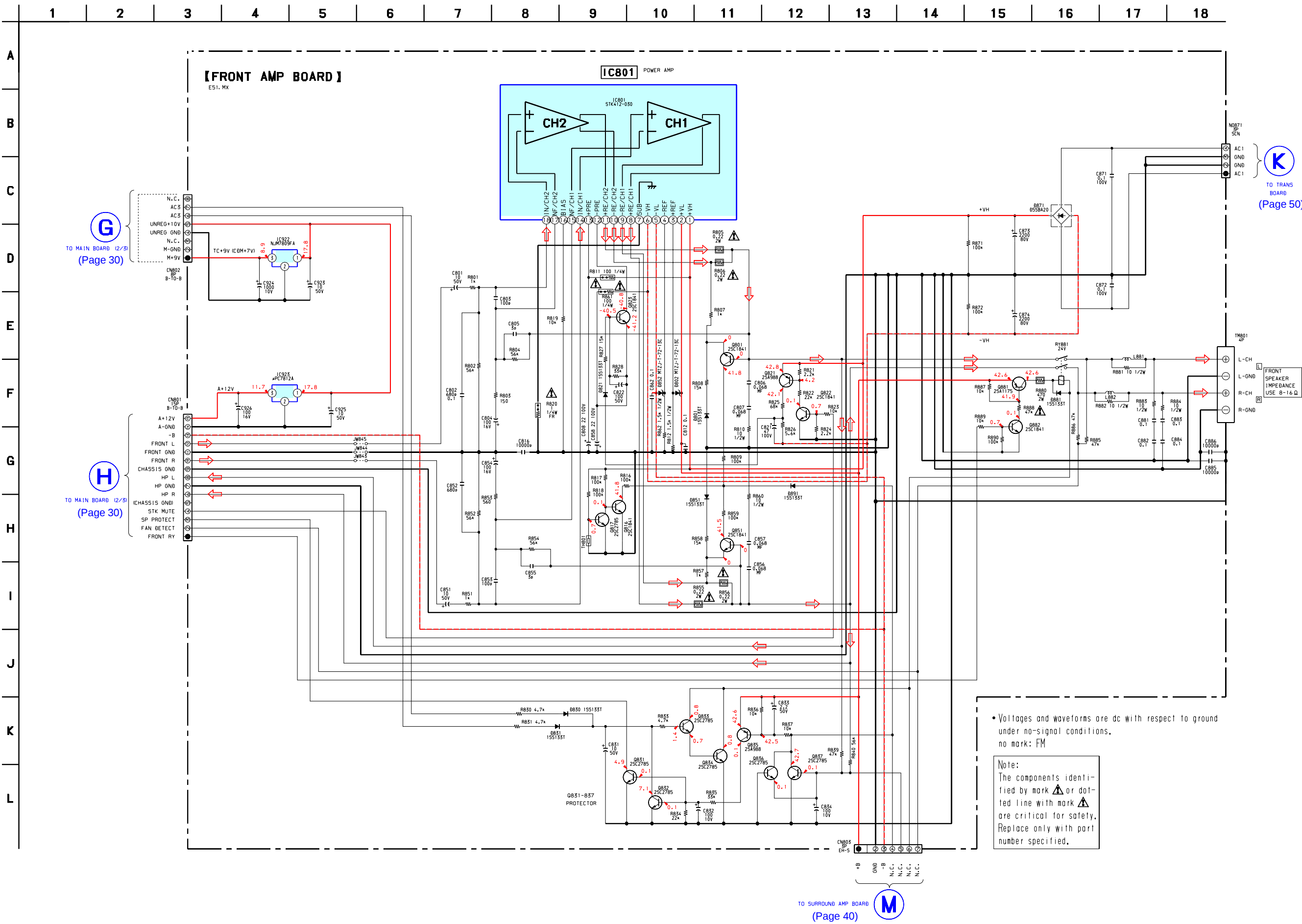
6-16. PRINTED WIRING BOARD – FRONT AMP SECTION – (E51/MX model) • See page 23 for Circuit Boards Location.



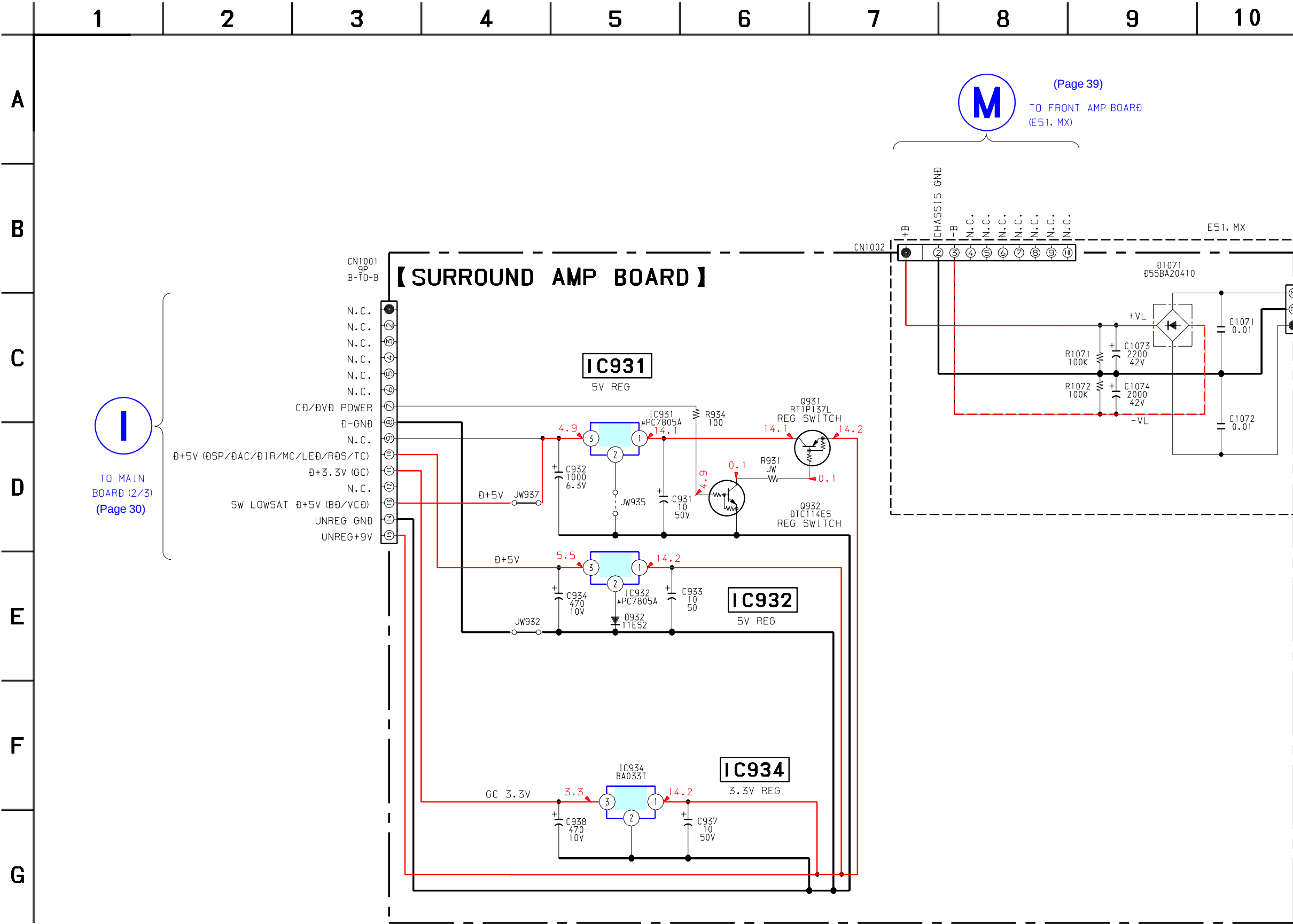
• Semiconductor Location

Ref. No.	Location
D801	C-8
D802	D-6
D821	C-4
D830	B-9
D831	B-9
D851	B-6
D852	D-6
D871	B-2
D881	B-9
D891	C-5
IC801	D-6
IC922	D-4
IC923	D-4
Q801	C-8
Q816	D-5
Q817	D-5
Q821	C-4
Q822	C-4
Q823	C-4
Q831	A-8
Q832	A-9
Q833	A-9
Q834	A-9
Q835	A-9
Q836	A-10
Q837	A-9
Q851	C-6
Q881	D-9
Q882	C-9

6-17. SCHEMATIC DIAGRAM – FRONT AMP SECTION – (E51/MX model)

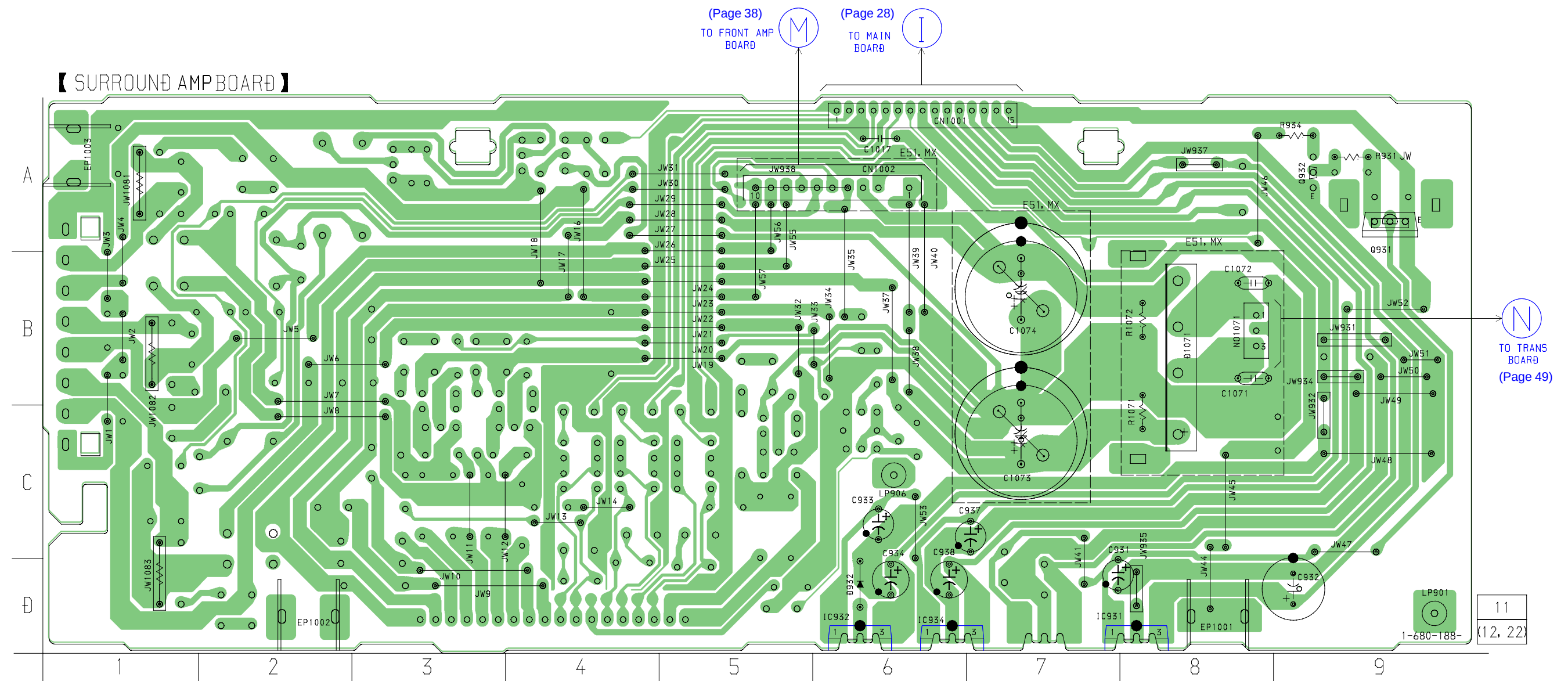


6-18. SCHEMATIC DIAGRAM – SURROUND AMP SECTION –



• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark: CD STOP

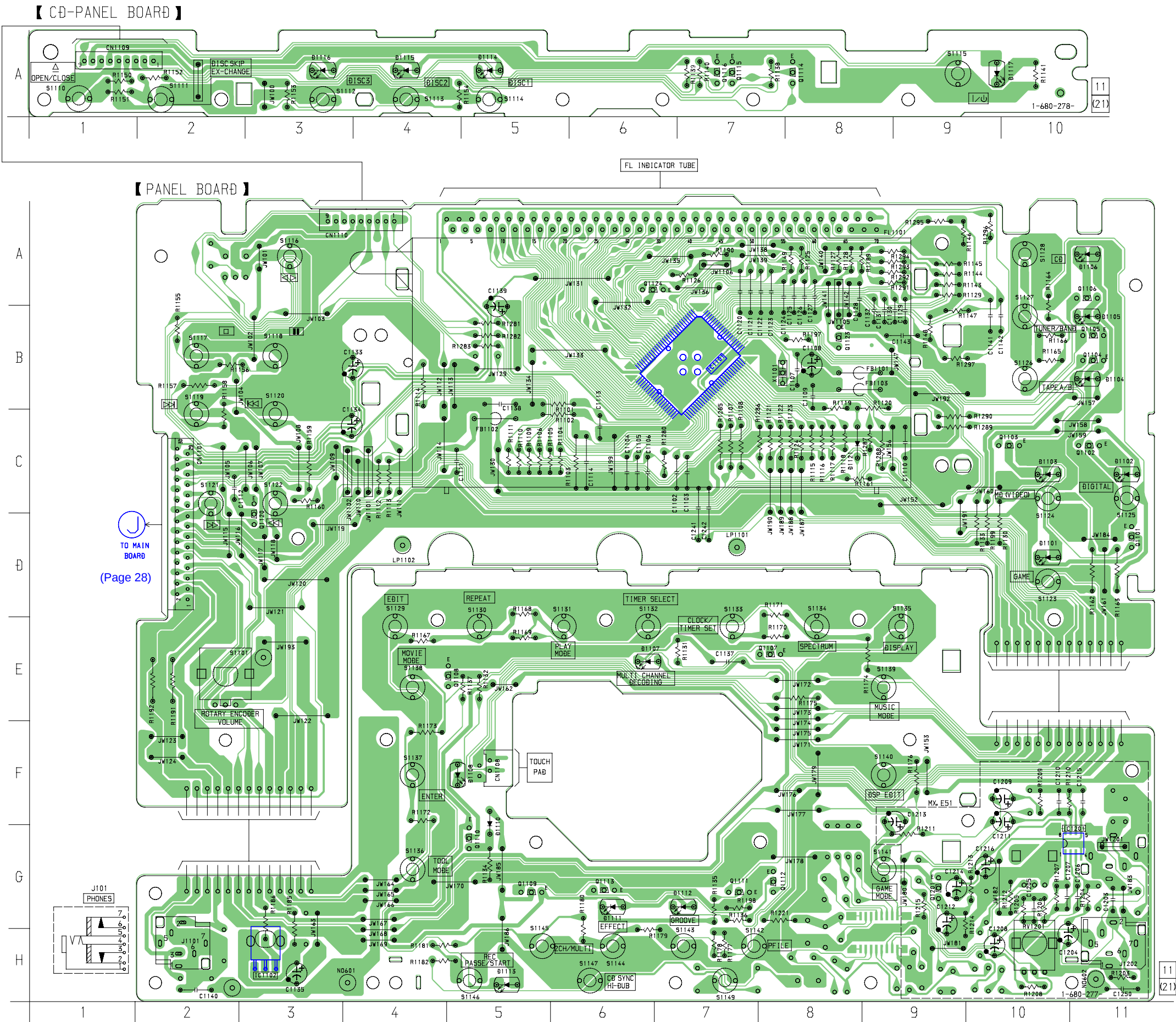
6-19. PRINTED WIRING BOARD – SURROUND AMP SECTION – • See page 23 for Circuit Boards Location.



- **Semiconductor Location**

Ref. No.	Location
D932	D-6
D1071	B-8
IC931	D-7
IC932	D-6
IC934	D-6
Q931	A-9
Q932	A-9

6-20. PRINTED WIRING BOARD – PANEL SECTION – • See page 23 for Circuit Boards Location.



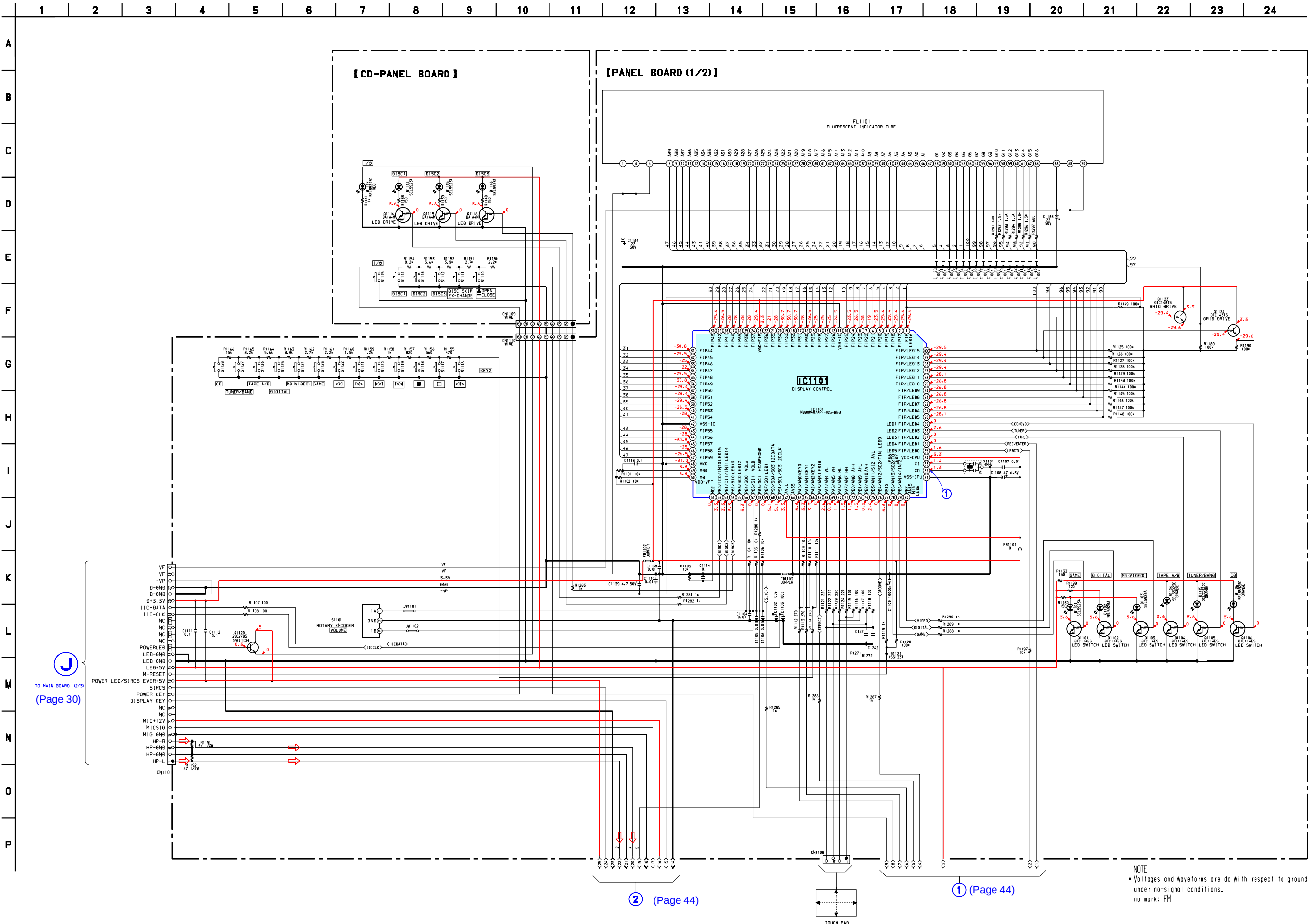
• Semiconductor Location

Ref. No.	Location
D1114	A-5
D1115	A-4
D1116	A-3
D1117	A-9
Q1114	A-8
Q1115	A-7
Q1116	A-7

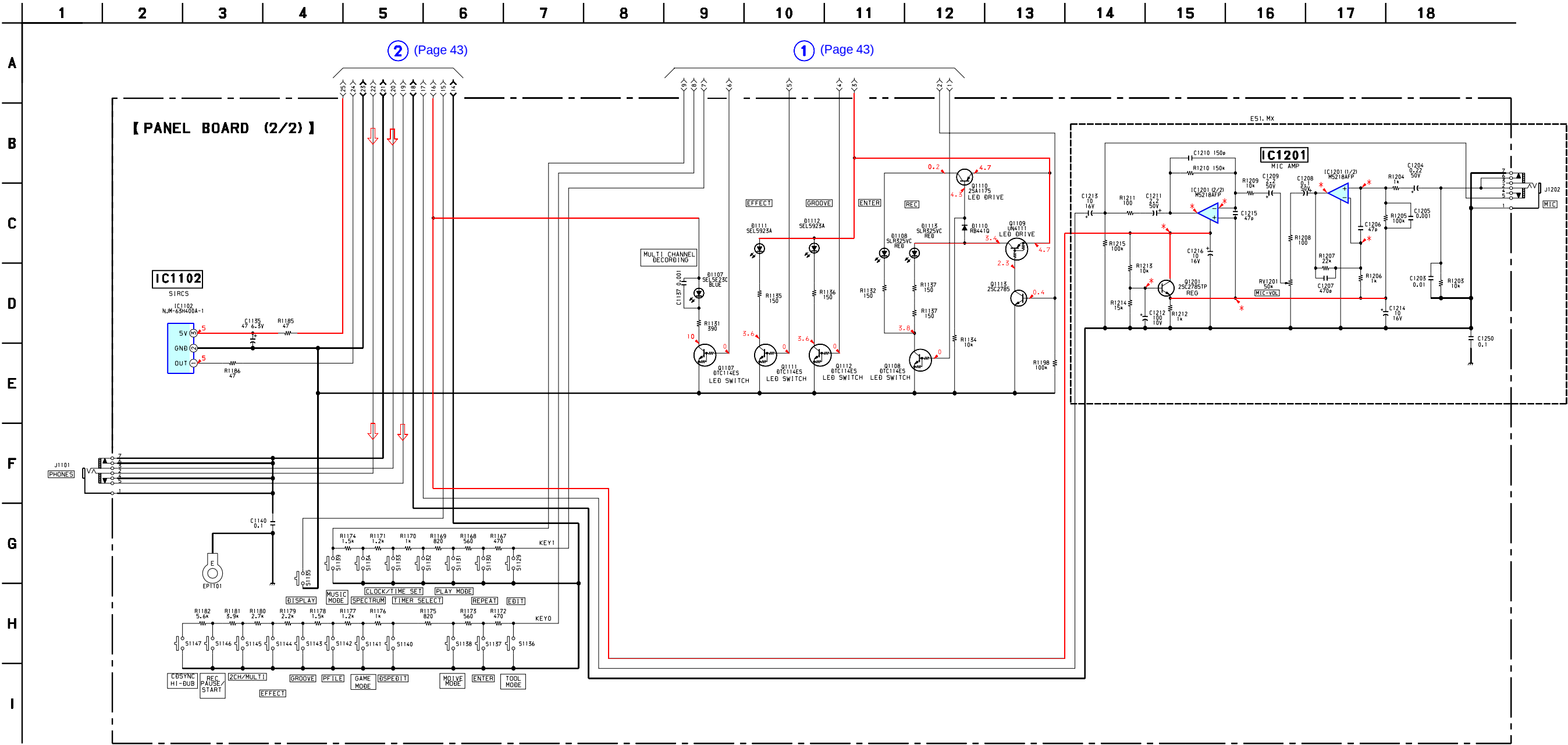
• Semiconductor Location

Ref. No.	Location
D1101	D-10
D1102	C-11
D1103	C-10
D1104	B-11
D1105	B-11
D1106	A-11
D1107	E-6
D1108	F-5
D1110	G-5
D1111	G-6
D1112	G-7
D1113	H-5
D1121	C-8
IC1101	B-7
IC1102	H-3
IC1201	G-11
Q1101	D-11
Q1102	C-11
Q1103	C-10
Q1104	B-11
Q1105	B-11
Q1106	A-11
Q1107	E-8
Q1108	E-5
Q1109	G-5
Q1110	G-5
Q1111	G-7
Q1112	G-8
Q1113	G-6
Q1120	D-3
Q1123	B-8
Q1124	A-6
Q1201	G-9

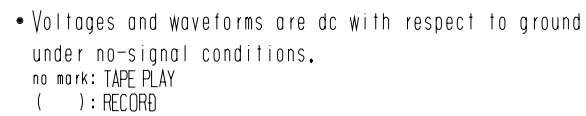
6-21. SCHEMATIC DIAGRAM – PANEL (1/2) SECTION – • See page 23 for Waveforms. • See page 55 for IC Pin Function.



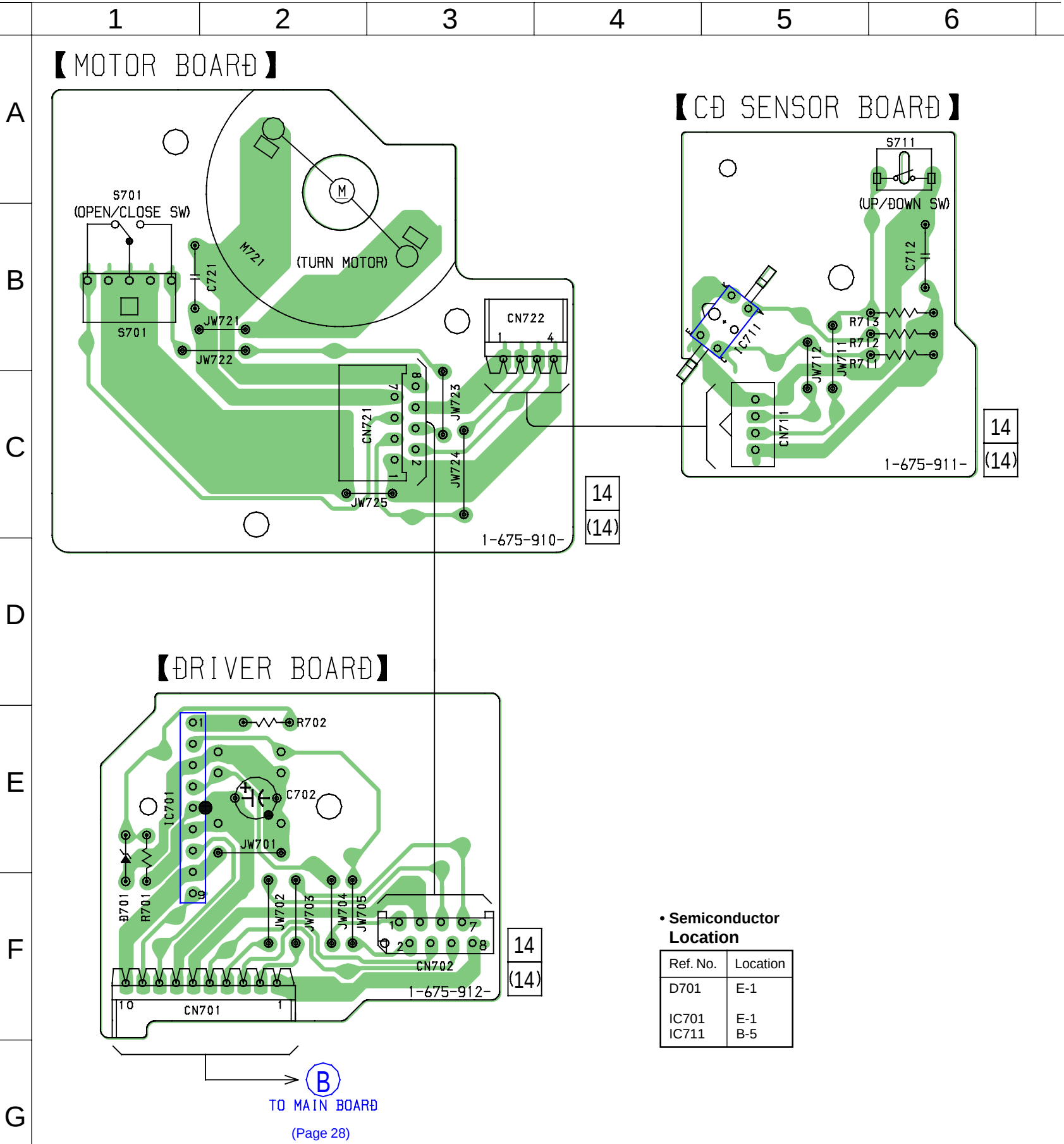
6-22. SCHEMATIC DIAGRAM – PANEL (2/2) SECTION –



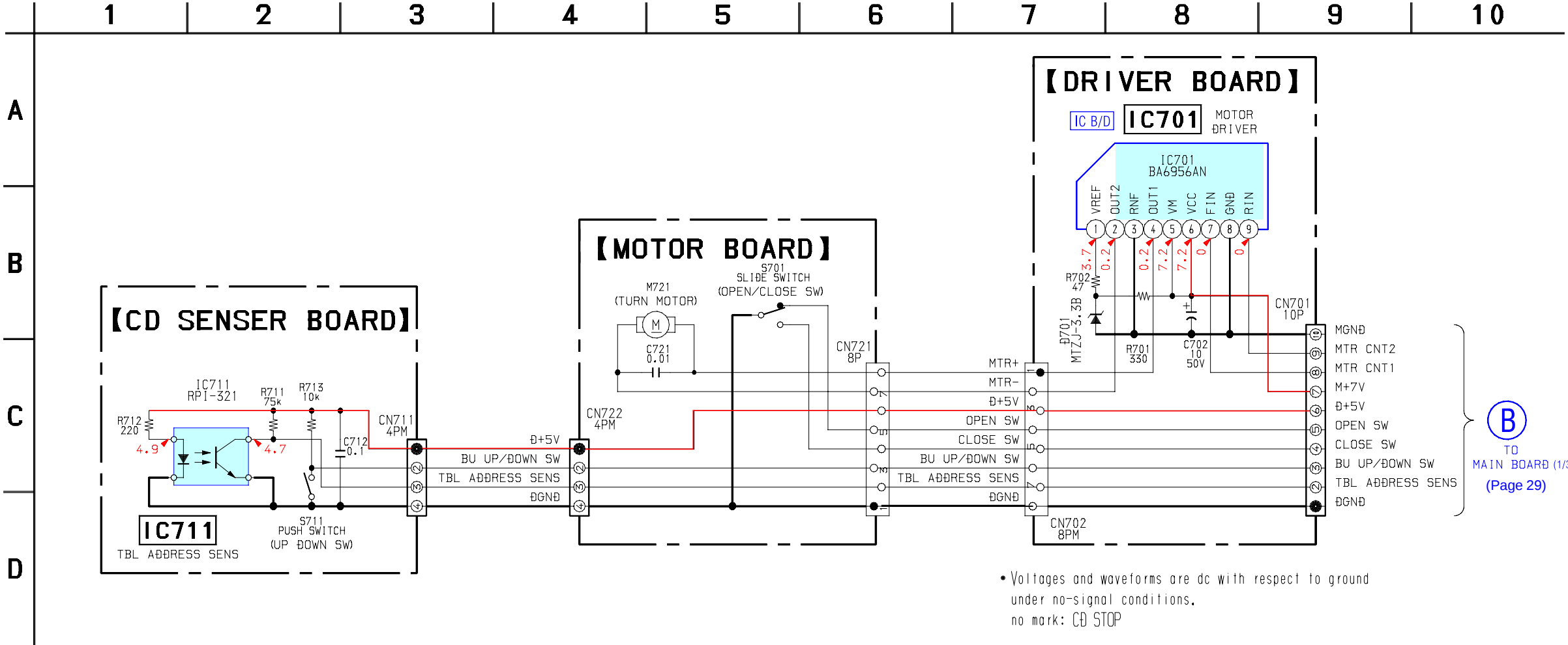
NOTE
• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark: FM
*: Can not be measured



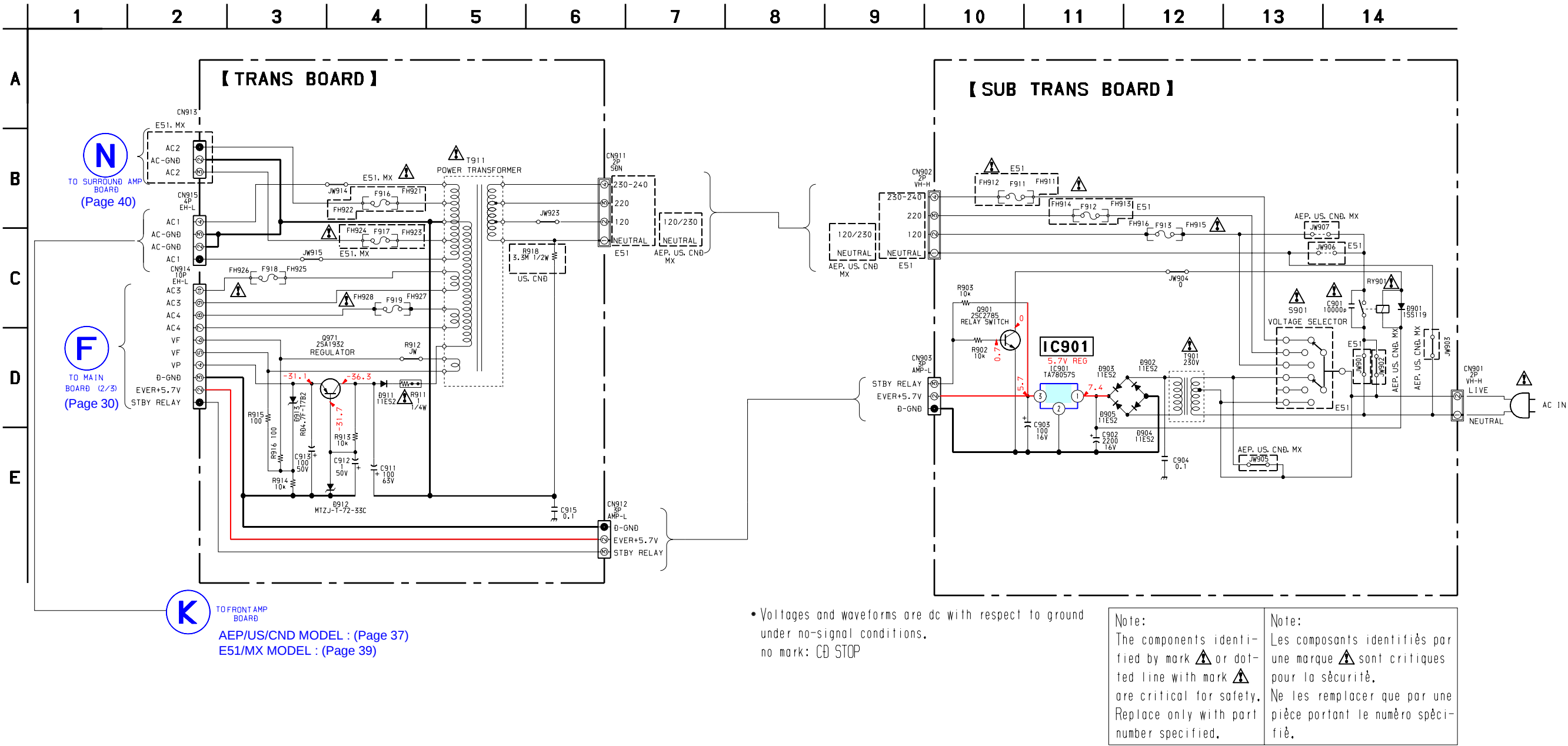
6-25. PRINTED WIRING BOARD – DRIVER SECTION – • See page 23 for Circuit Boards Location.



6-26. SCHEMATIC DIAGRAM – DRIVER SECTION – • See page 61 for IC Block Diagrams.



6-28. SCHEMATIC DIAGRAM – TRANS SECTION –



6-29. IC PIN FUNCTIONS

• IC101 DIGITAL SIGNAL PROCESSOR (CXD3017Q) (BD Board)

Pin No.	Pin Name	I/O	Function
1	SOSQ	O	Sub-Q serial output.
2	SQCK	I	Clock input for SQSO read-out
3	XRST	I	System reset.
4	SYSM	I	Muting input.
5	DATA	I	Serial date input, supplied from CPU.
6	XLAT	I	Latch input, supplied from CPU.
7	CLOK	I	Serial date transfer clock input, supplied from CPU.
8	SENS	O	SENS output.
9	SCLK	I	SENS serial data read-out clock.
10	VDD	—	Power supply.
11	ATSK	I/O	Input pin for anti-shock (Ground)
12	SPOA	I	Ground.
13	SPOB	I	Ground.
14	XLON	O	Not used.
15	WFON	O	Not used.
16	XUGF	O	Not used.
17	XPCK	O	Not used.
18	GFS	O	Not used.
19	2SPO	O	Not used.
20	SCOR	O	Sub-code sync output.
21	COUT	I/O	Not used.
22	MIRR	I/O	Not used.
23	DFCT	I/O	Not used.
24	FOK	I/O	Not used.
25	LOCK	I/O	Not used.
26	MDP	O	Output to control spindle motor servo.
27	SSTP	I	Input signal to detect disc inner most trak.
28	SFDR	O	Sled drive output.
29	SRDR	O	Sled drive output.
30	TFDR	O	Tracking drive output.
31	TRDR	O	Tracking drive output.
32	FFDR	O	Focus drive output.
33	FRDR	O	Focus drive output.
34	VSS	—	Ground.
35	TEST	I	TEST pin connected normally ground.
36	TES1	I	TEST pin connected normally ground.
37	XTSL	I	X'tal selection circuit input.
38	VC	I	Center voltage input.
39	FE	I	FOCUS error signal input.
40	SE	I	Sled error signal input.
41	TE	I	Tracking error signal input.
42	CE	I	Center servo analog input.
43	RFDC	I	RF signal input.
44	ADIO	O	Not used.
45	AVSS0	—	Analog ground.
46	IGEN	I	Power supply pin operational amplifiers.
47	AVDDO	—	Analog power supply.
48	ASYO	O	EFM full swing output.
49	ASYI	I	Asymmetry comparator voltage input.
50	BIAS	I	Asymmetry circuit constant current input.
51	RFAC	I	EFM signal input.
52	AVSS3	—	Analog ground.

Pin No.	Pin Name	I/O	Function
53	CLTV	I	Control voltage input for master VCO.
54	FILO	O	Filter output for master PLL.
55	FILI	I	Filter input for master PLL.
56	PCO	O	Chage-pump output for master PLL.
57	AVDD3	—	Analog powr supply.
58	VSS	—	Ground.
59	VDD	—	Power supply.
60	DOUT	O	Not used.
61	LRCK	O	Not used.
62	PCMD	O	Not used.
63	BCK	O	Not used.
64	EMPH	O	Not used.
65	XVDD	—	Master clock power supply.
66	XTAI	I	X'tal oscillator circuit input.
67	XTAO	O	X'tal oscillator circuit output.
68	XVSS	—	Master clock ground.
69	AVDD1	—	Analog power supply.
70	AOUT1	O	Lch : Analog output.
71	AIN1	I	Lch : OPAMP input.
72	LOUT1	O	Lch : LINE output
73	AVSS1	—	Analog ground.
74	AVSS2	—	Analog ground.
75	LOUT2	O	Rch : LINE output.
76	AIN2	I	Rch : OPAMP input.
77	AOUT2	O	Rch : Analog output.
78	AVDD2	—	Analog power supply.
79	RMUT	O	Not used.
80	LMUT	O	Not used.

• IC401 MASTER CONTROL (M30622MGA-A36FP) (MAIN Board (2/3))

Pin No.	Pin Name	I/O	Function
1	AMP-DATA	O	Amp data signal output
2	AMP-CLK	O	Amp clock signal output
3	AMP-LAT	O	Amp latch signal output
4	SIRCS	I	Remote commander signal input
5	DIG-Tx	O	Digital common Tx signal output
6	DSP-Rx	I	DSP Rx signal input
7	DIG-CLK	O	Digital common clock signal output
8	GND	—	Ground
9	GND	—	Ground
10	Xcin	I	Sub clock input (32.768kHz)
11	Xcout	O	Sub clock output (32.768kHz)
12	RESET	I	System reset signal input
13	Xout	O	Main system clock output (16MHz)
14	Vss	—	Ground
15	Xin	I	Main system clock input (16MHz)
16	Vcc	—	Power supply (EVER+5V)
17	NMI	I	Not used (PULL UP EVER +5V)
18	RDS-INT	I	RDS interrupt signal input
19	SCOR	I	CD Q-data request signal input
20	RDS-DATA	I	RDS data signal input
21	ST-MUTE	O	Tuner mute signal output
22	ST-CE	O	Tuner chip enable output
23	ST-DOUT	O	Tuner data output
24	BU PWM 3	O	BU PWM 3(RF dc) signal output
25	ST-DIN	I	Tuner data input
26	BU PWM 2	O	BU PWM 2(tracking error) signal output
27	ST-CLK	O	Tuner clock signal output
28	BU PWM 1	O	BU PWM 1(focus error) signal output
29	IIC_ CLK	O	IIC data bus reading clock (SCL signal)
30	IIC_ DATA	O	IIC data bus SDA signal
31	CANT USE	I	Not used
32	SQ-DATA-IN	I	CD data signal input
33	SQ-CLK	O	CD data clock signal output
34	SENS	I	BD Condition signal input (from CXD2587)
35	CD-DATA	O	CD data signal output
36	CAN:T USE	—	Not used
37	CD-CLK	O	CD clock signal output
38	CD-POWER	O	CD power on/off switch signal output
39	STB LED/CLK	O	Stanby led /clock signals check point
40	LD-ON	O	Laser diode on signal output
41	M-RESET	O	System reset signal output
42	XLT	O	CD latch signal output
43	XRST	O	CD reset signal output
44	LOAD-IN	O	CD loading motor control signal output
45	LOAD-OUT	O	CD loading motor control signal output
46	OPEN	I	Detection input from the tray open switch signal
47	CLOSE	I	Detection input from the tray close switch signal
48	UP/DWN SW	I	CD elevator up/down control signal input
49	T-SENS	I	Detection input from the table address detect sensor
50	A TRG	O	A deck trigger control signal output

HCD-DP700

Pin No.	Pin Name	I/O	Function
51	NO-USE	I	Not used
52	B TRG	O	B deck trigger control signal output
53	AMS-IN	I	AMS signal input
54	CAPM-H/L	O	Capstan moter highi/low speed control signal output
55	CAPM-CNT 1	O	Capstan moter REV/FWD/STOP control signal output
56	A PLAY	I	A deck play detect signal input
57	B PLAY	I	B deck play detect signal input
58	TC-MUTE	O	Tape deck line mute switch signal output. mute: "H"
59	R/PB/PAS	I	REC/PB/PASS select signal input
60	NR-ON/OFF	O	DOLBY NR on/off switch signal output
61	REC-MUTE	O	REC mute switch signal output (mute "L")
62	Vcc	—	Power supply(+5V)
63	SOFT-TEST	O	Soft out check point
64	Vss	—	Ground
65	BIAS	O	BIAS on/off switch signal output.
66	EQ-H/N	O	EQ high/low switch serect signal output
67	PB-A/B	O	A/B playback deck select signal output (deck A: "L", deck B "H")
68	ALC	O	ALC switch signal output (on: "L", off "H")
69	TC-RELAY	O	Tape deck relay switch signal output
70	A HALF	I	A deck half detect signal input
71	LINE-MUTE	O	Line mute signal output (on "H", off "L")
72	STK-POWER	O	Power amplifier on/off signal output (on "H", off "L")
73	DISPLAY KEY	I	Display key on/off switch signal input
74	POWER KEY	I	Power key on/off switch signal input
75	DIR-UNLOCK	I	Dir pll unlock signal input (analog: "H", CD/Din normal: "L")
76	DIR-CS	O	Dir cs signal output (normal "H")
77	DIR-XSTATE	I	Dir xstate signal input (normal "H")
78	DIR-Rx	I	Dir tx signal input
79	CODEC-SMUTE	O	Codec soft mute signal input (normal "L", mute "H")
80	DSP-ACK	I	DSP ACK signal input
81	DSP-CS	O	DSP CS signal input
82	DSP-DECODE	I	DSP DECODE signal input (AC-3 DTS decode "H")
83	STBY-RELAY	O	Main power on/off switch signal output
84	FRONT-RELAY	O	Front speaker relay switch signal output
85	REAR-RELAY	O	Not used (rear speaker relay)
86	PROTECT	I	Front speaker protect signal input (on "L")
87	STEREO	I	FM stereo detection signal input (stereo "L")
88	TUNED	I	Tuning detection signal input (tuned "L")
89	A SHUT	I	Shut off detection signal input (A deck reel pulse)
90	B SHUT	I	Shut off detection signal input (B deck reel pulse)
91	HALF/REC A/REC	I	Detection input from the B deck half signal input
92	MODEL-IN	I	Not used .Destination setting terminal
93	SPEC-IN	I	Destination settng terminal
94	FUN-CTRL	O	Fun on control signal output
95	V-MUTE	O	Not used
96	AVss	—	Ground
97	POWER	O	Standby LED on/off control signal output
98	VREF	I	Reference voltage(+5V)
99	AVcc	—	Power supply (+5V)
100	AC-CUT	I	AC cut on/off check signal input

• IC1101 DISPLAY CONTROL (MB90M407APF-G-105-BND) (PANEL Board (1/2))

Pin No.	Pin Name	I/O	Function
1 - 7	G7 - G1	O	Grid drive signal output to the fluorescent indicator
8 - 10	A1 - A3	O	Segment drive signal output the flourescent indicator tube
11	Vss IO	—	Ground
12 - 22	A4 - A14	O	Segment drive signal output the flourescent indicator tube
23	Vdd FIP	—	Power supply terminal (B+ VFT)
24 - 41	A15 - A32	O	Segment drive signal output the flourescent indicator tube
42	Vss IO	—	Ground
43 - 47	A33 - A37	O	Segment drive signal output the flourescent indicator tube
48	Vkk	—	Power supply terminal (B- for VFT)
49	MODE0	I	Chip Mode Select 0
50	MODE1	I	Chip Mode Select 1
51	MODE2	I	Chip Mode Select 2
52 - 54	DISC 1 - 3 LED	O	LED switch signal output
55	PLAY LED	O	Not used
56	VOLUME A	I	Jog dial pulse input from the rotary encoder(A phase input)
57	VOLUME B	I	Jog dial pulse input from the rotary encoder(B phase input)
58	HEADPHONE	I	HEAD PHONE check (“H” head phone)
59	MULTI CHANNEL LED	O	LED switch signal output
60	IIC data	O	IIC data bus SDA signal
61	IIC clk	O	IIC data bus reading clock (SCL signal)
62	Avcc	—	Power supply terminal (analog)
63	Avss	—	Ground (analog)
64 - 66	KEY0 - KEY2	I	KEY in terminal (A/D input)
67	ENTER LED	O	LED switch signal
68	YL	I/O	Tuoch pad control signal input/output
69	XL	I/O	Tuoch pad control signal input/output
70	XH	I/O	Tuoch pad control signal input/output
71	YH	I/O	Tuoch pad control signal input/output
72	AYH	I	Tuoch pad signal input(A/D input)
73	AXH	I	Tuoch pad signal input(A/D input)
74	AXL	I	Tuoch pad signal input(A/D input)
75	AYL	I	Tuoch pad signal input(A/D input)
76	SP FORM LED	O	LED switch signal output
77	Reset	I	System reset signal input (reset “L”)
78	LOCK LED	O	LED switch signal output
79	DSP LED	O	LED switch signal output
80	GROOVE LED	O	LED switch signal output
81	Vss CPU	—	Ground
82	Xin	I	Clock input (4MHz)
83	Xout	O	Clock output (4MHz)
84	Vcc for CPU	—	Power supply terminal
85	REC LED	O	LED switch signal output
86	GAME LED	O	LED switch signal output
87	DIGITAL LED	O	LED switch signal output
88	VIDEO LED	O	LED switch signal output
89	TAPE LED	O	LED switch signal output
90	TUNER LED	O	LED switch signal output
91	CD/DVD LED	O	LED switch signal output
92 - 100	G16 - G8	O	Grid drive signal output to the fluorescent indicator

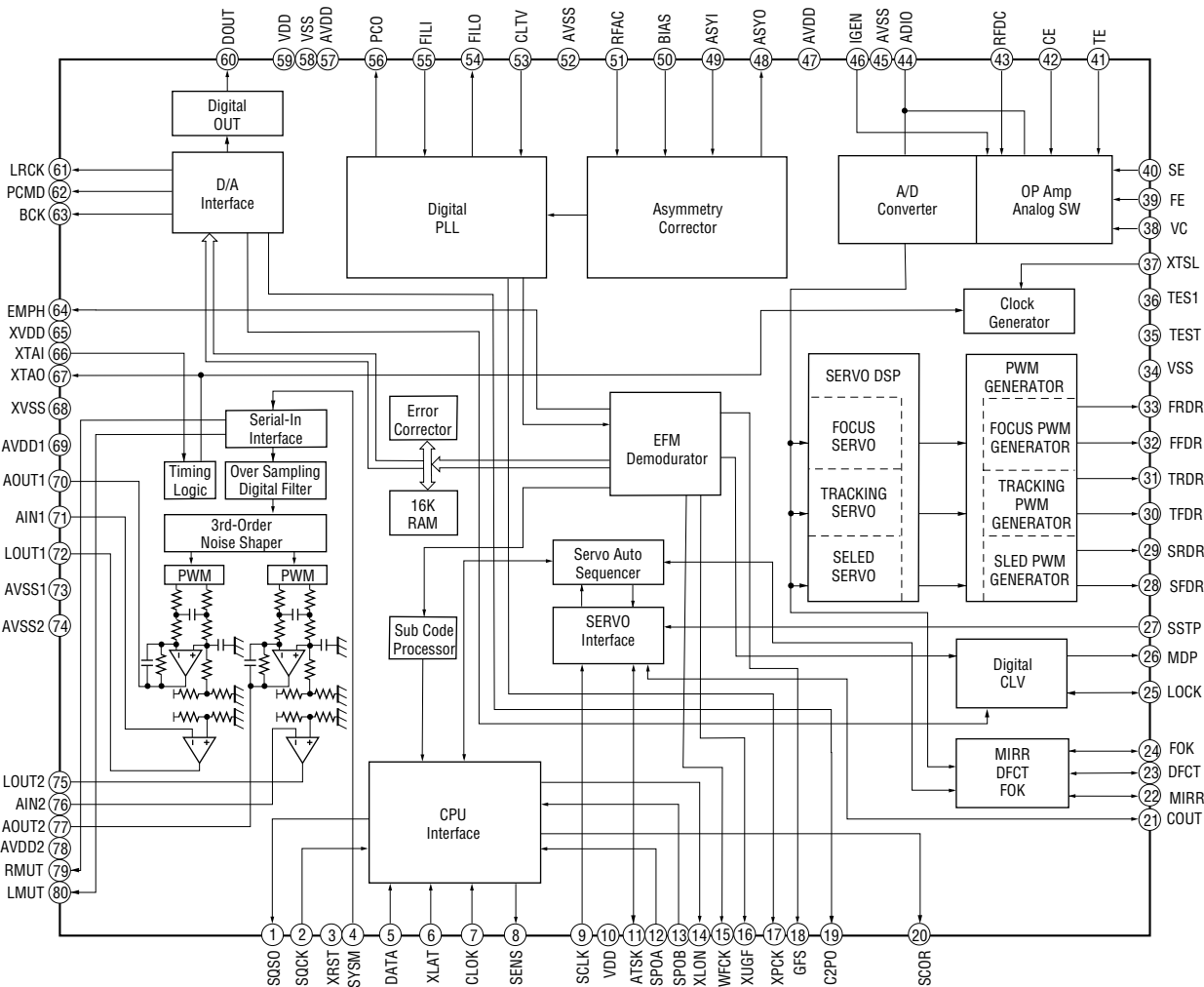
• IC601 DECODER (CXD9617R) (DSP Board (1/2))

Pin No.	Pin Name	I/O	Function
1	VSS	—	Ground
2	XRST	I	Reset signal input
3	EXTIN	I	GND
4	FS2	I	Sampling frequency switching signal input
5	VDDI	—	Power supply
6	FS1	I	Sampling frequency switching signal input
7	PLOCK	O	Internal PLL lock signal output
8	VSS	—	Ground
9	MCLK1	I	Clock signal input (135 MHz)
10	VDDI	I	Power supply
11	VSS	—	Ground
12	MCLK2	I/O	
13	MS	I	Switching of master/slave operation 0 : internal clock, 1 : EXTIN clock is used
14	SCKOUT	O	Internal system clock signal output
15	LRCKI1	I/O	Sampling clock input/output for audio IF serial data (Not used)
16	VDDE	—	Power supply
17	BCKI1	I/O	Bit clock input/output terminal for audio IF serial data (Not used)
18	SDI1	I	Audio IF data input
19	LRCKO	O	Sampling clock output for audio IF serial data
20	BCKO	O	Bit clock output terminal for audio IF serial data
21	VSS	—	Ground
22	KFSIO	I/O	Audio clock signal (364fs/256fs) input/output
23 - 26	SDO1 - SDO4	O	Audio IF serial data output
27	SPDIF	O	S/D IF output (Not used)
28	LRCKI2	I	Sampling clock input for audio IF serial data
29	BCKI2	I	Bit clock input terminal for audio IF serial data
30	SDI2	I	Audio IF data input
31	VSS	—	Ground
32	HACN	O	Acknowledge signal output for host IF
33	HDIN	I	Serial data input for host IF
34	HCLK	I	Clock input for host IF
35	HDOUT	O	Serial data output for host IF
36	HCS	I	Chip select input for host IF
37	SDCLK	O	SDRAM clock output (Not used)
38	CLKEN	O	SDRAM clock enable signal output (Not used)
39	RAS	O	Raw address strobe signal output (Not used)
40	VDDI	—	Power supply
41	VSS	—	Ground
42	CAS	O	Column address strobe output (Not used)
43	DQM/OE0	O	Data input/output mask signal output (Not used)
44	CS0	O	External memory chip select (SRAM)
45	WE0	O	SRAM write enable output
46	VDDE	—	Power supply
47	WMD1	I	External memory wait mode signal input
48	VSS	—	Ground
49	WIMD0	I	External memory wait mode signal input
50	PAGE2	O	External memory page switching signal output
51	VSS	—	Ground
52	PAGE1	O	External memory page switching signal output (Not used)
53	PAGE0	O	External memory page switching signal output
54	BOOT	I	Boot mode control signal input
55	BTACT	O	Boot mode state display signal output (Not used)
56	BST	I	Boot stop signal input
57	MOD1	I	Operation mode signal input (L : 386fs, H : 256fs)

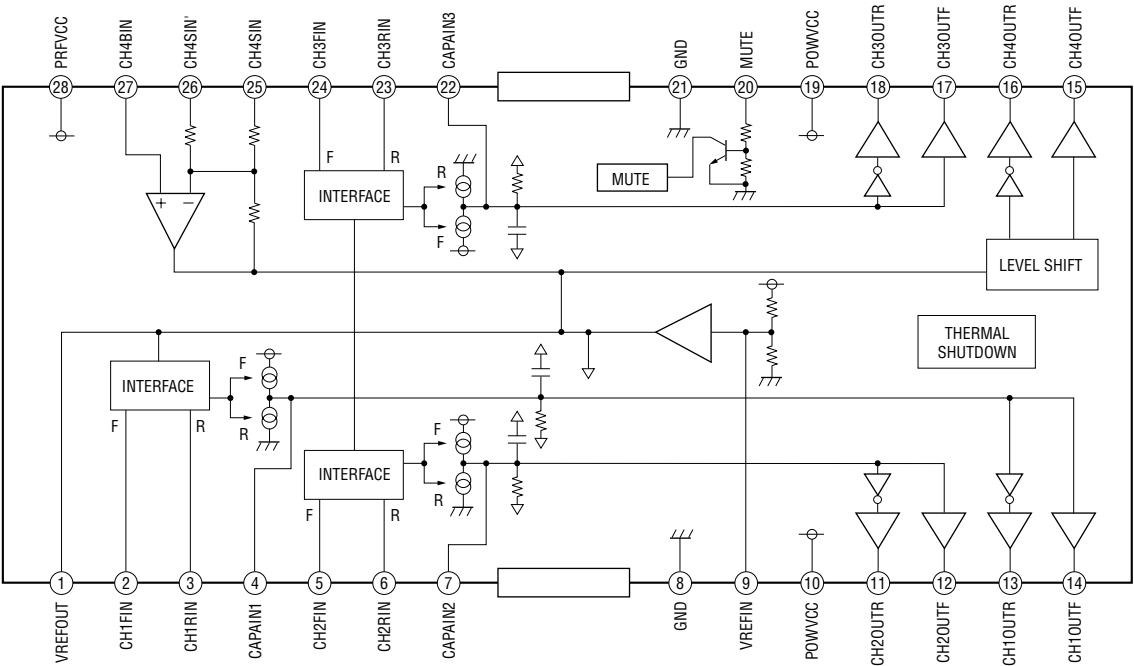
Pin No.	Pin Name	I/O	Function
58	MOD0	I	Operation mode signal input (L : single chip mode, H : use prohibited)
59	EXLOCK	I	Lock signal input
60	VDDI	—	Power supply
61	VSS	—	Ground
62 - 66	A17 - A13	O	External memory address output (SRAM)
67	GP10	I/O	LRCK0
68	GP9 (DECODE)	O	DECODE
69	GP8 (AUDIO)	I	AUDIO
70	VDDI	—	Power supply
71	VSS	—	Ground
72 - 75	D15/GP7 - D12/GP4	I/O	External memory data input /output (general port)
76	VDDE	—	Power supply
77 - 80	D11/GP3 - D8/GP0	I/O	External memory data input /output (general port)
81	VSS	—	Ground
82 - 85	A9 - A12	O	External memory address output (SRAM)
86	TDO	O	Simple emulation data output
87	TMS	I	Simple emulation data input start, end terminal
88	XTRST	I	Simple emulation async BREAK signal input terminal
89	TCK	I	Simple emulation clock signal input
90	TDI	I	Simple emulation data input
91	VSS	—	Ground
92 - 97	A8 - A3	O	External memory address output (SRAM)
98, 99	D7, D6	I/O	External memory data input/output (SRAM)
100	VDDI	—	Power supply
101	VSS	—	Ground
102 - 105	D5 - D2	I/O	External memory data input/output (SRAM)
106	VDDE	—	Power supply
107, 108	D1, D0	I/O	External memory data input/output (SRAM)
109, 110	A2, A1	O	External memory address output (SRAM)
111	VSS	—	Ground
112	A0	O	External memory address output (SRAM)
113	PM	I	PLL initialization input terminal
114, 115	SDI3, SDI4	I	Audio IF data input
116	SYNC	I	Sync/async selection input (L : sync, H : async)
117 - 119	VSS	—	Ground
120	VDDI	—	Power supply

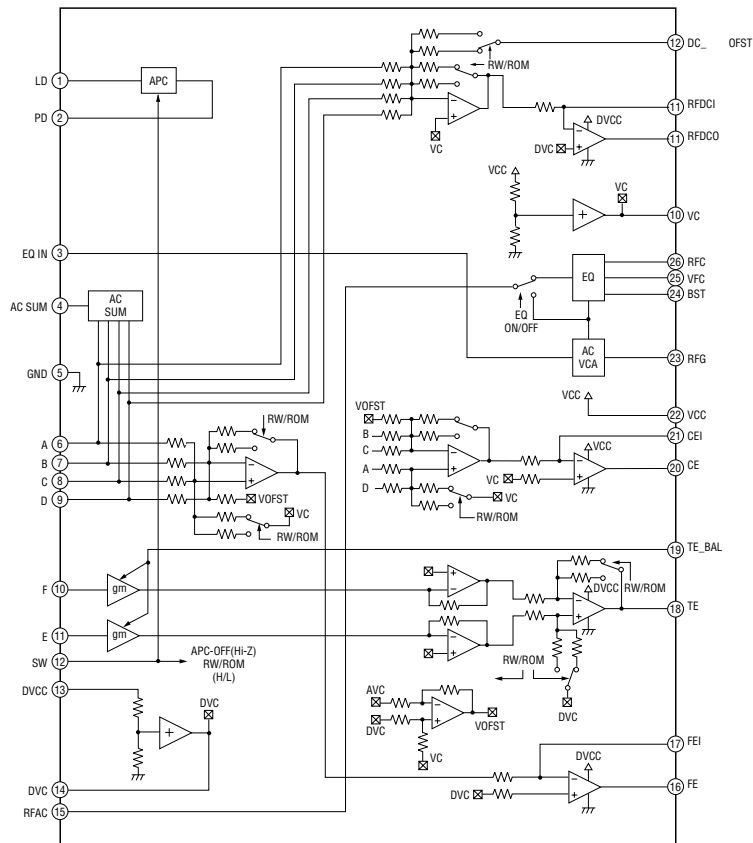
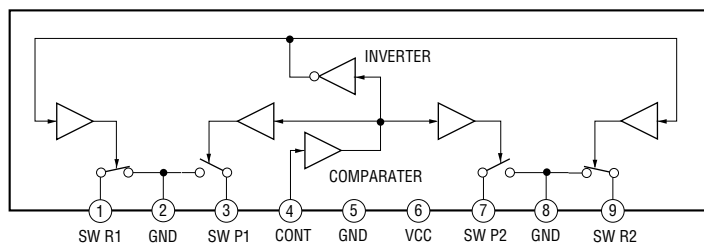
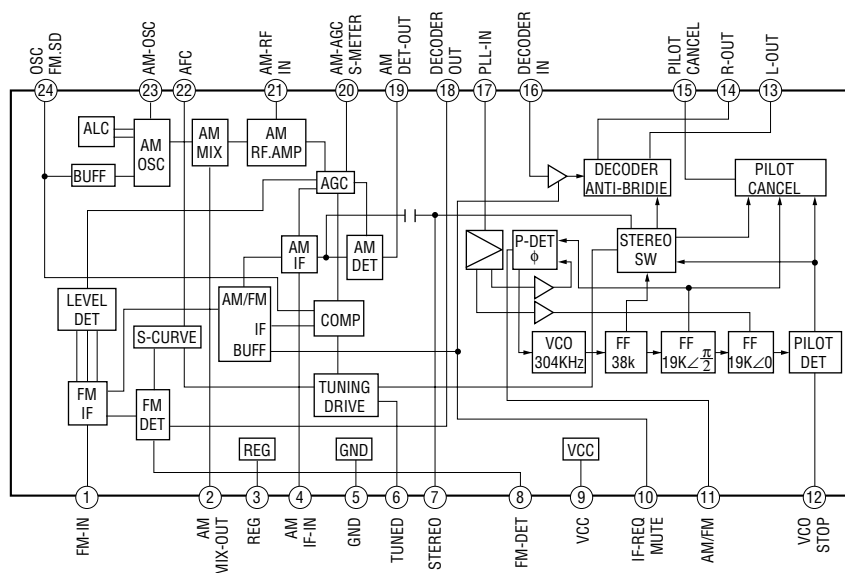
6-30. IC BLOCK DIAGRAMS

IC101 CXD3017Q (BD BOARD)

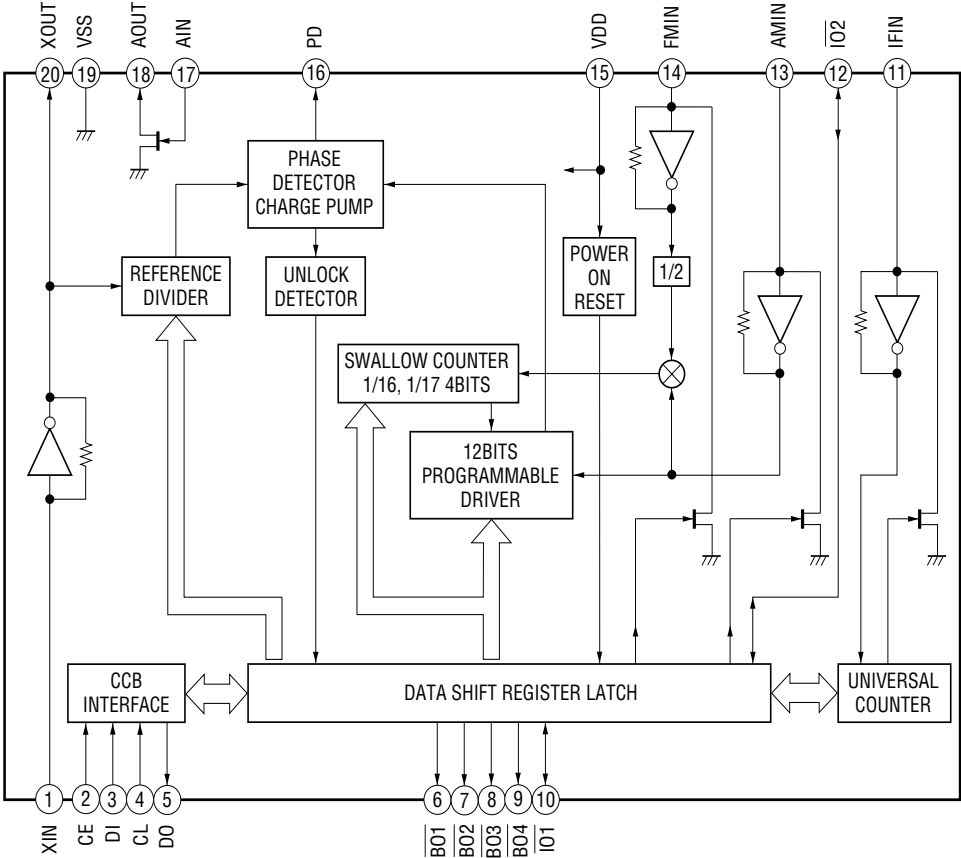


IC102 BA5974FM-E2 (BD BOARD)

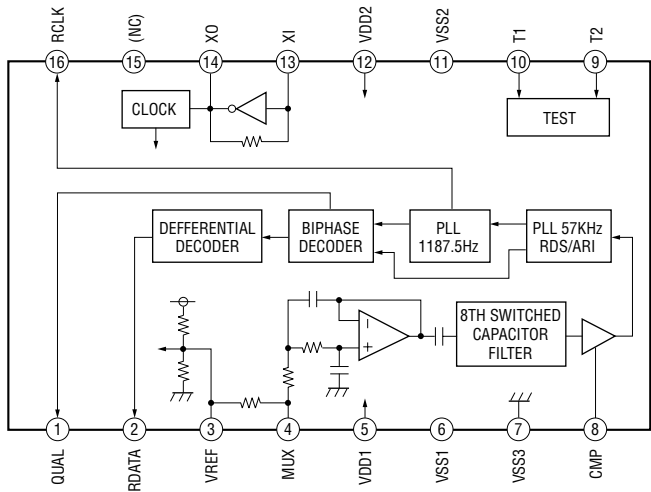


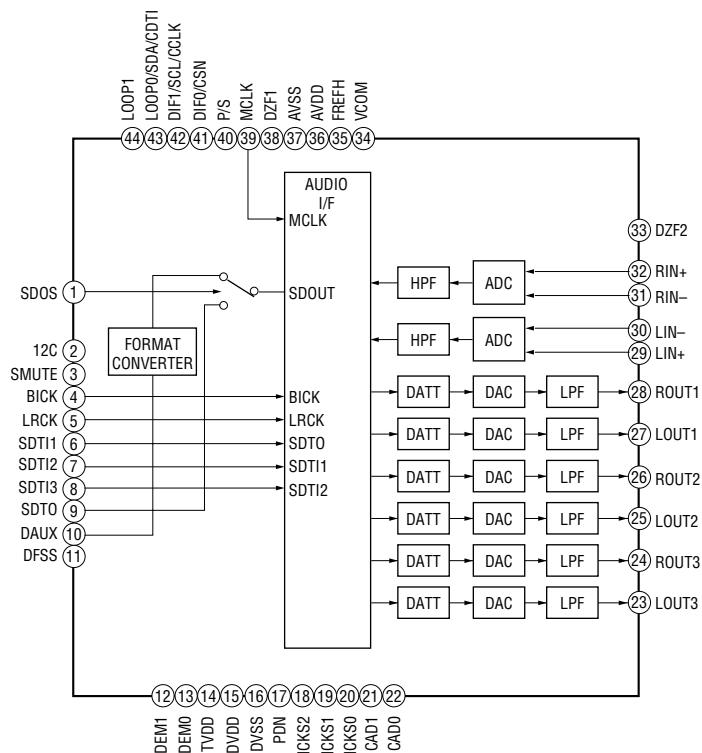
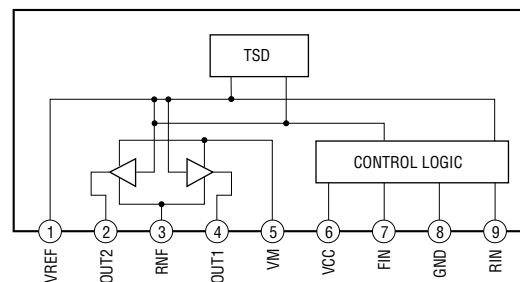
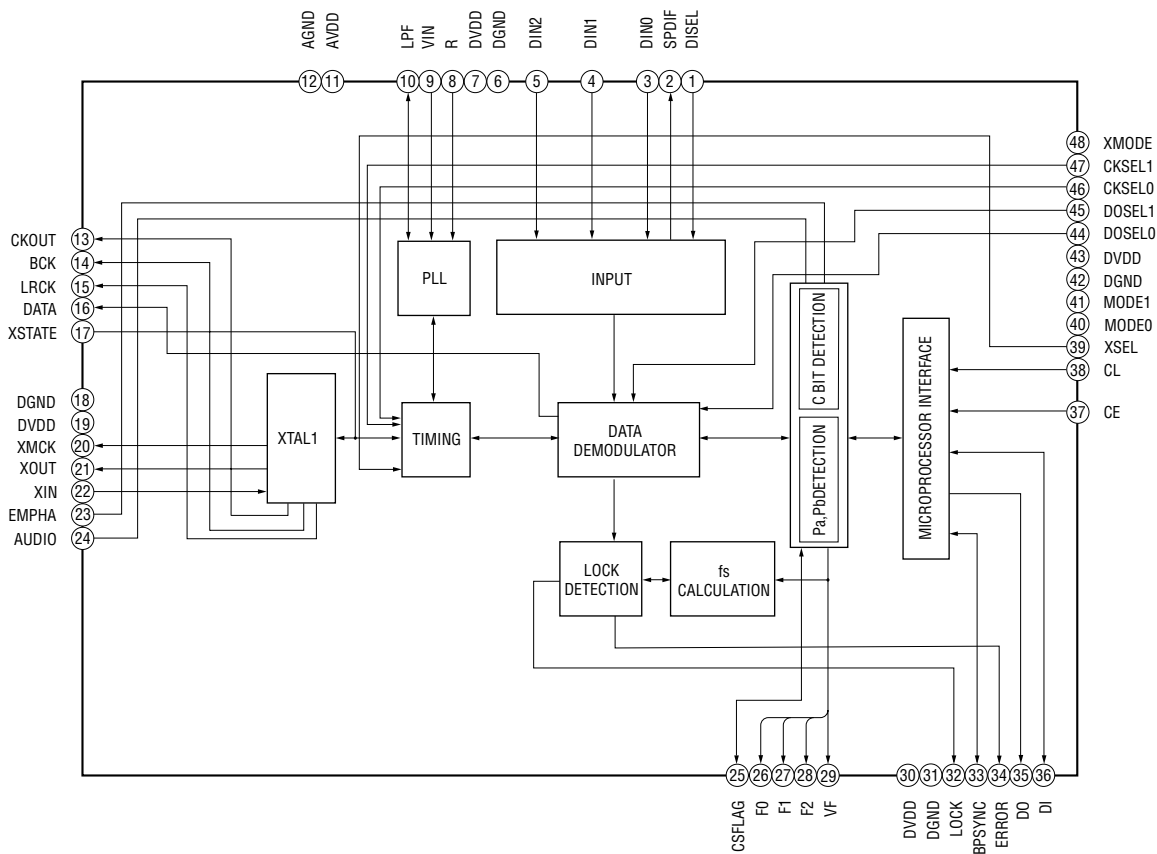
IC103 CXA2581N-T4 (BD BOARD)**IC302 μ PC1330H (MAIN BOARD (1/3))****IC11 LA1845 (MAIN BOARD (3/3))**

IC51 LC72131 (MAIN BOARD (3/3))



IC81 BU1924 (MAIN BOARD (3/3))



IC605 AK4527 (DSP BOARD (1/2))**IC701 BA6956AN (DRIVER BOARD)****IC604 LC89056W-E (DSP BOARD (2/2))**

SECTION 7
EXPLODED VIEWS

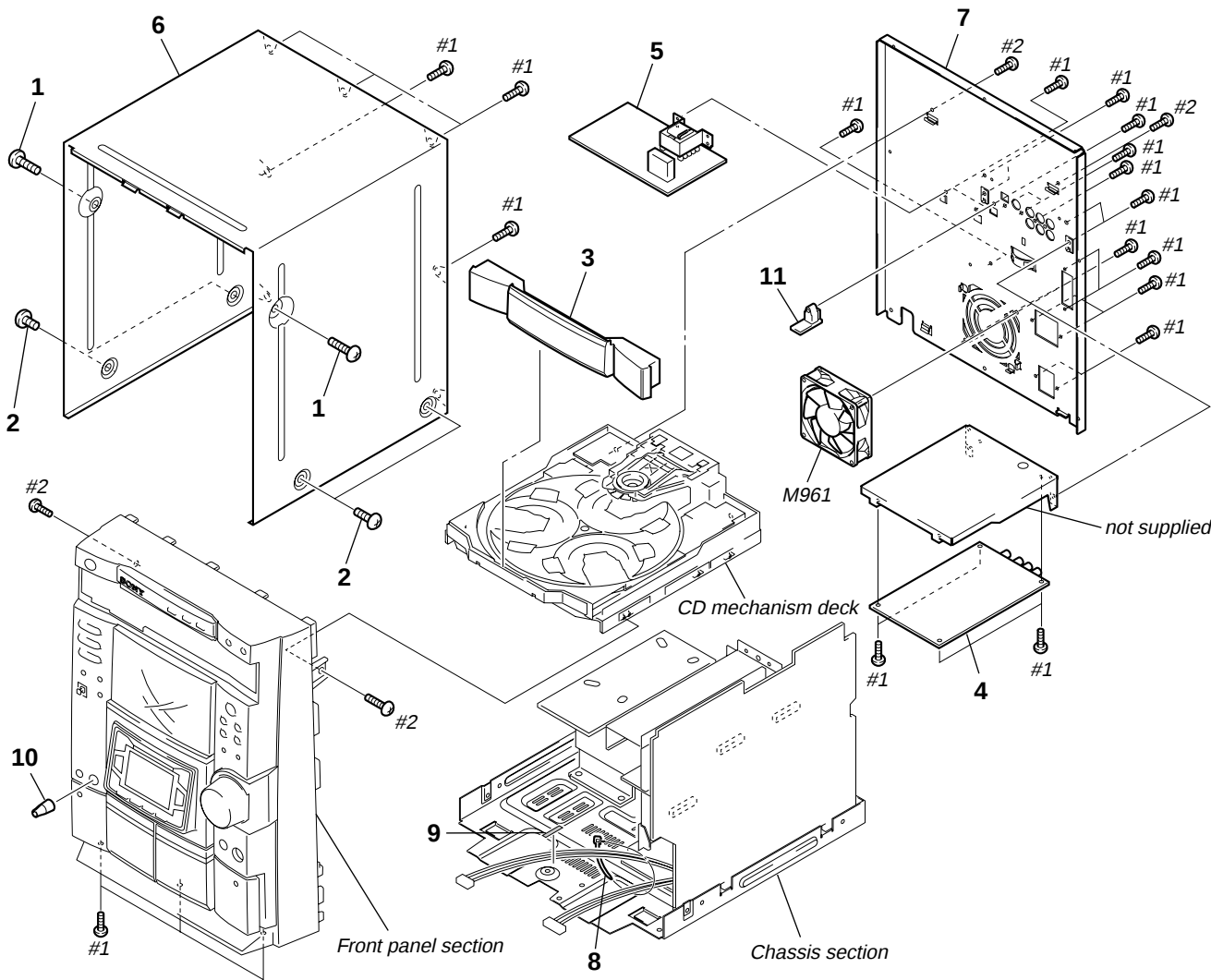
- NOTE:
- XX, -X mean standardized parts, so they may have some differences from the original one.
 - Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - The mechanical parts with no reference number in the exploded views are not supplied.

- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
CND : Canadian model
E51 : Chiri and Peru model
MX : Mexican model

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

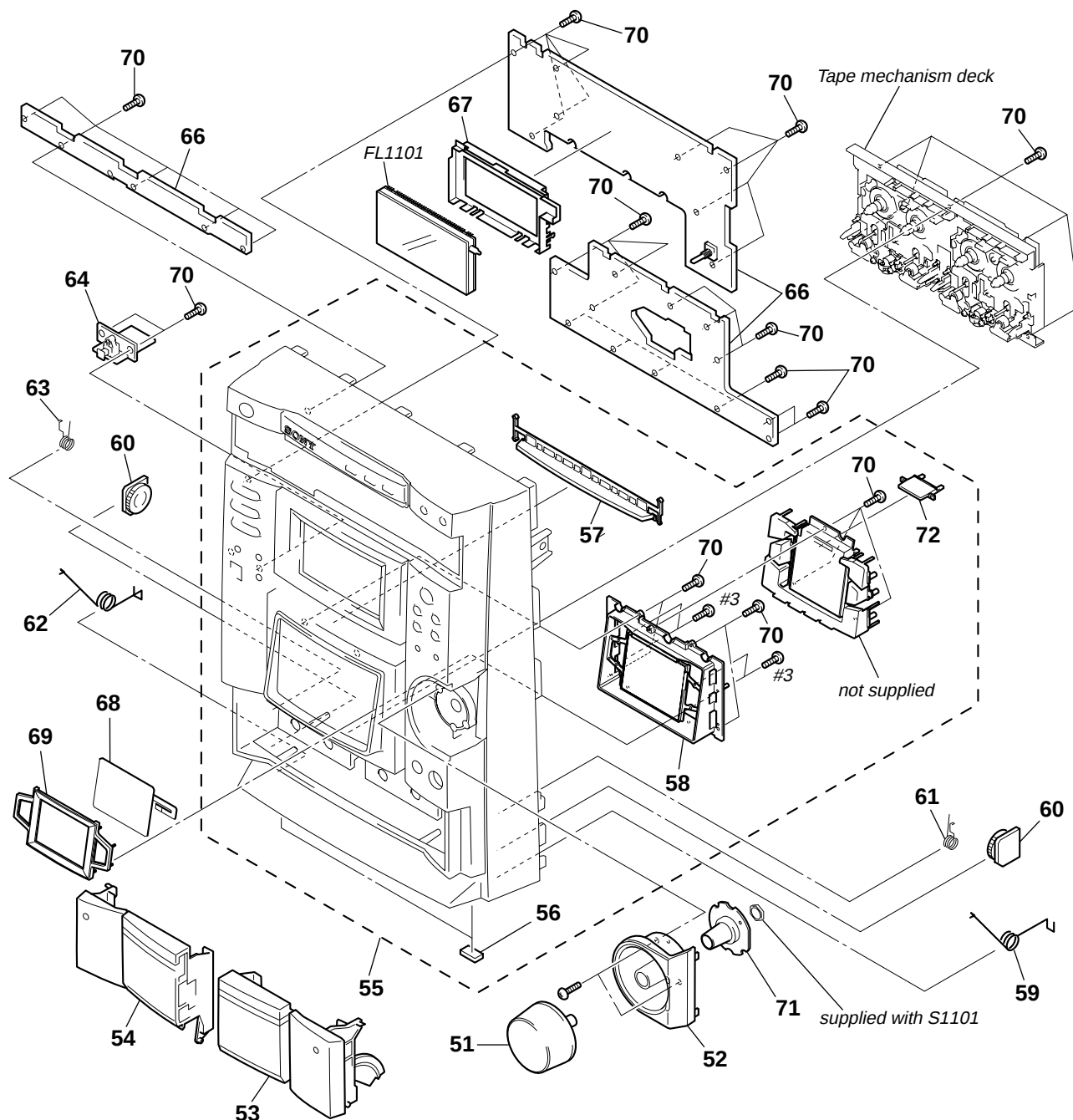
Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. MAIN SECTION



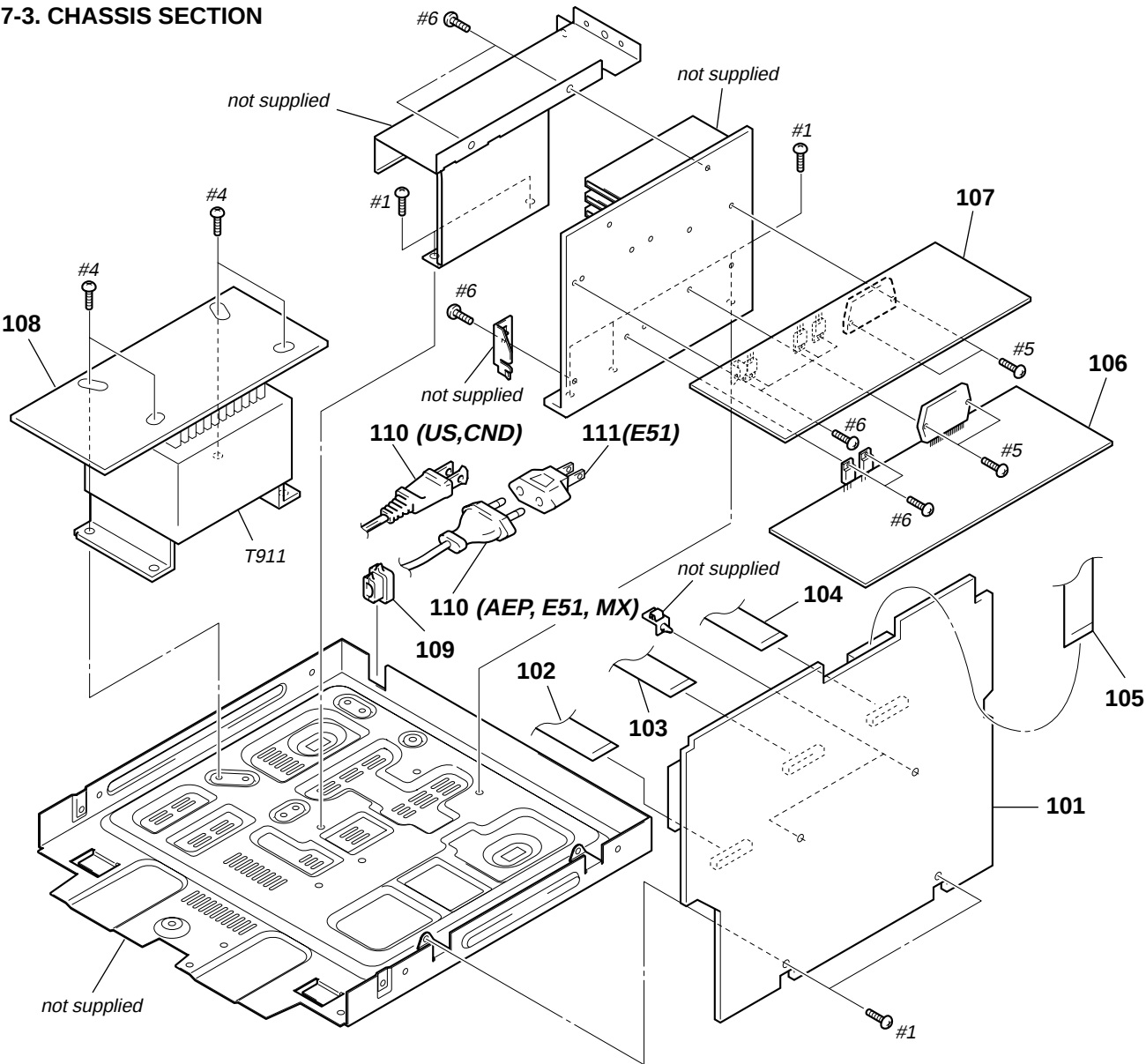
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	3-363-099-41	SCREW (CASE 3 TP2)		7	4-231-829-11	PANEL, BACK (CND)	
2	3-363-099-01	SCREW (CASE 3 TP2)		7	4-231-829-21	PANEL, BACK (AEP)	
3	4-231-795-01	PANEL, LOADING		7	4-231-829-51	PANEL, BACK (MX)	
4	A-4475-617-A	DSP BOARD, COMPLETE (US)		7	4-231-829-61	PANEL, BACK (E51)	
4	A-4475-667-A	DSP BOARD, COMPLETE (E51, MX)		8	3-701-748-00	CLAMP	
4	A-4475-681-A	DSP BOARD, COMPLETE (AEP)		* 9	3-378-109-01	CUSHION, SARANET	
4	A-4476-018-A	DSP BOARD, COMPLETE (CND)		10	4-231-805-02	KNOB (MIC) (E51, MX)	
5	1-680-190-11	SUB TRANS BOARD		11	1-680-851-11	OPT IN REAR BOARD (E51, MX)	
6	4-231-828-11	CASE		$\triangle$ M961	1-763-072-11	FAN. DC,	
7	4-231-829-01	PANEL, BACK (US)					

7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	4-231-804-01	KNOB (VOL)		63	4-231-836-01	SPRING (HEART CAM-A)	
52	4-231-803-01	RING (VOL)		64	1-680-279-11	OPT IN BOARD	
53	X-4953-340-1	LID (B) ASSY, CASSETTE		66	A-4475-614-A	PANEL BOARD, COMPLETE (including CD PANEL BOARD) (US)	
54	X-4953-339-1	LID (A) ASSY, CASSETTE		66	A-4475-664-A	PANEL BOARD, COMPLETE (including CD PANEL BOARD) (E51, MX)	
55	X-4953-337-1	PANEL ASSY, FRONT (US, CND)		66	A-4726-479-A	PANEL BOARD, COMPLETE (including CD PANEL BOARD) (AEP)	
55	X-4953-338-1	PANEL ASSY, FRONT (AEP)		66	A-4726-481-A	PANEL BOARD, COMPLETE (including CD PANEL BOARD) (CND)	
55	X-4953-342-1	PANEL ASSY, FRONT (E51, MX)		67	4-224-584-01	HOLDER FL	
56	4-225-252-01	CUSHION (FOOT)		68	1-796-001-11	TOUCH PAD	
57	4-231-810-01	BUTTON (EDIT) (AEP, CND, US)		69	4-231-815-01	HOLDER (PAD)	
57	4-231-810-11	BUTTON (EDIT) (E51, MX)		70	4-951-620-01	SCREW (2.6X8), +BVTP	
58	4-231-814-01	ESCUTCHEON (PAD) (AEP, CND, E51, MX)		71	4-234-763-01	COVER (VOL)	
58	4-231-814-11	ESCUTCHEON (PAD) (US)		72	4-231-818-01	INDICATOR (BLUE)	
59	4-231-838-01	SPRING (TC-B)		FL1101	1-518-722-11	INDICATOR TUBE, FLUORESCENT	
60	4-224-104-11	DAMPER		#3	7-685-105-19	TPG +P 2X8, TYPE2 N-S	
61	4-231-841-01	SPRING (HEART CAM-B)					
62	4-231-837-01	SPRING (TC-A)					

7-3. CHASSIS SECTION



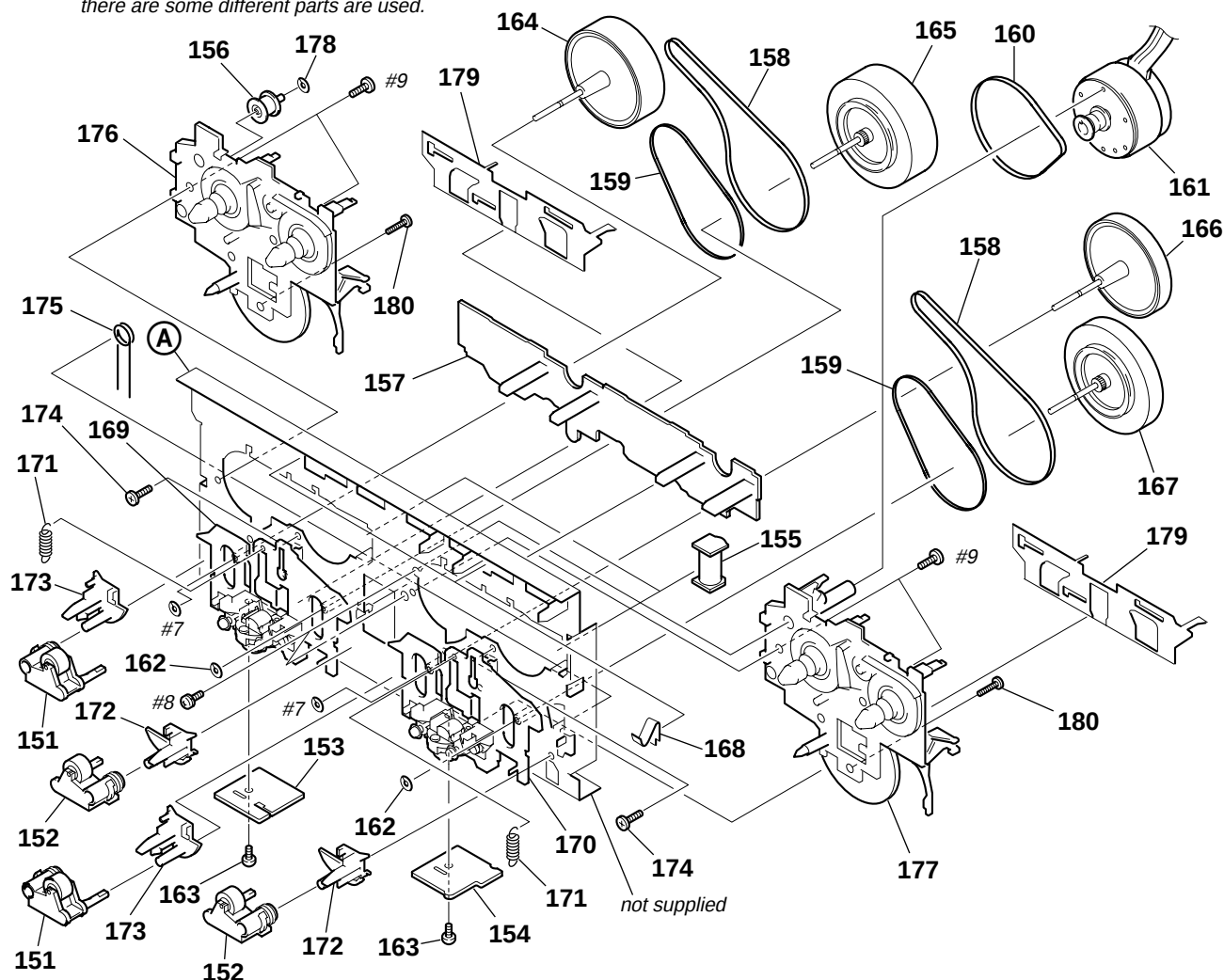
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
101	A-4475-627-A	MAIN BOARD, COMPLETE (US, CND)		107	1-680-188-11	SURROUND AMP BOARD	
101	A-4475-671-A	MAIN BOARD, COMPLETE (E51)		108	1-680-189-11	TRANS BOARD	
101	A-4475-685-A	MAIN BOARD, COMPLETE (AEP)		109	3-703-571-11	BUSHING (S) (4516), CORD (MX)	
101	A-4476-032-A	MAIN BOARD, COMPLETE (MX)					
102	1-773-042-11	WIRE (FLAT TYPE) (17 CORE)		* 109	3-703-244-00	BUSHING (2104), CORD (AEP, CND, E51, US)	
				Δ 110	1-777-071-81	CORD, POWER (AEP, E51)	
103	1-757-418-11	WIRE (FLAT TYPE) (21 CORE)		Δ 110	1-783-531-11	CORD, POWER (CND, US)	
104	1-757-420-11	WIRE (FLAT TYPE) (23 CORE)		Δ 110	1-791-901-11	CORD, POWER (MX)	
105	1-757-419-11	WIRE (FLAT TYPE) (21 CORE)		111	1-569-008-21	ADAPTOR, CONVERSION(E51)	
106	A-4475-634-A	FRONT AMP BOARD, COMPLETE (US)					
106	A-4475-675-A	FRONT AMP BOARD, COMPLETE (E51, MX)		Δ T911	1-435-811-11	TRANSFORMER, POWER (US)	
				Δ T911	1-435-812-11	TRANSFORMER, POWER (CND)	
106	A-4475-689-A	FRONT AMP BOARD, COMPLETE (AEP)		Δ T911	1-435-813-11	TRANSFORMER, POWER (AEP)	
106	A-4476-020-A	FRONT AMP BOARD, COMPLETE (CND)		Δ T911	1-435-814-11	TRANSFORMER, POWER (E51, MX)	

7-4. TAPE MECHANISM DECK SECTION-1 (TCM-230MWR41)

- The thing that a part (A) curves is TCM-230MWR41.

Note: Two different types of tape mechanism are used depending on models.
They maintain compatibility as an entire mechanism even though
there are some different parts are used.

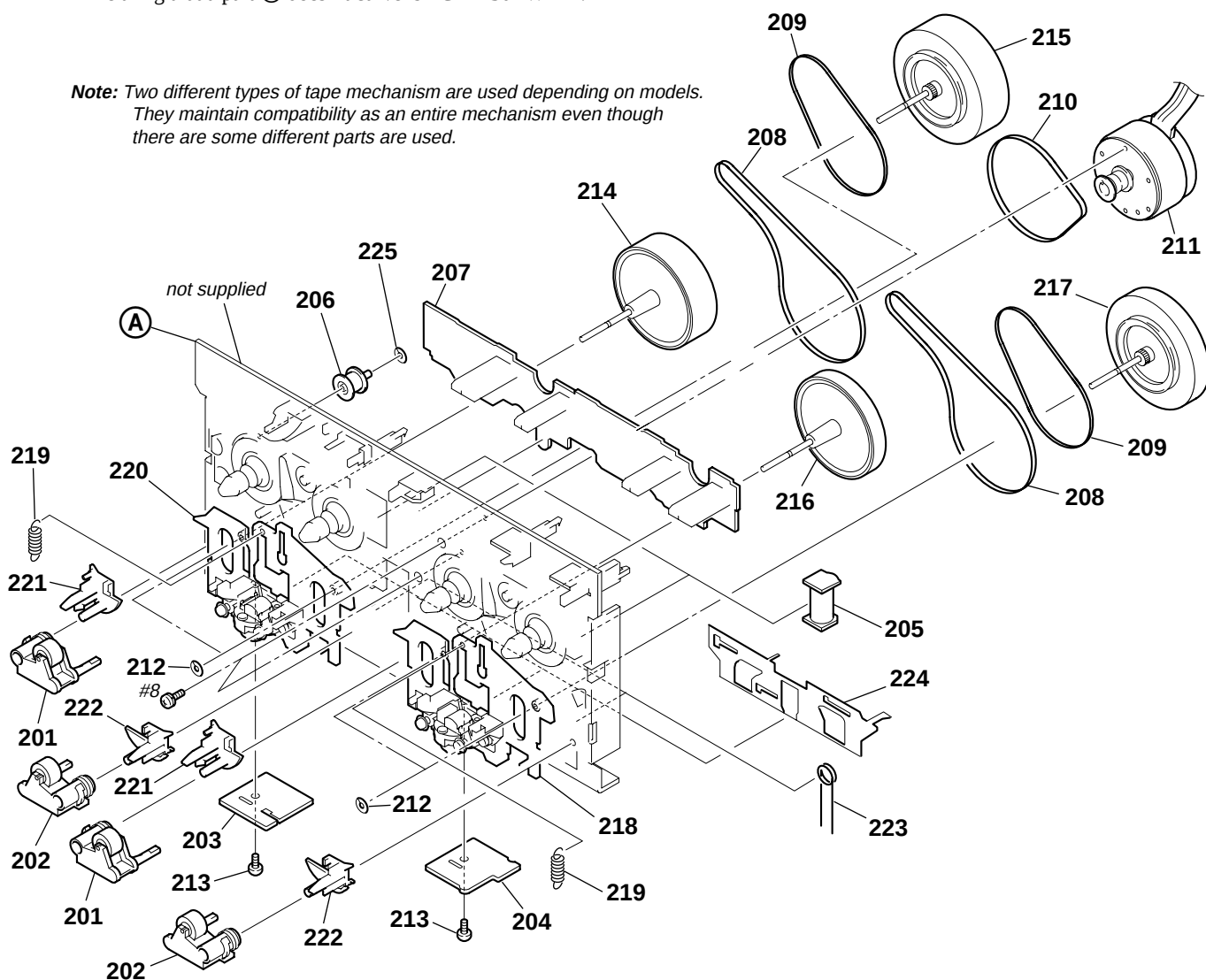


Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
151	X-3374-156-1	PINCH LEVER (REV) ASSY		166	X-3378-043-1	FLYWHEEL (B-REV) ASSY	
152	X-3374-155-1	PINCH LEVER (FWD) ASSY		167	X-3378-042-1	FLYWHEEL (B-FWD) ASSY	
153	1-676-220-11	HEAD (A) BOARD		168	4-229-083-01	SPRING (CASSETTE), LEAF	
154	1-676-221-11	HEAD (B) BOARD		169	A-2004-771-A	BASE (A) ASSY, HEAD	
155	1-454-887-32	SOLENOID, PLUNGER		170	A-2004-772-A	BASE (B) ASSY, HEAD	
156	3-040-580-11	PULLEY (TENSION)		171	3-016-574-11	SPRING (HEAD), TENSION	
157	A-2007-838-A	LEAF SW BOARD		172	3-016-564-01	BASE (PINCH LEVER FWD)	
158	3-041-946-01	BELT (CAPSTAN B)		173	3-016-565-01	BASE (PINCH LEVER REV)	
159	3-041-947-01	BELT (FR)		174	3-703-454-21	SCREW (1.7X6), TAPPING	
160	4-227-239-01	BELT (CAPSTAN C)		175	4-228-449-01	SPRING (REVERSE SLIDER)	
161	X-3378-241-1	MOTOR ASSY		176	A-2004-793-A	CHASSIS (A) ASSY, SUB	
162	3-019-208-01	WASHER, STOPPER		177	A-2004-794-A	CHASSIS (B) ASSY, SUB	
163	4-227-872-11	SCREW (+PTT 2X4), GROUND POINT		178	3-016-533-01	WASHER (FR), STOPPER	
164	X-3378-041-1	FLYWHEEL (A-REV) ASSY		179	3-016-566-01	SLIDER, REVERSE	
165	X-3378-040-1	FLYWHEEL (A-FWD) ASSY		180	3-041-499-01	SCREW (CAM) STEP	

7-5. TAPE MECHANISM DECK SECTION-2 (TCM-230AWR41)

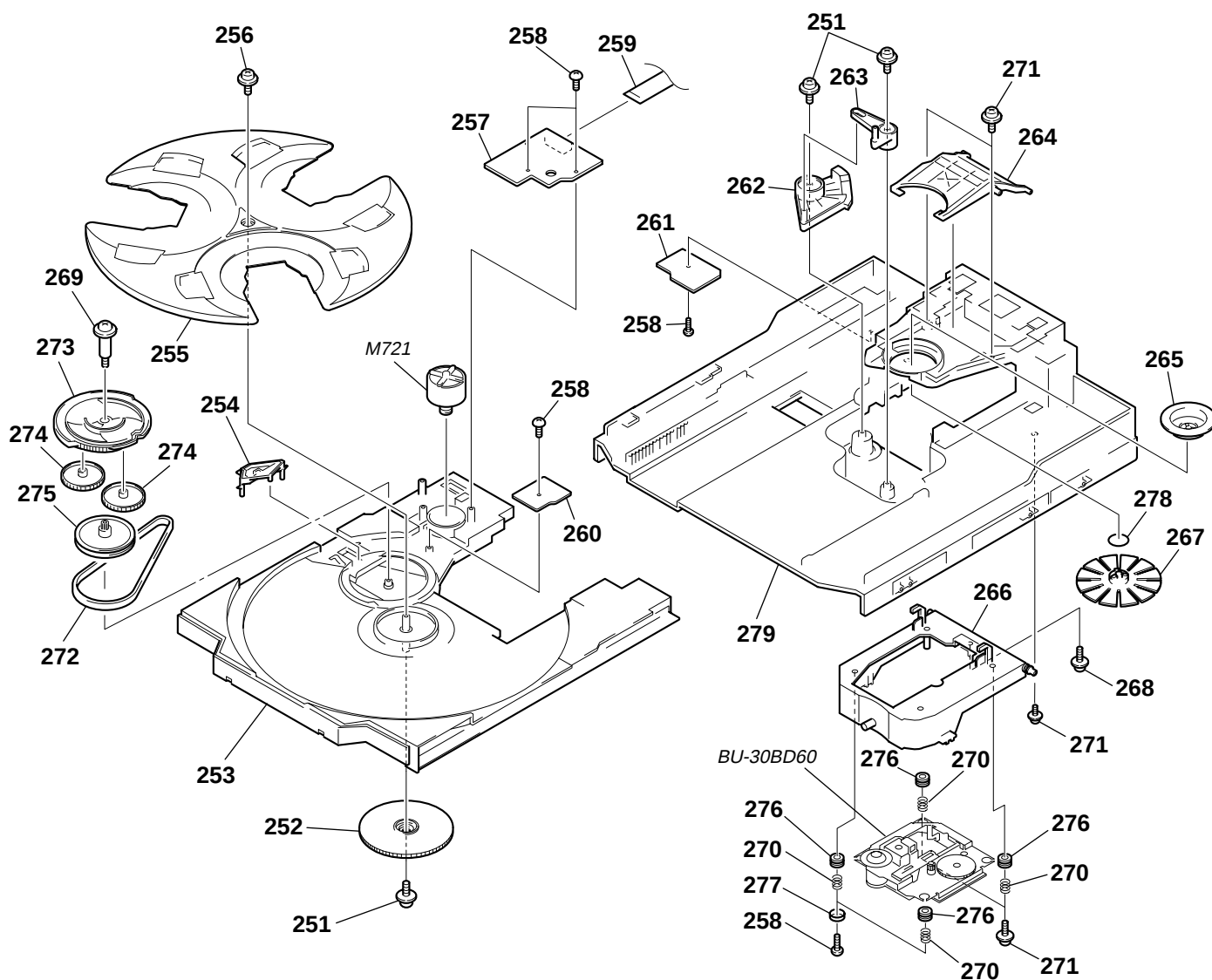
- The thing that a part (A) doesn't curve is TCM-230AWR41.

Note: Two different types of tape mechanism are used depending on models.
They maintain compatibility as an entire mechanism even though
there are some different parts are used.



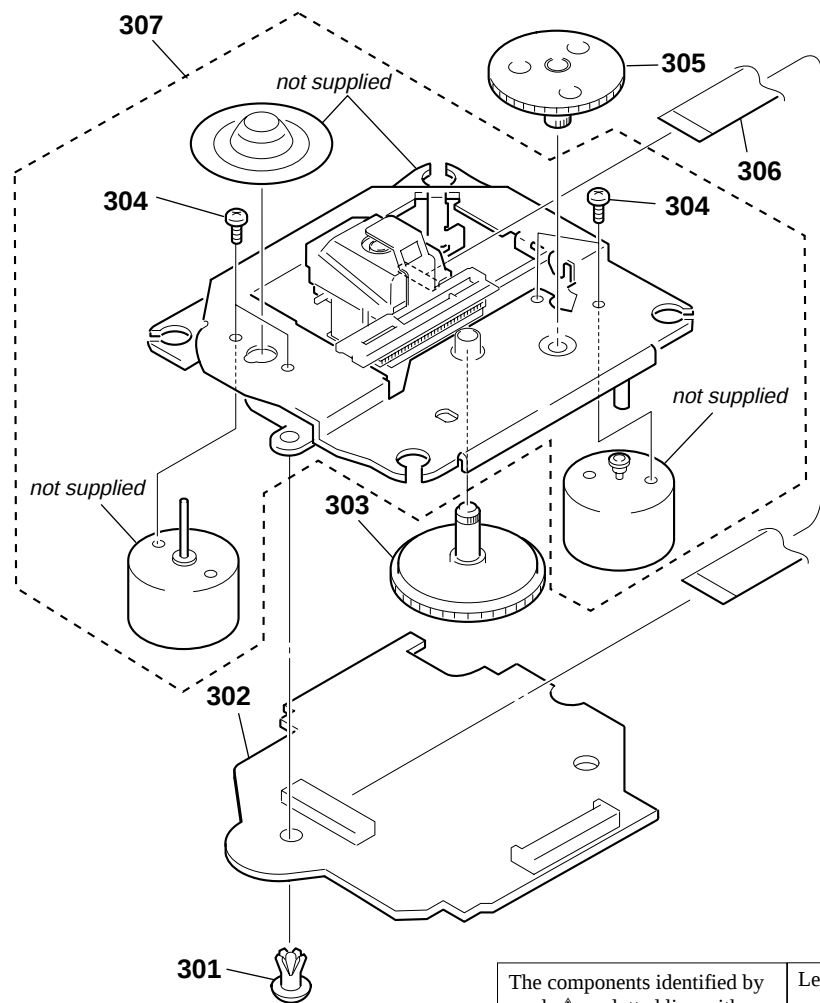
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
201	X-3374-156-4	PINCH LEVER (REV) ASSY		214	X-3378-041-1	FLYWHEEL (A-REV) ASSY	
202	X-3374-155-4	PINCH LEVER (FWD) ASSY		215	X-3378-040-1	FLYWHEEL (A-FWD) ASSY	
203	1-676-220-11	HEAD (A) BOARD		216	X-3378-043-1	FLYWHEEL (B-REV) ASSY	
204	1-676-221-11	HEAD (B) BOARD		217	X-3378-042-1	FLYWHEEL (B-FWD) ASSY	
205	1-454-887-32	SOLENOID, PLUNGER		218	A-2004-755-A	BASE (B) ASSY, HEAD	
206	3-040-580-11	PULLEY (TENSION)		219	3-016-574-11	SPRING (HEAD), TENSION	
207	A-2007-838-A	SW BOARD		220	A-2004-754-A	BASE (A) ASSY, HEAD	
208	3-041-946-01	BELT (CAPSTAN B)		221	3-016-565-01	BASE(PINCH LEVER REV)	
209	3-041-947-01	BELT (FR)		222	3-016-564-01	BASE(PINCH LEVER FWD)	
210	4-227-239-01	BELT (CAPSTAN C)		223	4-228-449-01	SPRING (REVER SW SLIDER)	
211	X-3378-241-1	MOTOR ASSY		224	3-016-566-01	SLIDER, REVERSE	
212	3-019-208-01	WASHER, STOPPER		225	3-016-533-01	WASHER (FR), STOPPER	
213	4-227-872-11	SCREW (+PTT 2X4), GROUND POINT					

7-6. CD MECHANISM DECK SECTION (CDM58E-30BD60)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
251	4-933-134-11	SCREW (+PTPWH M2.6X8)		266	X-4953-306-1	HOLDER (BU) (BU-30) ASSY	
252	4-221-679-01	CAM (RELAY)		267	X-4953-307-1	PULLEY (A) ASSY, CHUCKING	
253	4-231-452-01	TABLE (NEW)		268	4-227-899-01	SCREW (DIA. 12), FLOATING	
254	4-221-686-01	LEVER (CHANGE)		269	4-222-097-01	SCREW, STEP	
255	4-221-676-02	TRAY		270	4-227-045-11	SPRING (INSULATOR), COIL	
256	4-933-134-51	SCREW (+PTPWH 2.6X8)		271	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
257	1-675-910-14	MOTOR BOARD		272	4-222-095-01	BELT	
258	4-951-620-01	SCREW (2.6X8), +BVTP		273	4-221-678-06	CAM (CONTROL)	
259	1-791-983-12	WIRE (FLAT TYPE) (8 CORE)		274	4-221-683-01	GEAR (U)	
260	1-675-911-14	SENSOR BOARD		275	4-221-685-01	PULLEY (S)	
261	1-675-912-14	DRIVE BOARD		276	4-231-451-01	INSULATOR (BU-30)	
262	X-4952-608-3	CAM (U/D) ASSY		277	4-231-151-01	STOPPER (BU)	
263	4-221-681-01	LEVER (EX)		278	4-228-414-01	BRACKET (YOKE)	
264	4-221-682-01	LEVER (LIFTER)		279	4-221-674-04	CHASSIS	
265	4-231-513-01	PULLEY (B) (BU-30), CHUCKING		M721	A-4672-826-A	MOTOR ASSY	

7-7. BASE UNIT SECTION (BU-30BD60)



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.
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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	3-531-576-11	RIVET		306	1-757-710-11	WIRE (FLAT TYPE) (16 CORE)	
302	A-4725-531-A	BD BOARD, COMPLETE		$\triangle$ 307	A-4735-188-A	BU-30 (60) ASSY	
303	4-233-832-01	GEAR (LB)					
304	7-627-853-28	SCREW, PRECISION +P 2X3 TYPE3					
305	4-233-831-01	GEAR (LA)					

SECTION 8

ELECTRICAL PARTS LIST

BD

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, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
uF: μ F
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- COILS
uH: μ H
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA..., μ PA...,
uPB..., μ PB..., uPC..., μ PC...,
uPD..., μ PD...
- Abbreviation
CND : Canadian model
MX : Mexican model
E51 : Chiri and Peru 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 name.

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
	A-4725-531-A	BD BOARD, COMPLETE *****		C193	1-104-665-11	ELECT 100uF 20%	10V
		< CAPACITOR >		C194	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C101	1-162-967-11	CERAMIC CHIP 0.0033uF 10%	50V	C195	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C102	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V				
C103	1-162-962-11	CERAMIC CHIP 470PF 10%	50V	C196	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C104	1-162-962-11	CERAMIC CHIP 470PF 10%	50V	C197	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C108	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C198	1-124-584-00	ELECT 100uF 20%	10V
						< CONNECTOR >	
C109	1-162-965-11	CERAMIC CHIP 0.0015uF 10%	50V	CN101	1-568-864-11	CONNECTOR, FFC 21P	
C110	1-162-967-11	CERAMIC CHIP 0.0033uF 10%	50V	CN102	1-793-907-11	CONNECTOR, FFC/FPC 16P	
C111	1-162-927-11	CERAMIC CHIP 100PF 5%	50V			< DIODE >	
C112	1-125-837-91	CERAMIC CHIP 1uF 10%	6.3V				
C114	1-164-360-11	CERAMIC CHIP 0.1uF	16V	D101	8-719-422-12	DIODE MA8039	
						< FERRITE BEAD >	
C116	1-104-665-11	ELECT 100uF 20%	10V	FB101	1-500-445-21	FERRITE 0UH	
C117	1-104-665-11	ELECT 100uF 20%	10V	FB102	1-500-445-21	FERRITE 0UH	
C118	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V			< IC >	
C121	1-164-360-11	CERAMIC CHIP 0.1uF	16V	IC101	8-752-402-31	IC CXD3017Q	
C122	1-124-584-00	ELECT 100uF 20%	10V	IC102	8-759-827-41	IC BA5974FM-E2	
				IC103	8-752-089-74	IC CXA2581N-T4	
C123	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V			< JUMPER RESISTOR >	
C124	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V	JR101	1-216-864-11	METAL CHIP 0 5% 1/16W	
C125	1-164-360-11	CERAMIC CHIP 0.1uF	16V	JR102	1-216-864-11	METAL CHIP 0 5% 1/16W	
C126	1-164-360-11	CERAMIC CHIP 0.1uF	16V	JR103	1-216-864-11	METAL CHIP 0 5% 1/16W	
C127	1-124-584-00	ELECT 100uF 20%	10V	JR104	1-216-864-11	METAL CHIP 0 5% 1/16W	
				JR105	1-216-864-11	METAL CHIP 0 5% 1/16W	
C129	1-162-974-11	CERAMIC CHIP 0.01uF	50V	JR106	1-216-864-11	METAL CHIP 0 5% 1/16W	
C130	1-164-360-11	CERAMIC CHIP 0.1uF	16V	JR122	1-216-296-11	SHORT 0	
C131	1-104-665-11	ELECT 100uF 20%	10V	JR123	1-216-296-11	SHORT 0	
C133	1-162-921-11	CERAMIC CHIP 33PF 5%	50V	JR124	1-216-296-11	SHORT 0	
C143	1-164-360-11	CERAMIC CHIP 0.1uF	16V	JR125	1-216-296-11	SHORT 0	
						< COIL >	
C145	1-164-360-11	CERAMIC CHIP 0.1uF	16V	L101	1-469-553-21	INDUCTOR 4.7uH	
C153	1-164-360-11	CERAMIC CHIP 0.1uF	16V			< TRANSISTOR >	
C159	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	Q101	8-729-049-31	TRANSISTOR 2SB710A-RTX	
C162	1-104-665-11	ELECT 100uF 20%	10V	Q102	8-729-920-85	TRANSISTOR 2SD1664-QR	
C165	1-164-360-11	CERAMIC CHIP 0.1uF	16V			< RESISTOR >	
				R101	1-216-821-11	METAL CHIP 1K 5% 1/16W	
C167	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	R102	1-216-845-11	METAL CHIP 100K 5% 1/16W	
C168	1-162-921-11	CERAMIC CHIP 33PF 5%	50V				
C171	1-115-412-11	CERAMIC CHIP 680PF 5%	25V				
C172	1-162-927-11	CERAMIC CHIP 100PF 5%	50V				
C181	1-115-412-11	CERAMIC CHIP 680PF 5%	25V				
C182	1-162-927-11	CERAMIC CHIP 100PF 5%	50V				
C183	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V				
C184	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V				
C185	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V				
C190	1-115-156-11	CERAMIC CHIP 1uF	10V				
C191	1-124-584-00	ELECT 100uF 20%	10V				
C192	1-164-360-11	CERAMIC CHIP 0.1uF	16V				

Ref. No.	Part No.	Description			Remarks
R103	1-216-835-11	METAL CHIP	15K	5%	1/16W
R104	1-216-839-11	METAL CHIP	33K	5%	1/16W
R105	1-216-821-11	METAL CHIP	1K	5%	1/16W
R106	1-216-821-11	METAL CHIP	1K	5%	1/16W
R107	1-216-833-11	METAL CHIP	10K	5%	1/16W
R108	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R109	1-216-857-11	METAL CHIP	1M	5%	1/16W
R111	1-216-846-11	METAL CHIP	120K	5%	1/16W
R114	1-218-745-11	RES-CHIP	160K	5%	1/16W
R116	1-216-001-00	METAL CHIP	10	5%	1/10W
R117	1-216-821-11	METAL CHIP	1K	5%	1/16W
R118	1-216-809-11	METAL CHIP	100	5%	1/16W
R119	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
R120	1-216-835-11	METAL CHIP	15K	5%	1/16W
R122	1-216-845-11	METAL CHIP	100K	5%	1/16W
R123	1-216-833-11	METAL CHIP	10K	5%	1/16W
R124	1-216-845-11	METAL CHIP	100K	5%	1/16W
R131	1-216-813-11	METAL CHIP	220	5%	1/16W
R143	1-216-839-11	METAL CHIP	33K	5%	1/16W
R144	1-216-839-11	METAL CHIP	33K	5%	1/16W
R147	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
R148	1-216-797-11	METAL CHIP	10	5%	1/16W
R149	1-216-797-11	METAL CHIP	10	5%	1/16W
R158	1-216-838-11	METAL CHIP	27K	5%	1/16W
R159	1-216-838-11	METAL CHIP	27K	5%	1/16W
R162	1-216-845-11	METAL CHIP	100K	5%	1/16W
R171	1-216-837-11	METAL CHIP	22K	5%	1/16W
R172	1-216-837-11	METAL CHIP	22K	5%	1/16W
R173	1-216-837-11	METAL CHIP	22K	5%	1/16W
R181	1-216-837-11	METAL CHIP	22K	5%	1/16W
R182	1-216-837-11	METAL CHIP	22K	5%	1/16W
R183	1-216-837-11	METAL CHIP	22K	5%	1/16W
R190	1-216-813-11	METAL CHIP	220	5%	1/16W
R191	1-216-839-11	METAL CHIP	33K	5%	1/16W
R192	1-216-839-11	METAL CHIP	33K	5%	1/16W
R193	1-216-846-11	METAL CHIP	120K	5%	1/16W
R194	1-216-845-11	METAL CHIP	100K	5%	1/16W
R195	1-216-853-11	METAL CHIP	470K	5%	1/16W
R196	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R198	1-216-864-11	METAL CHIP	0	5%	1/16W
< NETWORK >					
RN101	1-233-576-11	RES, CHIP NETWORK 100			
< VARIABLE RESISTOR >					
RV101	1-238-602-11	RES, ADJ, CARBON 47K (RF BALANCE)			
< VIBRATOR >					
X101	1-579-280-11	VIBRATOR, CRYSTAL (16.9344MHz)			

CD-PANEL BOARD (included in PANEL BOALD)					

< DIODE >					
D1114	8-719-057-97	DIODE	SEL5923A-TP15		
D1115	8-719-057-97	DIODE	SEL5923A-TP15		
D1116	8-719-057-97	DIODE	SEL5923A-TP15		
D1117	8-719-071-44	DIODE	SELS5223C-TP15		

Ref. No.	Part No.	Description	Remarks			
< TRANSISTOR >						
Q1114	8-729-900-80	TRANSISTOR	DTC114ES			
Q1115	8-729-900-80	TRANSISTOR	DTC114ES			
Q1116	8-729-900-80	TRANSISTOR	DTC114ES			
< RESISTOR >						
R1138	1-249-407-11	CARBON	150	5%	1/4W	F
R1139	1-249-407-11	CARBON	150	5%	1/4W	F
R1140	1-249-407-11	CARBON	150	5%	1/4W	F
R1141	1-249-417-11	CARBON	1K	5%	1/4W	F
R1150	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R1151	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R1152	1-249-424-11	CARBON	3.9K	5%	1/4W	F
R1153	1-249-426-11	CARBON	5.6K	5%	1/4W	
< SWITCH >						
S1110	1-762-875-21	SWITCH, KEYBOARD (▲ OPEN/CLOSE)				
S1111	1-762-875-21	SWITCH, KEYBOARD (DISC EX-CHANGE)				
S1112	1-762-875-21	SWITCH, KEYBOARD (DISC 3)				
S1113	1-762-875-21	SWITCH, KEYBOARD (DISC 2)				
S1114	1-762-875-21	SWITCH, KEYBOARD (DISC 1)				
S1115	1-762-875-21	SWITCH, KEYBOARD (I/⏻)				

	1-675-912-14	DRIVER BOARD				

< CAPACITOR >						
C702	1-126-964-51	ELECT	10uF	20%	50V	
< CONNECTOR >						
CN701	1-785-336-11	PIN, CONNECTOR(LIGHT ANGLE)10P				
CN702	1-785-550-11	CONNECTOR, FFC/FPC 8P				
< DIODE >						
D701	8-719-983-68	DIODE MTZJ-T-72-3.9A				
< IC >						
IC701	8-759-598-69	IC BA6956AN				
< RESISTOR >						
R701	1-249-411-11	CARBON	330	5%	1/4W	
R702	1-249-401-11	CARBON	47	5%	1/4W	F

A-4475-617-A DSP BOARD, COMPLETE (US)						

A-4475-667-A DSP BOARD, COMPLETE (MX,E51)						

A-4475-681-A DSP BOARD, COMPLETE (AEP)						

A-4476-018-A DSP BOARD, COMPLETE (CND)						

< CAPACITOR >						
C601	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C602	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C603	1-164-156-11	CERAMIC CHIP	0.1uF		25V	

Ref. No.	Part No.	Description		Remarks	Ref. No.	Part No.	Description		Remarks
C604	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C678	1-126-964-11	ELECT	10uF	20% 50V
C605	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C679	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C606	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C680	1-126-964-11	ELECT	10uF	20% 50V
C607	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C684	1-126-964-11	ELECT	10uF	20% 50V
C608	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C685	1-126-964-11	ELECT	10uF	20% 50V
C609	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C686	1-126-933-11	ELECT	100uF	20% 16V
C610	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C687	1-126-933-11	ELECT	100uF	20% 16V
C611	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C688	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V (MX,E51)
C612	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C689	1-126-933-11	ELECT	100uF	20% 16V
C613	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C690	1-126-934-11	ELECT	220uF	20% 10V
C614	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C691	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C615	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C692	1-136-165-00	MYLAR	0.1uF	5% 50V
C616	1-126-934-11	ELECT	220uF	20% 10V	C693	1-136-165-00	MYLAR	0.1uF	5% 50V
C617	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C694	1-136-165-00	MYLAR	0.1uF	5% 50V
C618	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	C695	1-136-165-00	MYLAR	0.1uF	5% 50V
C619	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C698	1-126-959-11	ELECT	0.47uF	20% 50V
C620	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C699	1-126-964-11	ELECT	10uF	20% 50V
C621	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	C700	1-126-964-11	ELECT	10uF	20% 50V
C622	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C704	1-126-961-11	ELECT	2.2uF	20% 50V
C623	1-126-934-11	ELECT	220uF	20% 10V	C705	1-126-964-11	ELECT	10uF	20% 50V
C624	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C706	1-126-964-11	ELECT	10uF	20% 50V
C625	1-162-915-11	CERAMIC CHIP	10PF	0.5PF 50V	C707	1-126-964-11	ELECT	10uF	20% 50V
C626	1-162-915-11	CERAMIC CHIP	10PF	0.5PF 50V	C708	1-126-964-11	ELECT	10uF	20% 50V
C627	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C709	1-126-964-11	ELECT	10uF	20% 50V
C628	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C710	1-126-964-11	ELECT	10uF	20% 50V
C629	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C711	1-162-962-11	CERAMIC CHIP	470PF	10% 50V
C630	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	C712	1-162-962-11	CERAMIC CHIP	470PF	10% 50V
C631	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	C713	1-162-957-11	CERAMIC CHIP	220PF	5% 50V
C632	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C714	1-162-957-11	CERAMIC CHIP	220PF	5% 50V
C633	1-126-934-11	ELECT	220uF	20% 10V	C715	1-162-957-11	CERAMIC CHIP	220PF	5% 50V
C634	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C716	1-162-957-11	CERAMIC CHIP	220PF	5% 50V
C635	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C717	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C636	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	C719	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C637	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	C720	1-162-957-11	CERAMIC CHIP	220PF	5% 50V
C638	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	C721	1-126-934-11	ELECT	220uF	20% 10V
C639	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	C722	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C640	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	C723	1-126-964-11	ELECT	10uF	20% 50V
C642	1-162-971-11	CERAMIC CHIP	0.001uF	10% 50V	C724	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C643	1-162-971-11	CERAMIC CHIP	0.001uF	10% 50V	C725	1-126-964-11	ELECT	10uF	20% 50V
C644	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C726	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C645	1-126-934-11	ELECT	220uF	20% 10V	C727	1-126-964-11	ELECT	10uF	20% 50V
C646	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	C728	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C647	1-126-934-11	ELECT	220uF	20% 10V	C729	1-126-964-11	ELECT	10uF	20% 50V
C658	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C730	1-126-964-11	ELECT	10uF	20% 50V
C659	1-126-934-11	ELECT	220uF	20% 10V	C731	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C660	1-126-934-11	ELECT	220uF	20% 10V	C732	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C661	1-126-934-11	ELECT	220uF	20% 10V	C733	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C662	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C734	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C664	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C735	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C665	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C736	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C666	1-126-934-11	ELECT	220uF	20% 10V	C738	1-164-357-11	CERAMIC CHIP	0.001uF	5% 50V
C667	1-126-964-11	ELECT	10uF	20% 50V	C739	1-164-357-11	CERAMIC CHIP	0.001uF	5% 50V
C668	1-126-964-11	ELECT	10uF	20% 50V	C740	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C669	1-126-964-11	ELECT	10uF	20% 50V	C741	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C670	1-126-964-11	ELECT	10uF	20% 50V	C742	1-164-357-11	CERAMIC CHIP	0.001uF	5% 50V
C671	1-126-964-11	ELECT	10uF	20% 50V	< CONNECTOR >				
C672	1-126-964-11	ELECT	10uF	20% 50V	* CN601	1-568-941-11	PIN, CONNECTOR 3P		
C673	1-126-964-11	ELECT	10uF	20% 50V					
C674	1-126-964-11	ELECT	10uF	20% 50V					

HCD-DP700

DSP

Ref. No.	Part No.	Description	Remarks
CN602	1-779-289-11	CONNECTOR, FFC (LIF(NON-ZIF)) 21P	
CN603	1-779-291-11	CONNECTOR, FFC (LIF(NON-ZIF)) 23P	
< DIODE >			
D601	8-719-158-02	DIODE RD3.9SB2	
D604	8-719-988-61	DIODE 1SS355TE-17	
D605	8-719-988-61	DIODE 1SS355TE-17	
D606	8-719-988-61	DIODE 1SS355TE-17	
D607	8-719-058-24	DIODE RB501V-40TE-17 (MX,E51)	
D608	8-719-058-24	DIODE RB501V-40TE-17 (MX,E51)	
D609	8-719-058-24	DIODE RB501V-40TE-17 (MX,E51)	
D610	8-719-058-24	DIODE RB501V-40TE-17 (MX,E51)	
< EARTH TERMINAL >			
* EP601	1-537-738-21	TERMINAL, EARTH	
* EP602	1-537-738-21	TERMINAL, EARTH	
* EP603	1-537-738-21	TERMINAL, EARTH	
* EP604	1-537-738-21	TERMINAL, EARTH	
< FERRITE BEAD >			
FB601	1-216-864-11	METAL CHIP 0 5% 1/16W	
FB602	1-216-864-11	METAL CHIP 0 5% 1/16W	
FB603	1-500-445-21	FERRITE 0UH	
FB604	1-216-864-11	METAL CHIP 0 5% 1/16W	
FB605	1-216-864-11	METAL CHIP 0 5% 1/16W	
FB606	1-216-805-11	METAL CHIP 47 5% 1/16W	
FB607	1-500-445-21	FERRITE 0UH	
FB608	1-500-445-21	FERRITE 0UH	
FB609	1-500-445-21	FERRITE 0UH	
< IC >			
IC601	8-759-698-76	IC CXD9617R	
IC602	8-759-827-81	IC IS61LV6416-15T(T&R)	
IC603	8-759-238-47	IC TC74HCT7007AF(EL)	
IC604	8-759-825-15	IC LC89056W-E	
IC605	8-759-657-47	IC AK4527	
IC607	8-749-018-85	IC M61512FP	
IC608	8-759-549-25	IC SN74LVU04APWR	
IC609	8-749-923-04	IC TOTX178A	
IC610	8-759-835-63	IC NJM2391DL1-26-TE1	
< JACK >			
J601	1-770-890-11	JACK, PIN 6P (GAME IN, MD (VIDEO) IN/OUT)	
J602	1-774-785-11	JACK, PIN 1P (SUB WOOFER OUT)	
< JUMPER RESISTOR >			
JR602	1-216-864-11	METAL CHIP 0 5% 1/16W	
JR604	1-216-864-11	METAL CHIP 0 5% 1/16W	
JR620	1-216-864-11	METAL CHIP 0 5% 1/16W	
JR621	1-216-864-11	METAL CHIP 0 5% 1/16W	
JR622	1-216-864-11	METAL CHIP 0 5% 1/16W	
< TRANSISTOR >			
Q601	8-729-801-93	TRANSISTOR 2SD1387-3	
Q603	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q604	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q605	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q606	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	
Q607	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	
Q611	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16	

Ref. No.	Part No.	Description	Remarks
Q612	8-729-113-69	TRANSISTOR FN1F4M-M32	
Q613	8-729-113-13	TRANSISTOR FA1A4M-L33	
< RESISTOR >			
R601	1-216-809-11	METAL CHIP 100 5% 1/16W	
R602	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R603	1-216-809-11	METAL CHIP 100 5% 1/16W	
R604	1-216-809-11	METAL CHIP 100 5% 1/16W	
R605	1-216-809-11	METAL CHIP 100 5% 1/16W	
R606	1-216-809-11	METAL CHIP 100 5% 1/16W	
R608	1-216-809-11	METAL CHIP 100 5% 1/16W	
R609	1-216-809-11	METAL CHIP 100 5% 1/16W	
R611	1-216-809-11	METAL CHIP 100 5% 1/16W	
R612	1-216-809-11	METAL CHIP 100 5% 1/16W	
R613	1-216-809-11	METAL CHIP 100 5% 1/16W	
R614	1-216-809-11	METAL CHIP 100 5% 1/16W	
R615	1-216-809-11	METAL CHIP 100 5% 1/16W	
R616	1-216-809-11	METAL CHIP 100 5% 1/16W	
R617	1-216-809-11	METAL CHIP 100 5% 1/16W	
R618	1-216-809-11	METAL CHIP 100 5% 1/16W	
R619	1-216-809-11	METAL CHIP 100 5% 1/16W	
R620	1-216-809-11	METAL CHIP 100 5% 1/16W	
R621	1-216-809-11	METAL CHIP 100 5% 1/16W	
R623	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R628	1-216-809-11	METAL CHIP 100 5% 1/16W	
R629	1-216-809-11	METAL CHIP 100 5% 1/16W	
R630	1-216-809-11	METAL CHIP 100 5% 1/16W	
R631	1-216-809-11	METAL CHIP 100 5% 1/16W	
R632	1-216-809-11	METAL CHIP 100 5% 1/16W	
R633	1-216-809-11	METAL CHIP 100 5% 1/16W	
R634	1-216-809-11	METAL CHIP 100 5% 1/16W	
R635	1-216-809-11	METAL CHIP 100 5% 1/16W	
R636	1-216-809-11	METAL CHIP 100 5% 1/16W	
R637	1-216-809-11	METAL CHIP 100 5% 1/16W	
R638	1-216-809-11	METAL CHIP 100 5% 1/16W	
R639	1-216-809-11	METAL CHIP 100 5% 1/16W	
R640	1-216-809-11	METAL CHIP 100 5% 1/16W	
R641	1-216-809-11	METAL CHIP 100 5% 1/16W	
R642	1-216-809-11	METAL CHIP 100 5% 1/16W	
R644	1-216-815-11	METAL CHIP 330 5% 1/16W	
R645	1-216-815-11	METAL CHIP 330 5% 1/16W	
R646	1-216-815-11	METAL CHIP 330 5% 1/16W	
R647	1-216-815-11	METAL CHIP 330 5% 1/16W	
R648	1-216-815-11	METAL CHIP 330 5% 1/16W	
R649	1-216-817-11	METAL CHIP 470 5% 1/16W	
R650	1-216-817-11	METAL CHIP 470 5% 1/16W	
R651	1-216-817-11	METAL CHIP 470 5% 1/16W	
R652	1-216-817-11	METAL CHIP 470 5% 1/16W	
R653	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R654	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R667	1-216-809-11	METAL CHIP 100 5% 1/16W	
R668	1-216-809-11	METAL CHIP 100 5% 1/16W	
R669	1-216-809-11	METAL CHIP 100 5% 1/16W	
R670	1-216-809-11	METAL CHIP 100 5% 1/16W	
R671	1-216-809-11	METAL CHIP 100 5% 1/16W	
R672	1-216-809-11	METAL CHIP 100 5% 1/16W	
R673	1-216-809-11	METAL CHIP 100 5% 1/16W	
R674	1-216-809-11	METAL CHIP 100 5% 1/16W	
R675	1-216-809-11	METAL CHIP 100 5% 1/16W	

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HCD-DP700

FRONT AMP

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C808	1-128-552-51	ELECT	47uF	20%	63V (US,CND,AEP)			< CONNECTOR >			
C808	1-128-560-11	ELECT	22uF	20%	100V (MX,E51)	CN801	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P	(AEP,US,CND)		
C812	1-136-165-00	FILM	0.1uF	5%	50V (MX,E51)	CN801	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P	(MX,E51)		
C816	1-162-306-11	CERAMIC	0.01uF	30%	16V	CN802	1-784-031-21	CONNECTOR, BOARD TO BOARD 8P			
C817	1-162-306-11	CERAMIC	0.01uF	30%	16V (AEP)	CN803	1-691-765-11	PLUG (MICRO CONNECTOR) 3P	(MX,E51)		
						< DIODE >					
C821	1-128-562-11	ELECT	47uF	20%	100V	D801	8-719-911-19	DIODE 1SS119-25			
C822	1-126-968-11	ELECT	100uF	20%	50V	D802	8-719-947-65	DIODE MTZJ-T-72-16B	(MX,E51)		
C831	1-126-964-11	ELECT	10uF	20%	50V	D821	8-719-911-19	DIODE 1SS119-25			
C832	1-126-382-11	ELECT	100uF	20%	10V	D830	8-719-911-19	DIODE 1SS119-25			
C833	1-126-961-11	ELECT	2.2uF	20%	50V	D831	8-719-911-19	DIODE 1SS119-25			
C834	1-104-665-11	ELECT	100uF	20%	10V	D851	8-719-911-19	DIODE 1SS119-25			
C851	1-128-582-11	ELECT	10uF	20%	100V (US,CND)	D852	8-719-947-65	DIODE MTZJ-T-72-16B	(MX,E51)		
C851	1-126-964-11	ELECT	10uF	20%	50V (AEP,MX,E51)	D871	8-719-510-68	DIODE D5SBA204101			
C852	1-162-292-31	CERAMIC	680PF	10%	50V	D881	8-719-911-19	DIODE 1SS119-25			
C853	1-162-282-31	CERAMIC	100PF	10%	50V	D891	8-719-911-19	DIODE 1SS119-25			
						< IC >					
C854	1-126-965-91	ELECT	22uF	20%	50V (US,CND)	IC801	8-749-016-96	IC STK402-120S	(US)		
C854	1-126-933-11	ELECT	100uF	20%	16V (AEP,MX,E51)	IC801	8-749-017-04	IC STK412-030	(MX,E51)		
C855	1-102-936-00	CERAMIC	3.0PF	±0.25PF	50V (MX,E51)	IC801	8-749-016-94	IC STK402-090S	(AEP)		
C856	1-136-495-11	FILM	0.068uF	5%	50V	IC801	8-749-016-95	IC STK402-100S	(CND)		
C857	1-136-495-11	FILM	0.068uF	5%	50V	IC922	8-759-701-59	IC NJM7809FA			
						< COIL >					
C858	1-128-552-51	ELECT	47uF	20%	63V (US,CND,AEP)	L881	1-420-872-00	COIL, AIR-CORE	(AEP,MX,E51)		
C858	1-128-560-11	ELECT	22uF	20%	100V (MX,E51)	L882	1-420-872-00	COIL, AIR-CORE	(AEP,MX,E51)		
C862	1-136-165-00	FILM	0.1uF	5%	50V (MX,E51)	< TRANSISTOR >					
C871	1-137-749-11	MYLAR	0.1uF		100V	Q801	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA		
C872	1-137-749-11	MYLAR	0.1uF		100V	Q816	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA		
						Q817	8-729-119-78	TRANSISTOR	2SC2785-HFE		
C873	1-135-928-21	ELECT	2200uF	20%	63V (US,CND,AEP)	Q821	8-729-140-82	TRANSISTOR	2SA988-PAFAEA		
C873	1-137-842-11	ELECT	2200uF	20%	80V (MX,E51)	Q822	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA		
C874	1-135-928-21	ELECT	2200uF	20%	63V (US,CND,AEP)	Q823	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA		
C874	1-137-842-11	ELECT	2200uF	20%	80V (MX,E51)	Q831	8-729-119-78	TRANSISTOR	2SC2785-HFE		
						Q832	8-729-119-78	TRANSISTOR	2SC2785-HFE		
C881	1-136-165-00	FILM	0.1uF	5%	50V (AEP,MX,E51)	Q833	8-729-119-78	TRANSISTOR	2SC2785-HFE		
						Q834	8-729-119-78	TRANSISTOR	2SC2785-HFE		
						Q835	8-729-140-82	TRANSISTOR	2SA988-PAFAEA		
C882	1-136-165-00	FILM	0.1uF	5%	50V (AEP,MX,E51)	Q836	8-729-119-78	TRANSISTOR	2SC2785-HFE		
C883	1-136-165-00	FILM	0.1uF	5%	50V (AEP,MX,E51)	Q837	8-729-119-78	TRANSISTOR	2SC2785-HFE		
						Q851	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA		
C884	1-136-165-00	FILM	0.1uF	5%	50V (AEP,MX,E51)	Q881	8-729-119-76	TRANSISTOR	2SA1175-HFE		
C885	1-162-306-11	CERAMIC	0.01uF	30%	16V (AEP,MX,E51)	< RESISTOR >					
C886	1-162-306-11	CERAMIC	0.01uF	30%	16V (AEP,MX,E51)	R801	1-249-417-11	CARBON	1K	5%	1/4W F
						R802	1-249-438-11	CARBON	56K	5%	1/4W
						R803	1-249-411-11	CARBON	330	5%	1/4W
C923	1-126-964-11	ELECT	10uF	20%	50V	(US,CND)					
C924	1-126-926-11	ELECT	1000uF	20%	10V	R803	1-249-407-11	CARBON	150	5%	1/4W F
C925	1-126-964-11	ELECT	10uF	20%	50V	(MX,E51)					
C926	1-126-933-11	ELECT	100uF	20%	16V	R803	1-249-413-11	CARBON	470	5%	1/4W F
						(AEP)					

FRONT AMP

HEAD (A)

HEAD (B)

LEAF SW

Ref. No.	Part No.	Description		Remarks	Ref. No.	Part No.	Description		Remarks
R804	1-249-438-11	CARBON	56K	5%	1/4W	R882	1-260-076-11	CARBON	10 5% 1/2W
△ R805	1-220-755-11	METAL	0.22	10%	2W				(AEP,MX,E51)
△ R806	1-220-755-11	METAL	0.22	10%	2W	R883	1-260-076-11	CARBON	10 5% 1/2W
R807	1-249-417-11	CARBON	1K	5%	1/4W F				(AEP,MX,E51)
R808	1-249-431-11	CARBON	15K	5%	1/4W	R884	1-260-076-11	CARBON	10 5% 1/2W
R809	1-249-441-11	CARBON	100K	5%	1/4W				(AEP,MX,E51)
R810	1-260-076-11	CARBON	10	5%	1/2W	R885	1-249-437-11	CARBON	47K 5% 1/4W
△ R811	1-212-881-11	FUSIBLE	100	5%	1/4W	R886	1-249-437-11	CARBON	47K 5% 1/4W
R812	1-260-330-11	CARBON	1.5K	5%	1/2W				
					(MX,E51)	R887	1-249-429-11	CARBON	10K 5% 1/4W
R816	1-249-441-11	CARBON	100K	5%	1/4W	R888	1-249-437-11	CARBON	47K 5% 1/4W
R817	1-249-441-11	CARBON	100K	5%	1/4W	R889	1-249-429-11	CARBON	10K 5% 1/4W
						R890	1-249-441-11	CARBON	100K 5% 1/4W
R818	1-249-441-11	CARBON	100K	5%	1/4W				< RELAY >
					(US,CND,MX,E51)				
R818	1-247-881-00	CARBON	120K	5%	1/4W	RY881	1-515-920-11	RELAY	
					(AEP)				< THERMISTOR >
R819	1-249-429-11	CARBON	10K	5%	1/4W				
△ R820	1-202-972-61	FUSIBLE	1	5%	1/4W				< THERMISTOR >
R821	1-249-421-11	CARBON	2.2K	5%	1/4W F	TH801	1-807-796-11	THERMISTOR	
									< TERMINAL >
R822	1-249-433-11	CARBON	22K	5%	1/4W				
R823	1-249-429-11	CARBON	10K	5%	1/4W				
R824	1-249-421-11	CARBON	2.2K	5%	1/4W F	TM801	1-694-677-12	TERMINAL BOARD (4P)	
R825	1-249-439-11	CARBON	68K	5%	1/4W				*****
R826	1-249-426-11	CARBON	5.6K	5%	1/4W				
									1-676-220-11 HEAD (A) BOARD
R827	1-249-431-11	CARBON	15K	5%	1/4W				*****
R828	1-249-435-11	CARBON	33K	5%	1/4W				< CONNECTOR >
R830	1-249-425-11	CARBON	4.7K	5%	1/4W F				
R831	1-249-425-11	CARBON	4.7K	5%	1/4W F	* CN1	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P	
R833	1-249-425-11	CARBON	4.7K	5%	1/4W F				*****
R834	1-249-433-11	CARBON	22K	5%	1/4W				1-676-221-11 HEAD (B) BOARD
R835	1-249-435-11	CARBON	33K	5%	1/4W				*****
R836	1-249-429-11	CARBON	10K	5%	1/4W				< CONNECTOR >
R837	1-249-429-11	CARBON	10K	5%	1/4W				
R839	1-249-437-11	CARBON	47K	5%	1/4W				
									CN2 1-564-722-11 PIN, CONNECTOR (SMALL TYPE) 6P
R840	1-249-438-11	CARBON	56K	5%	1/4W				*****
R851	1-249-417-11	CARBON	1K	5%	1/4W F				
R852	1-249-438-11	CARBON	56K	5%	1/4W				A-2007-838-A LEAF SW BOARD, COMPLETE
R853	1-249-411-11	CARBON	330	5%	1/4W				*****
					(US,CND)				< CAPACITOR >
R853	1-249-407-11	CARBON	150	5%	1/4W F				
					(MX,E51)				
						C1001	1-107-716-11	ELECT	33uF 20% 10V
R853	1-249-413-11	CARBON	470	5%	1/4W F				< CONNECTOR >
					(AEP)				
R854	1-249-438-11	CARBON	56K	5%	1/4W				
△ R855	1-220-755-11	METAL	0.22	10%	2W	CN1001	1-568-860-21	SOCKET, CONNECTOR 17P	
△ R856	1-220-755-11	METAL	0.22	10%	2W	CN1001	1-784-459-11	CONNECTOR, FFC/FPC 17P	
R857	1-249-417-11	CARBON	1K	5%	1/4W F				< DIODE >
R858	1-249-431-11	CARBON	15K	5%	1/4W				
R859	1-249-441-11	CARBON	100K	5%	1/4W	D1001	8-719-911-19	DIODE 1SS119-25	
R860	1-260-076-11	CARBON	10	5%	1/2W	D1002	8-719-911-19	DIODE 1SS119-25	
△ R861	1-212-881-11	FUSIBLE	100	5%	1/4W				< IC >
R862	1-260-330-11	CARBON	1.5K	5%	1/2W				
					(MX,E51)				
						IC1001	8-749-016-76	IC RPI-321	
R871	1-249-441-11	CARBON	100K	5%	1/4W	IC1002	8-749-016-76	IC RPI-321	
R872	1-249-441-11	CARBON	100K	5%	1/4W				
R880	1-216-457-00	METAL OXIDE	1.2K	5%	2W				
					(US,CND,AEP)				
△ R880	1-215-890-11	METAL OXIDE	470	5%	2W				
					(MX,E51)				
R881	1-260-076-11	CARBON	10	5%	1/2W				
					(AEP,MX,E51)				

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-DP700

LEAF SW

MAIN

Ref. No.	Part No.	Description	Remarks			
< TRANSISTOR >						
Q1001	8-729-029-56	TRANSISTOR	DTA144ESA			
< RESISTOR >						
R1001	1-249-409-11	CARBON	220	5%	1/4W	F
R1002	1-249-409-11	CARBON	220	5%	1/4W	F
R1003	1-249-414-11	CARBON	560	5%	1/4W	F
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W	
R1005	1-247-818-11	CARBON	300	5%	1/4W	
R1006	1-247-864-11	CARBON	24K	5%	1/4W	
R1007	1-247-780-00	CARBON	7.5	5%	1/4W	
R1008	1-249-417-11	CARBON	1K	5%	1/4W	F
< VARIABLE RESISTOR >						
RV1001	1-241-785-11	RES, ADJ, CARBON 10K (HIGH, SPEED)				
RV1002	1-241-785-11	RES, ADJ, CARBON 10K (NORM, SPEED)				
< SWITCH >						
S1001	1-570-953-11	SWITCH, PUSH (1 KEY)(DECK A PLAY)				
S1002	1-570-953-11	SWITCH, PUSH (1 KEY)(DECK B PLAY)				
S1003	1-771-333-11	SWITCH, LEAF (DECK A HALF)				
S1004	1-771-536-12	SWITCH, LEAF (DECK A 120/70)				
S1005	1-771-536-12	SWITCH, LEAF (DECK A REC)				
S1006	1-771-333-11	SWITCH, LEAF (DECK B HALF)				
S1008	1-771-536-12	SWITCH, LEAF (DECK B 120/70)				
S1009	1-771-536-12	SWITCH, LEAF (DECK B REC)				

A-4475-627-A		MAIN BOARD, COMPLETE (US,CND)				

A-4475-671-A		MAIN BOARD, COMPLETE (E51)				

A-4475-685-A		MAIN BOARD, COMPLETE (AEP)				

A-4476-032-A		MAIN BOARD, COMPLETE (MX)				

< CAPACITOR >						
C1	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C2	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
						(AEP,MX,E51)
C3	1-104-660-91	ELECT	47uF	20%	16V	
C4	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C5	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C7	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
						(US,CND)
C7	1-216-864-11	METAL CHIP	0	5%	1/16W	
						(MX,E51)
C11	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C12	1-104-660-91	ELECT	47uF	20%	16V	
C13	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C14	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C15	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C16	1-104-660-91	ELECT	47uF	20%	16V	
C17	1-126-959-11	ELECT	0.47uF	20%	50V	
C18	1-126-960-11	ELECT	1uF	20%	50V	
C19	1-126-960-11	ELECT	1uF	20%	50V	
C20	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
(US,CND,AEP)						

Ref. No.	Part No.	Description	Remarks			
C20	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V	
						(MX,E51)
C21	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
						(US,CND,AEP)
C21	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V	
						(MX,E51)
C22	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
C23	1-164-360-11	CERAMIC CHIP	0.1uF		16V	
C24	1-126-963-11	ELECT	4.7uF	20%	50V	
C25	1-126-964-11	ELECT	10uF	20%	50V	
C26	1-164-471-11	CERAMIC CHIP	680PF	5%	50V	
						(US,CND,MX,E51)
C26	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	
						(AEP)
C27	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C28	1-126-963-11	ELECT	4.7uF	20%	50V	
C29	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C30	1-126-962-11	ELECT	3.3uF	20%	50V	
C31	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C32	1-126-963-11	ELECT	4.7uF	20%	50V	
C34	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	
C35	1-104-660-91	ELECT	47uF	20%	16V	
C36	1-126-963-11	ELECT	4.7uF	20%	50V	
C38	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	
C39	1-164-361-11	CERAMIC CHIP	0.047uF		16V	
C40	1-164-361-11	CERAMIC CHIP	0.047uF		16V	
C41	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C42	1-162-940-11	CERAMIC CHIP	9PF	0.5PF	50V	
C43	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C46	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C48	1-162-947-11	CERAMIC CHIP	33PF	5%	50V	
						(AEP)
C49	1-162-947-11	CERAMIC CHIP	33PF	5%	50V	
						(AEP)
C51	1-162-920-11	CERAMIC CHIP	27PF	5%	50V	
C52	1-162-920-11	CERAMIC CHIP	27PF	5%	50V	
C53	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C56	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C57	1-104-660-91	ELECT	47uF	20%	16V	
C58	1-126-961-11	ELECT	2.2uF	20%	50V	
C59	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C60	1-104-660-91	ELECT	47uF	20%	16V	
C61	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C62	1-126-959-11	ELECT	0.47uF	20%	50V	
C63	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C69	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C81	1-164-363-11	CERAMIC CHIP	560PF	5%	50V	
						(AEP)
C82	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	
						(AEP)
C83	1-126-964-11	ELECT	10uF	20%	50V	
						(AEP)
C84	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
						(AEP)
C85	1-126-961-11	ELECT	2.2uF	20%	50V	
						(AEP)
C86	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
						(AEP)
C87	1-164-363-11	CERAMIC CHIP	560PF	5%	50V	
						(AEP)
C88	1-126-961-11	ELECT	2.2uF	20%	50V	
						(AEP)

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C89	1-162-974-11	CERAMIC CHIP	0.01uF		50V (AEP)	C331	1-126-965-91	ELECT	22uF	20%	50V
C90	1-162-924-11	CERAMIC CHIP	56PF	5%	50V (AEP)	C332	1-137-427-11	MYLAR	120PF	5%	50V
C91	1-162-924-11	CERAMIC CHIP	56PF	5%	50V (AEP)	C333	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C92	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V (AEP)	C334	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C105	1-126-964-11	ELECT	10uF	20%	50V	C335	1-137-150-11	MYLAR	0.01uF	5%	100V
C111	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C336	1-126-961-11	ELECT	2.2uF	20%	50V
C112	1-126-963-11	ELECT	4.7uF	20%	50V	C337	1-130-485-00	MYLAR	0.015uF	5%	50V
C113	1-126-965-91	ELECT	22uF	20%	50V	C338	1-130-481-00	MYLAR	0.0068uF	5%	50V
C114	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C339	1-130-481-00	MYLAR	0.0068uF	5%	50V
C121	1-107-721-11	ELECT	4.7uF	20%	100V	C340	1-130-486-00	MYLAR	0.018uF	10%	50V
C141	1-126-964-11	ELECT	10uF	20%	50V	C341	1-126-960-11	ELECT	1uF	20%	50V
C143	1-126-964-11	ELECT	10uF	20%	50V	C342	1-104-660-91	ELECT	47uF	20%	16V
C155	1-126-964-11	ELECT	10uF	20%	50V	C343	1-126-964-11	ELECT	10uF	20%	50V
C171	1-107-721-11	ELECT	4.7uF	20%	100V	C351	1-126-960-11	ELECT	1uF	20%	50V
C202	1-126-935-11	ELECT	470uF	20%	10V	C352	1-130-479-00	MYLAR	0.0047uF	5%	50V
C203	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C353	1-136-165-00	FILM	0.1uF	5%	50V
C204	1-126-916-11	ELECT	1000uF	20%	6.3V	C354	1-136-165-00	FILM	0.1uF	5%	50V
C205	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C355	1-126-956-91	ELECT	0.1uF	20%	50V (US,CND)
C206	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C355	1-126-964-11	ELECT	10uF	20%	50V (AEP,MX,E51)
C207	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C356	1-126-960-11	ELECT	1uF	20%	50V
C208	1-126-935-11	ELECT	470uF	20%	10V	C357	1-126-960-11	ELECT	1uF	20%	50V
C209	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C358	1-126-964-11	ELECT	10uF	20%	50V
C210	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C359	1-137-194-81	FILM	0.47uF	5%	50V
C301	1-126-960-11	ELECT	1uF	20%	50V	C360	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C302	1-130-479-00	MYLAR	0.0047uF	5%	50V	C362	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C303	1-136-165-00	FILM	0.1uF	5%	50V	C363	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C304	1-136-165-00	FILM	0.1uF	5%	50V	C368	1-126-964-11	ELECT	10uF	20%	50V
C305	1-126-956-91	ELECT	0.1uF	20%	50V (US,CND)	C369	1-126-961-11	ELECT	2.2uF	20%	50V
C305	1-126-964-11	ELECT	10uF	20%	50V (AEP,MX,E51)	C370	1-126-961-11	ELECT	2.2uF	20%	50V
C306	1-126-960-11	ELECT	1uF	20%	50V	C371	1-164-392-11	CERAMIC CHIP	390PF	10%	50V
C307	1-126-960-11	ELECT	1uF	20%	50V	C372	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C308	1-126-964-11	ELECT	10uF	20%	50V	C373	1-130-487-00	MYLAR	0.022uF	5%	50V
C309	1-137-194-81	FILM	0.47uF	5%	50V	C374	1-126-964-11	ELECT	10uF	20%	50V
C310	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C375	1-126-965-91	ELECT	22uF	20%	50V
C311	1-126-964-11	ELECT	10uF	20%	50V	C376	1-164-392-11	CERAMIC CHIP	390PF	10%	50V
C312	1-126-959-11	ELECT	0.47uF	20%	50V	C377	1-104-665-11	ELECT	100uF	20%	10V
C313	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C378	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C314	1-126-964-11	ELECT	10uF	20%	50V	C379	1-130-483-00	MYLAR	0.01uF	5%	50V
C315	1-126-963-11	ELECT	4.7uF	20%	50V	C380	1-126-964-11	ELECT	10uF	20%	50V
C316	1-126-933-11	ELECT	100uF	20%	16V	C381	1-126-965-91	ELECT	22uF	20%	50V
C317	1-104-665-11	ELECT	100uF	20%	10V	C382	1-137-427-11	MYLAR	120PF	5%	50V
C318	1-126-964-11	ELECT	10uF	20%	50V	C383	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C319	1-126-961-11	ELECT	2.2uF	20%	50V	C384	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C320	1-126-961-11	ELECT	2.2uF	20%	50V	C393	1-126-964-11	ELECT	10uF	20%	50V
C321	1-164-392-11	CERAMIC CHIP	390PF	10%	50V	C410	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C322	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	C411	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C323	1-130-487-00	MYLAR	0.022uF	5%	50V	C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C324	1-126-964-11	ELECT	10uF	20%	50V	C414	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C325	1-126-965-91	ELECT	22uF	20%	50V	C416	1-126-916-11	ELECT	1000uF	20%	6.3V
C326	1-164-392-11	CERAMIC CHIP	390PF	10%	50V	C424	1-113-619-11	CERAMIC CHIP	0.47uF		10V
C327	1-104-665-11	ELECT	100uF	20%	10V	C426	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C328	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	C428	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C329	1-130-483-00	MYLAR	0.01uF	5%	50V	C445	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C330	1-126-964-11	ELECT	10uF	20%	50V	C462	1-104-665-11	ELECT	100uF	20%	10V
						C464	1-162-974-11	CERAMIC CHIP	0.01uF		50V
						C497	1-126-964-11	ELECT	10uF	20%	50V
						C498	1-164-156-11	CERAMIC CHIP	0.1uF		25V

MAIN

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C499	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D508	8-719-988-61	DIODE 1SS355TE-17			
C501	1-126-964-11	ELECT	10uF	20%	50V	D509	8-719-988-61	DIODE 1SS355TE-17			
C502	1-136-165-00	FILM	0.1uF	5%	50V	D510	8-719-988-61	DIODE 1SS355TE-17			
C503	1-136-165-00	FILM	0.1uF	5%	50V						
C504	1-109-953-11	ELECT	2.2uF	20%	50V	D511	8-719-988-61	DIODE 1SS355TE-17			
C505	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D950	8-719-028-23	DIODE D3SBA20-4101			
C506	1-107-717-11	ELECT	47uF	20%	50V	D951	8-719-028-23	DIODE D3SBA20-4101			
C511	1-162-974-11	CERAMIC CHIP	0.01uF		50V	D961	8-719-988-61	DIODE 1SS355TE-17			
C512	1-162-974-11	CERAMIC CHIP	0.01uF		50V	D962	8-719-988-61	DIODE 1SS355TE-17			
C551	1-104-665-11	ELECT	100uF	20%	10V						
C552	1-162-974-11	CERAMIC CHIP	0.01uF		50V	D971	8-719-200-82	DIODE 11ES2-TB5			
C951	1-126-943-11	ELECT	2200uF	20%	25V	D972	8-719-200-82	DIODE 11ES2-TB5			
					(US,CND,AEP)	D973	8-719-200-82	DIODE 11ES2-TB5			
C951	1-126-953-11	ELECT	2200uF	20%	35V	D974	8-719-200-82	DIODE 11ES2-TB5			
					(MX,E51)	D975	8-719-200-82	DIODE 11ES2-TB5			
C952	1-130-483-00	MYLAR	0.01uF	5%	50V	D981	8-719-200-82	DIODE 11ES2-TB5			
C953	1-130-483-00	MYLAR	0.01uF	5%	50V	D982	8-719-200-82	DIODE 11ES2-TB5			
						D983	8-719-200-82	DIODE 11ES2-TB5			
						D984	8-719-200-82	DIODE 11ES2-TB5			
C954	1-126-944-11	ELECT	3300uF	20%	25V			< FRONT END >			
C955	1-130-483-00	MYLAR	0.01uF	5%	50V	FE1	1-693-477-12	FRONT END (3 GANGS) (MX,E51)			
C956	1-130-483-00	MYLAR	0.01uF	5%	50V	FE2	1-693-478-11	FRONT END (FM3 GANGS) (US,CND)			
C961	1-126-961-11	ELECT	2.2uF	20%	50V	FE3	1-693-496-11	FRONT END (4 GANG) (AEP)			
C971	1-162-974-11	CERAMIC CHIP	0.01uF		50V			< IC >			
						IC11	8-759-828-33	IC LA1845			
C972	1-126-935-11	ELECT	470uF	20%	16V	IC51	8-759-584-70	IC LC72131			
C973	1-162-974-11	CERAMIC CHIP	0.01uF		50V	IC81	8-759-541-48	IC BU1924 (AEP)			
C974	1-126-916-11	ELECT	1000uF	20%	6.3V	IC301	8-759-652-02	IC HA12226F			
C975	1-162-974-11	CERAMIC CHIP	0.01uF		50V	IC302	8-759-143-54	IC uPC1330HA			
C976	1-126-916-11	ELECT	1000uF	20%	6.3V						
C977	1-162-974-11	CERAMIC CHIP	0.01uF		50V	IC303	8-759-656-83	IC NJM4580MD-TE			
		< FILTER >				IC304	8-759-656-83	IC NJM4580MD-TE			
CF1	1-760-023-11	FILTER, CERAMIC (US,CND,MX,E51)				IC401	8-759-712-89	IC M30622MGA-A36FP			
CF1	1-579-185-21	FILTER, CERAMIC (AEP)				IC501	8-759-635-63	IC M51943BSL-TP			
CF2	1-760-023-11	FILTER, CERAMIC (US,CND,MX,E51)				IC551	8-759-491-46	IC TC74VHCT04AFT(EL)			
CF2	1-579-185-21	FILTER, CERAMIC (AEP)						< IFT >			
		< CONNECTOR >				IFT11	1-435-848-11	TRANSFORMER,IF(CERAMIC FILTER)			
* CN101	1-774-876-21	CONNECTOR, BOARD TO BOARD 8P						< JUMPER RESISTOR >			
CN102	1-573-847-11	CONNECTOR, BOARD TO BOARD 15P				JR1	1-216-864-11	METAL CHIP	0	5%	1/16W
CN103	1-784-038-21	CONNECTOR, BOARD TO BOARD 9P				JR2	1-216-864-11	METAL CHIP	0	5%	1/16W
* CN104	1-564-518-11	PLUG, CONNECTOR 3P				JR3	1-216-864-11	METAL CHIP	0	5%	1/16W
CN201	1-568-864-11	CONNECTOR, FFC 21P				JR4	1-216-864-11	METAL CHIP	0	5%	1/16W
						JR5	1-216-864-11	METAL CHIP	0	5%	1/16W
CN304	1-784-778-11	CONNECTOR, FFC 17P									
CN401	1-793-766-11	CONNECTOR, BOARD TO BOARD 30P				JR6	1-216-864-11	METAL CHIP	0	5%	1/16W
CN402	1-506-469-11	PIN, CONNECTOR 4P									(US,CND)
CN501	1-779-289-11	CONNECTOR,FFC(LIF(NON-ZIF))21P				JR7	1-216-864-11	METAL CHIP	0	5%	1/16W
CN502	1-779-291-11	CONNECTOR,FFC(LIF(NON-ZIF))23P				JR8	1-216-864-11	METAL CHIP	0	5%	1/16W
		< DIODE >				JR9	1-216-864-11	METAL CHIP	0	5%	1/16W
D51	8-719-988-61	DIODE 1SS355TE-17									(MX,E51)
D81	8-719-988-61	DIODE 1SS355TE-17 (AEP)				JR10	1-216-864-11	METAL CHIP	0	5%	1/16W
D111	8-719-988-61	DIODE 1SS355TE-17									(US,CND)
D112	8-719-056-82	DIODE UDZ-TE-17-6.2B									
D113	8-719-056-83	DIODE UDZ-TE-17-6.8B				JR11	1-216-864-11	METAL CHIP	0	5%	1/16W
											(AEP,MX,E51)
D501	8-719-988-61	DIODE 1SS355TE-17				JR12	1-216-864-11	METAL CHIP	0	5%	1/16W
D502	8-719-988-61	DIODE 1SS355TE-17									(US,CND)
D503	8-719-988-61	DIODE 1SS355TE-17				JR13	1-216-864-11	METAL CHIP	0	5%	1/16W
D504	8-719-988-61	DIODE 1SS355TE-17									(AEP,MX,E51)
D505	8-719-988-61	DIODE 1SS355TE-17				JR14	1-216-864-11	METAL CHIP	0	5%	1/16W
											(AEP)
D506	8-719-988-61	DIODE 1SS355TE-17				JR15	1-216-864-11	METAL CHIP	0	5%	1/16W
D507	8-719-988-61	DIODE 1SS355TE-17									

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
JR19	1-216-864-11	METAL CHIP	0	5%	1/16W (US,CND,MX,E51)	Q304	8-729-900-63	TRANSISTOR	BN1F4M-TP		
JR21	1-216-864-11	METAL CHIP	0	5%	1/16W	Q305	8-729-900-80	TRANSISTOR	BA1A4M-TP		
JR22	1-216-864-11	METAL CHIP	0	5%	1/16W	Q391	8-729-140-04	TRANSISTOR	2SB1116-TP-LK		
JR23	1-216-864-11	METAL CHIP	0	5%	1/16W	Q392	8-729-900-80	TRANSISTOR	BA1A4M-TP		
JR24	1-216-864-11	METAL CHIP	0	5%	1/16W	Q393	8-729-140-04	TRANSISTOR	2SB1116-TP-LK		
JR25	1-216-864-11	METAL CHIP	0	5%	1/16W	Q394	8-729-900-80	TRANSISTOR	BA1A4M-TP		
JR26	1-216-864-11	METAL CHIP	0	5%	1/16W	Q395	8-729-900-80	TRANSISTOR	BA1A4M-TP		
JR27	1-216-864-11	METAL CHIP	0	5%	1/16W	Q396	8-729-116-57	TRANSISTOR	2SB1068TP-K		
JR29	1-216-864-11	METAL CHIP	0	5%	1/16W	Q397	8-729-900-80	TRANSISTOR	BA1A4M-TP		
JR30	1-216-864-11	METAL CHIP	0	5%	1/16W	Q501	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		
JR31	1-216-864-11	METAL CHIP	0	5%	1/16W	Q502	8-729-900-63	TRANSISTOR	BN1F4M-TP		
JR32	1-216-864-11	METAL CHIP	0	5%	1/16W	Q503	8-729-900-63	TRANSISTOR	BN1F4M-TP		
JR33	1-216-864-11	METAL CHIP	0	5%	1/16W	Q504	8-729-900-63	TRANSISTOR	BN1F4M-TP		
JR34	1-216-864-11	METAL CHIP	0	5%	1/16W	Q505	8-729-900-36	TRANSISTOR	BA1F4M-TP		
JR201	1-216-864-11	METAL CHIP	0	5%	1/16W	Q506	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		
JR203	1-216-864-11	METAL CHIP	0	5%	1/16W	Q507	8-729-422-57	TRANSISTOR	BN1A4M-TP		
JR400	1-216-864-11	METAL CHIP	0	5%	1/16W	< RESISTOR >					
JR416	1-216-864-11	METAL CHIP	0	5%	1/16W	R1	1-216-864-11	METAL CHIP	0	5%	1/16W
JR418	1-216-864-11	METAL CHIP	0	5%	1/16W (US,CND,MX,E51)	R3	1-216-805-11	METAL CHIP	47	5%	1/16W
JR420	1-216-864-11	METAL CHIP	0	5%	1/16W (US,CND,MX,E51)	R4	1-216-805-11	METAL CHIP	47	5%	1/16W
JR462	1-216-864-11	METAL CHIP	0	5%	1/16W	R5	1-216-819-11	METAL CHIP	680	5%	1/16W
JR493	1-216-864-11	METAL CHIP	0	5%	1/16W (AEP)	R6	1-216-815-11	METAL CHIP	330	5%	1/16W
JR498	1-216-864-11	METAL CHIP	0	5%	1/16W	R7	1-216-819-11	METAL CHIP	680	5%	1/16W
< COIL >						R8	1-216-821-11	METAL CHIP	1K	5%	1/16W
L41	1-412-957-11	INDUCTOR	33uH (AEP)			R10	1-216-814-11	METAL CHIP	270	5%	1/16W
L81	1-412-963-11	INDUCTOR	100uH (AEP)			R12	1-216-833-11	METAL CHIP	10K	5%	1/16W
L301	1-410-780-11	INDUCTOR	27MH			R13	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
L302	1-414-193-41	INDUCTOR	220uH			R14	1-216-814-11	METAL CHIP	270	5%	1/16W
L303	1-414-193-41	INDUCTOR	220uH			R15	1-216-843-11	METAL CHIP	68K	5%	1/16W
L351	1-410-780-11	INDUCTOR	27MH			R16	1-216-837-11	METAL CHIP	22K	5%	1/16W
< FERRITE BEAD >						R17	1-216-839-11	METAL CHIP	33K	5%	1/16W
FB207	1-412-473-51	INDUCTOR (SMALL TYPE)	0uH			R18	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
< FILTER >						R19	1-216-833-11	METAL CHIP	10K	5%	1/16W
LPF11	1-234-612-11	FILTER, LOW PASS				R20	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
LPF12	1-234-612-11	FILTER, LOW PASS				R21	1-216-821-11	METAL CHIP	1K	5%	1/16W (US,CND,MX,E51)
< TRANSISTOR >						R21	1-216-819-11	METAL CHIP	680	5%	1/16W (AEP)
Q1	8-729-055-80	TRANSISTOR	2SC1674LK-TP			R22	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
Q2	8-729-422-57	TRANSISTOR	BN1A4M-TP			R23	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
Q11	8-729-620-05	TRANSISTOR	2SC2603TP-EF			R24	1-216-821-11	METAL CHIP	1K	5%	1/16W (US,CND,MX,E51)
Q12	8-729-620-05	TRANSISTOR	2SC2603TP-EF			R24	1-216-819-11	METAL CHIP	680	5%	1/16W (AEP)
Q81	8-729-620-05	TRANSISTOR	2SC2603TP-EF (AEP)			R25	1-216-809-11	METAL CHIP	100	5%	1/16W
Q111	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			R26	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
Q112	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			R27	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
Q113	8-729-026-68	TRANSISTOR	2SD2525(TP)			R28	1-216-849-11	METAL CHIP	220K	5%	1/16W
Q114	8-729-900-36	TRANSISTOR	BA1F4M-TP			R29	1-216-849-11	METAL CHIP	220K	5%	1/16W
Q121	8-729-141-30	TRANSISTOR	2SC3623ATP-LK			R30	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
Q141	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			R31	1-216-864-11	METAL CHIP	0	5%	1/16W
Q171	8-729-141-30	TRANSISTOR	2SC3623ATP-LK			R41	1-216-833-11	METAL CHIP	10K	5%	1/16W
Q301	8-729-801-93	TRANSISTOR	2SD1387-34-TP			R42	1-216-845-11	METAL CHIP	100K	5%	1/16W
Q302	8-729-142-46	TRANSISTOR	2SC2001TP-LK			R43	1-216-839-11	METAL CHIP	33K	5%	1/16W
Q303	8-729-142-46	TRANSISTOR	2SC2001TP-LK			R55	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R56	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R58	1-216-809-11	METAL CHIP	100	5%	1/16W
						R59	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
						R60	1-216-825-11	METAL CHIP	2.2K	5%	1/16W

HCD-DP700

MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R61	1-216-809-11	METAL CHIP	100 5% 1/16W	R334	1-218-332-11	RES-CHIP	130K 5% 1/16W
R62	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	R335	1-216-813-11	METAL CHIP	220 5% 1/16W
R63	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	R336	1-216-846-11	METAL CHIP	120K 5% 1/16W
R64	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	R337	1-216-813-11	METAL CHIP	220 5% 1/16W
R65	1-216-809-11	METAL CHIP	100 5% 1/16W	R338	1-216-837-11	METAL CHIP	22K 5% 1/16W
R66	1-216-833-11	METAL CHIP	10K 5% 1/16W	R339	1-216-834-11	METAL CHIP	12K 5% 1/16W
R67	1-216-833-11	METAL CHIP	10K 5% 1/16W	R340	1-216-850-11	METAL CHIP	270K 5% 1/16W
R68	1-216-821-11	METAL CHIP	1K 5% 1/16W	R341	1-216-813-11	METAL CHIP	220 5% 1/16W
R69	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	R342	1-216-834-11	METAL CHIP	12K 5% 1/16W
R81	1-216-851-11	METAL CHIP	330K 5% 1/16W	△ R343	1-219-787-17	FUSIBLE	5.6 5% 1/4W
R83	1-216-821-11	METAL CHIP	1K 5% 1/16W	△ R344	1-219-787-17	FUSIBLE	5.6 5% 1/4W
R84	1-216-817-11	METAL CHIP	470 5% 1/16W	R345	1-216-836-11	METAL CHIP	18K 5% 1/16W
R85	1-216-864-11	METAL CHIP	0 5% 1/16W	R346	1-216-836-11	METAL CHIP	18K 5% 1/16W
R86	1-216-805-11	METAL CHIP	47 5% 1/16W	R347	1-216-830-11	METAL CHIP	5.6K 5% 1/16W
R87	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	R348	1-216-820-11	METAL CHIP	820 5% 1/16W
R88	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	R349	1-216-823-11	METAL CHIP	1.5K 5% 1/16W
R111	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	R351	1-216-837-11	METAL CHIP	22K 5% 1/16W
R112	1-216-841-11	METAL CHIP	47K 5% 1/16W	R352	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R113	1-216-837-11	METAL CHIP	22K 5% 1/16W	R353	1-216-809-11	METAL CHIP	100 5% 1/16W
R114	1-216-849-11	METAL CHIP	220K 5% 1/16W	R354	1-216-809-11	METAL CHIP	100 5% 1/16W
R115	1-216-837-11	METAL CHIP	22K 5% 1/16W	R355	1-216-831-11	METAL CHIP	6.8K 5% 1/16W
R121	1-215-891-11	METAL OXIDE	680 5% 2W	R356	1-216-833-11	METAL CHIP	10K 5% 1/16W
R122	1-216-821-11	METAL CHIP	1K 5% 1/16W	R357	1-216-832-11	METAL CHIP	8.2K 5% 1/16W
R124	1-216-837-11	METAL CHIP	22K 5% 1/16W	R358	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
R141	1-216-821-11	METAL CHIP	1K 5% 1/16W	R359	1-216-839-11	METAL CHIP	33K 5% 1/16W
R142	1-216-822-11	METAL CHIP	1.2K 5% 1/16W	R360	1-216-821-11	METAL CHIP	1K 5% 1/16W
R143	1-216-817-11	METAL CHIP	470 5% 1/16W	R361	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R171	1-215-891-11	METAL OXIDE	680 5% 2W	R362	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R172	1-216-821-11	METAL CHIP	1K 5% 1/16W	R363	1-216-821-11	METAL CHIP	1K 5% 1/16W
R174	1-216-837-11	METAL CHIP	22K 5% 1/16W	R364	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R175	1-216-826-11	METAL CHIP	2.7K 5% 1/16W	R365	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R301	1-216-837-11	METAL CHIP	22K 5% 1/16W	R366	1-216-841-11	METAL CHIP	47K 5% 1/16W
R302	1-216-825-11	METAL CHIP	2.2K 5% 1/16W	R367	1-216-827-11	METAL CHIP	3.3K 5% 1/16W
R303	1-216-809-11	METAL CHIP	100 5% 1/16W	R368	1-216-827-11	METAL CHIP	3.3K 5% 1/16W
R304	1-216-809-11	METAL CHIP	100 5% 1/16W	R369	1-216-827-11	METAL CHIP	3.3K 5% 1/16W
R305	1-216-831-11	METAL CHIP	6.8K 5% 1/16W	R371	1-216-841-11	METAL CHIP	47K 5% 1/16W
R306	1-216-833-11	METAL CHIP	10K 5% 1/16W	R372	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
R307	1-216-832-11	METAL CHIP	8.2K 5% 1/16W	R373	1-216-821-11	METAL CHIP	1K 5% 1/16W
R308	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	R374	1-216-841-11	METAL CHIP	47K 5% 1/16W
R309	1-216-837-11	METAL CHIP	22K 5% 1/16W	R375	1-218-296-11	RES-CHIP	75K 5% 1/16W
R311	1-216-857-11	METAL CHIP	1M 5% 1/16W	R376	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
R312	1-218-745-11	RES-CHIP	160K 5% 1/16W	R377	1-216-841-11	METAL CHIP	47K 5% 1/16W
R313	1-216-845-11	METAL CHIP	100K 5% 1/16W	R378	1-218-296-11	RES-CHIP	75K 5% 1/16W
R315	1-216-833-11	METAL CHIP	10K 5% 1/16W	R381	1-216-846-11	METAL CHIP	120K 5% 1/16W
R316	1-216-839-11	METAL CHIP	33K 5% 1/16W	R382	1-216-809-11	METAL CHIP	100 5% 1/16W
R317	1-216-833-11	METAL CHIP	10K 5% 1/16W	R383	1-216-830-11	METAL CHIP	5.6K 5% 1/16W
R318	1-216-833-11	METAL CHIP	10K 5% 1/16W	R384	1-218-332-11	RES-CHIP	130K 5% 1/16W
R319	1-216-852-11	METAL CHIP	390K 5% 1/16W	R385	1-216-864-11	METAL CHIP	0 5% 1/16W
R320	1-216-822-11	METAL CHIP	1.2K 5% 1/16W	R386	1-216-846-11	METAL CHIP	120K 5% 1/16W
R321	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	R387	1-216-813-11	METAL CHIP	220 5% 1/16W
R331	1-216-846-11	METAL CHIP	120K 5% 1/16W	R388	1-216-837-11	METAL CHIP	22K 5% 1/16W
R332	1-216-809-11	METAL CHIP	100 5% 1/16W	R389	1-216-834-11	METAL CHIP	12K 5% 1/16W
R333	1-216-830-11	METAL CHIP	5.6K 5% 1/16W	R390	1-216-850-11	METAL CHIP	270K 5% 1/16W
				R391	1-216-864-11	METAL CHIP	0 5% 1/16W
				R392	1-216-834-11	METAL CHIP	12K 5% 1/16W
				R393	1-216-837-11	METAL CHIP	22K 5% 1/16W
				R394	1-216-813-11	METAL CHIP	220 5% 1/16W

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			Remarks	Ref. No.	Part No.	Description			Remarks
R396	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R484	1-216-809-11	METAL CHIP	100	5%	1/16W
R397	1-216-820-11	METAL CHIP	820	5%	1/16W	R486	1-216-809-11	METAL CHIP	100	5%	1/16W
R398	1-216-823-11	METAL CHIP	1.5K	5%	1/16W	R487	1-216-833-11	METAL CHIP	10K	5%	1/16W
R400	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R488	1-216-833-11	METAL CHIP	10K	5%	1/16W
R401	1-216-809-11	METAL CHIP	100	5%	1/16W	R489	1-216-833-11	METAL CHIP	10K	5%	1/16W
R402	1-216-809-11	METAL CHIP	100	5%	1/16W	R490	1-216-833-11	METAL CHIP	10K	5%	1/16W
R403	1-216-809-11	METAL CHIP	100	5%	1/16W	R491	1-216-833-11	METAL CHIP	10K	5%	1/16W
R404	1-216-809-11	METAL CHIP	100	5%	1/16W	R493	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R405	1-216-809-11	METAL CHIP	100	5%	1/16W	R493	1-216-821-11	METAL CHIP	1K	5%	(US,CND)
R406	1-216-809-11	METAL CHIP	100	5%	1/16W						1/16W
R407	1-216-809-11	METAL CHIP	100	5%	1/16W						(MX,E51)
R409	1-216-833-11	METAL CHIP	10K	5%	1/16W						1/16W
R411	1-216-851-11	METAL CHIP	330K	5%	1/16W	R496	1-216-833-11	METAL CHIP	10K	5%	1/16W
R413	1-216-864-11	METAL CHIP	0	5%	1/16W	R497	1-216-833-11	METAL CHIP	10K	5%	1/16W
R417	1-216-833-11	METAL CHIP	10K	5%	1/16W	R499	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R419	1-216-809-11	METAL CHIP	100	5%	1/16W	R499	1-216-821-11	RES, CHIP	1K	5%	(US,CND,MX,E51)
R422	1-216-833-11	METAL CHIP	10K	5%	1/16W						1/16W
R423	1-216-833-11	METAL CHIP	10K	5%	1/16W						(AEP, UK)
R424	1-216-825-11	METAL CHIP	2.2K	5%	1/16W						1/16W
R426	1-216-849-11	METAL CHIP	220K	5%	1/16W	R501	1-216-821-11	METAL CHIP	1K	5%	1/16W
R428	1-216-845-11	METAL CHIP	100K	5%	1/16W	R502	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R429	1-216-809-11	METAL CHIP	100	5%	1/16W	R503	1-216-841-11	METAL CHIP	47K	5%	1/16W
R430	1-216-809-11	METAL CHIP	100	5%	1/16W	R504	1-216-841-11	METAL CHIP	47K	5%	1/16W
R432	1-216-809-11	METAL CHIP	100	5%	1/16W	R505	1-216-833-11	METAL CHIP	10K	5%	1/16W
R433	1-216-809-11	METAL CHIP	100	5%	1/16W	R506	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R434	1-216-817-11	METAL CHIP	470	5%	1/16W	R507	1-216-845-11	METAL CHIP	100K	5%	1/16W
R435	1-216-817-11	METAL CHIP	470	5%	1/16W	R508	1-216-837-11	METAL CHIP	22K	5%	1/16W
R437	1-216-817-11	METAL CHIP	470	5%	1/16W	R509	1-216-821-11	METAL CHIP	1K	5%	1/16W
R438	1-216-809-11	METAL CHIP	100	5%	1/16W	R510	1-216-841-11	METAL CHIP	47K	5%	1/16W
R439	1-216-809-11	METAL CHIP	100	5%	1/16W	R511	1-216-833-11	METAL CHIP	10K	5%	1/16W
R440	1-216-809-11	METAL CHIP	100	5%	1/16W	R512	1-216-821-11	METAL CHIP	1K	5%	1/16W
R441	1-216-833-11	METAL CHIP	10K	5%	1/16W	R514	1-216-821-11	METAL CHIP	1K	5%	1/16W
R442	1-216-809-11	METAL CHIP	100	5%	1/16W	R546	1-216-833-11	METAL CHIP	10K	5%	1/16W
R443	1-216-809-11	METAL CHIP	100	5%	1/16W	R547	1-216-833-11	METAL CHIP	10K	5%	1/16W
R444	1-216-809-11	METAL CHIP	100	5%	1/16W	R548	1-216-833-11	METAL CHIP	10K	5%	1/16W
R445	1-216-809-11	METAL CHIP	100	5%	1/16W	R551	1-216-809-11	METAL CHIP	100	5%	1/16W
R446	1-216-809-11	METAL CHIP	100	5%	1/16W	R552	1-216-809-11	METAL CHIP	100	5%	1/16W
R447	1-216-809-11	METAL CHIP	100	5%	1/16W	R553	1-216-809-11	METAL CHIP	100	5%	1/16W
R448	1-216-809-11	METAL CHIP	100	5%	1/16W	R961	1-216-837-11	METAL CHIP	22K	5%	1/16W
R449	1-216-809-11	METAL CHIP	100	5%	1/16W	R962	1-216-837-11	METAL CHIP	22K	5%	1/16W
R451	1-216-833-11	METAL CHIP	10K	5%	1/16W	R963	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R453	1-216-833-11	METAL CHIP	10K	5%	1/16W	RB41	1-234-575-11	ENCAPSULATED COMPONENT	< ENCAPSULATED >		
R456	1-216-809-11	METAL CHIP	100	5%	1/16W				< VARIABLE RESISTOR >		
R457	1-216-809-11	METAL CHIP	100	5%	1/16W						
R468	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R469	1-216-833-11	METAL CHIP	10K	5%	1/16W	RV11	1-241-765-11	RES, ADJ, CARBON 22K			
R470	1-216-809-11	METAL CHIP	100	5%	1/16W	RV301	1-241-764-11	RES, ADJ, CARBON 10K (REC LEVEL (L))			
R471	1-216-809-11	METAL CHIP	100	5%	1/16W	RV302	1-241-762-11	RES, ADJ, CARBON 2.2K (PB LEVEL)			
R472	1-216-809-11	METAL CHIP	100	5%	1/16W	RV303	1-241-762-11	RES, ADJ, CARBON 2.2K (PB LEVEL)			
R473	1-216-809-11	METAL CHIP	100	5%	1/16W	RV304	1-241-768-11	RES, ADJ, CARBON 220K (REC LEVEL (L))			
R474	1-216-809-11	METAL CHIP	100	5%	1/16W	RV351	1-241-764-11	RES, ADJ, CARBON 10K (REC LEVEL (R))			
R475	1-216-809-11	METAL CHIP	100	5%	1/16W	RV354	1-241-768-11	RES, ADJ, CARBON 220K (REC LEVEL (R))			
R476	1-216-809-11	METAL CHIP	100	5%	1/16W	< TRANSFORMER >					
R477	1-216-809-11	METAL CHIP	100	5%	1/16W	T11	1-435-792-11	TRANSFORMER, DISCRIMINATOR			
R478	1-216-809-11	METAL CHIP	100	5%	1/16W	T301	1-423-980-11	TRANSFORMER, BIAS OSCILLATION			
R479	1-216-809-11	METAL CHIP	100	5%	1/16W	< TERMINAL >					
R480	1-216-809-11	METAL CHIP	100	5%	1/16W	TM1	1-694-555-22	TERMINAL BOARD (4P) (US,CND,MX,E51)			
R481	1-216-809-11	METAL CHIP	100	5%	1/16W	TM1	1-694-556-22	TERMINAL BOARD (ANT.PAL) (AEP)			
R482	1-216-809-11	METAL CHIP	100	5%	1/16W						
R483	1-216-809-11	METAL CHIP	100	5%	1/16W						

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- MAIN
- MOTOR
- OPT IN
- OPT IN REAR
- PANEL

Ref. No.	Part No.	Description	Remarks
< VIBRATOR >			
X51	1-760-549-31	VIBRATOR, CRYSTAL (4.5MHz)	
X81	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz)(AEP)	
X401	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)	
X402	1-781-107-21	VIBRATOR, SERAMIC (16MHz)	

1-675-910-14	MOTOR BOARD		

< CAPACITOR >			
C721	1-162-306-11	CERAMIC	0.01uF 30% 16V
< CONNECTOR >			
CN721	1-770-516-31	CONNECTOR, FFC 8P	
CN722	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE)4P	
< SWITCH >			
S701	1-771-822-11	SWITCH, LEVER (SLIDE)(OPEN/CLOSE SW)	

1-680-279-11	OPT IN BOARD		

< CAPACITOR >			
C1195	1-126-791-11	ELECT	10UF 20% 16V
C1196	1-164-159-11	CERAMIC	0.1UF 50V
< FERRITE BEAD >			
FB1195	1-412-473-21	INDUCTOR	0UH
< IC >			
IC1195	8-749-018-63	IC GP1FA501RZ	

1-680-851-11	OPT IN REAR BOARD (E51, MX)		

< CAPACITOR >			
C801	1-126-964-11	ELECT	10UF 20% 50V
C802	1-164-159-11	CERAMIC	0.1UF 50V
< CONNECTOR >			
CN801	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P	
< FERRITE BEAD >			
FB801	1-412-473-21	INDUCTOR	0UH
< IC >			
IC801	8-749-923-05	TORX178B	

A-4475-614-A	PANEL BOARD, COMPLETE (including CD PANEL BOARD) (US)		

A-4475-664-A	PANEL BOARD, COMPLETE (including CD PANEL BOARD) (MX,E51)		

Ref. No.	Part No.	Description	Remarks
A-4726-479-A	PANEL BOARD, COMPLETE (including CD PANEL BOARD) (AEP)		

A-4726-481-A	PANEL BOARD, COMPLETE (including CD PANEL BOARD) (CND)		

4-224-584-01	HOLDER (FL) (CND,AEP,MX,E51)		
< CAPACITOR >			
C1102	1-162-282-31	CERAMIC 100PF 10%	50V
C1103	1-162-282-31	CERAMIC 100PF 10%	50V
C1104	1-162-306-11	CERAMIC 0.01uF 30%	16V
C1105	1-162-306-11	CERAMIC 0.01uF 30%	16V
C1106	1-162-306-11	CERAMIC 0.01uF 30%	16V
C1107	1-162-306-11	CERAMIC 0.01uF 30%	16V
C1108	1-124-589-11	ELECT 47uF 20%	16V
C1109	1-162-294-31	CERAMIC 0.001uF 10%	50V
C1110	1-162-306-11	CERAMIC 0.01uF 30%	16V
C1111	1-164-159-11	CERAMIC 0.1uF	50V
C1112	1-164-159-11	CERAMIC 0.1uF	50V
C1113	1-164-159-11	CERAMIC 0.1uF	50V
C1114	1-164-159-11	CERAMIC 0.1uF	50V
C1120	1-162-282-31	CERAMIC 100PF 10%	50V
C1121	1-162-282-31	CERAMIC 100PF 10%	50V
C1122	1-162-282-31	CERAMIC 100PF 10%	50V
C1123	1-162-282-31	CERAMIC 100PF 10%	50V
C1124	1-162-282-31	CERAMIC 100PF 10%	50V
C1125	1-162-282-31	CERAMIC 100PF 10%	50V
C1126	1-162-282-31	CERAMIC 100PF 10%	50V
C1127	1-162-282-31	CERAMIC 100PF 10%	50V
C1128	1-162-282-31	CERAMIC 100PF 10%	50V
C1129	1-162-282-31	CERAMIC 100PF 10%	50V
C1130	1-162-282-31	CERAMIC 100PF 10%	50V
C1131	1-162-282-31	CERAMIC 100PF 10%	50V
C1132	1-162-282-31	CERAMIC 100PF 10%	50V
C1133	1-126-796-11	ELECT 22uF 20%	50V
C1134	1-126-796-11	ELECT 22uF 20%	50V
C1135	1-126-513-11	ELECT 47uF 20%	6.3V
C1137	1-162-294-31	CERAMIC 0.001uF 10%	50V
C1138	1-162-306-11	CERAMIC 0.01uF 30%	16V
C1139	1-126-163-11	ELECT 4.7uF 20%	50V
C1140	1-164-159-11	CERAMIC 0.1uF	50V
C1141	1-162-282-31	CERAMIC 100PF 10%	50V
C1142	1-162-282-31	CERAMIC 100PF 10%	50V
C1143	1-162-282-31	CERAMIC 100PF 10%	50V
C1203	1-162-306-11	CERAMIC 0.01uF 30%	16V (MX,E51)
C1204	1-115-868-11	ELECT 0.22uF 20%	50V (MX,E51)
C1205	1-162-294-31	CERAMIC 0.001uF 10%	50V (MX,E51)
C1206	1-162-215-31	CERAMIC 47PF 5%	50V (MX,E51)
C1207	1-162-290-31	CERAMIC 470PF 10%	50V (MX,E51)
C1208	1-115-867-11	ELECT 0.1uF 20%	50V (MX,E51)
C1209	1-115-872-11	ELECT 2.2uF 20%	50V (MX,E51)
C1210	1-162-284-31	CERAMIC 150PF 10%	50V (MX,E51)

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C1212	1-124-584-00	ELECT	100uF 20% 10V (MX,E51)	Q1111	8-729-900-80	TRANSISTOR	DTC114ES
C1213	1-126-157-11	ELECT	10uF 20% 16V (MX,E51)	Q1112	8-729-900-80	TRANSISTOR	DTC114ES
C1214	1-126-157-11	ELECT	10uF 20% 16V (MX,E51)	Q1113	8-729-119-78	TRANSISTOR	2SC2785-HFE
C1215	1-162-215-31	CERAMIC	47PF 5% 50V (MX,E51)	Q1120	8-729-119-78	TRANSISTOR	2SC2785-HFE
C1216	1-126-791-11	ELECT	10uF 20% 16V (MX,E51)	Q1123	8-729-900-74	TRANSISTOR	DTC143TS
C1241	1-162-294-31	CERAMIC	0.001uF 10% 50V	Q1124	8-729-900-74	TRANSISTOR	DTC143TS
C1242	1-162-294-31	CERAMIC	0.001uF 10% 50V	Q1201	8-729-119-78	TRANSISTOR	2SC2785TP-HFE (MX,E51)
C1250	1-164-159-11	CERAMIC	0.1uF 50V (MX,E51)	< RESISTOR >			
< CONNECTOR >				R1101	1-249-429-11	CARBON	10K 5% 1/4W
CN1101	1-793-767-11	CONNECTOR, BOARD TO BOARD 30P		R1102	1-249-429-11	CARBON	10K 5% 1/4W
CN1108	1-784-726-11	CONNECTOR, FFC 4P		R1103	1-249-429-11	CARBON	10K 5% 1/4W
< DIODE >				R1104	1-249-429-11	CARBON	10K 5% 1/4W
D1101	8-719-057-97	DIODE SEL5923A-TP15		R1105	1-249-429-11	CARBON	10K 5% 1/4W
D1102	8-719-057-97	DIODE SEL5923A-TP15		R1106	1-249-429-11	CARBON	10K 5% 1/4W
D1103	8-719-057-97	DIODE SEL5923A-TP15		R1107	1-247-807-31	CARBON	100 5% 1/4W
D1104	8-719-071-41	DIODE SELS5923C-TP15		R1108	1-247-807-31	CARBON	100 5% 1/4W
D1105	8-719-071-41	DIODE SELS5923C-TP15		R1109	1-249-429-11	CARBON	10K 5% 1/4W
D1106	8-719-071-41	DIODE SELS5923C-TP15		R1110	1-249-429-11	CARBON	10K 5% 1/4W
D1107	8-719-072-76	DIODE SEL5E23C-TP15		R1111	1-249-429-11	CARBON	10K 5% 1/4W
D1108	8-719-063-93	DIODE SLR325VC-N-T32		R1112	1-249-410-11	CARBON	270 5% 1/4W F
D1110	8-719-050-84	DIODE RB441Q-40T-77		R1113	1-249-410-11	CARBON	270 5% 1/4W F
D1111	8-719-057-97	DIODE SEL5923A-TP15		R1114	1-249-410-11	CARBON	270 5% 1/4W F
D1112	8-719-057-97	DIODE SEL5923A-TP15		R1115	1-247-807-31	CARBON	100 5% 1/4W
D1113	8-719-063-93	DIODE SLR325VC-N-T32		R1116	1-247-807-31	CARBON	100 5% 1/4W
D1121	8-719-911-19	DIODE 1SS119-25		R1117	1-247-807-31	CARBON	100 5% 1/4W
< FERRITE BEAD >				R1118	1-247-807-31	CARBON	100 5% 1/4W
FB1101	1-412-473-21	INDUCTOR 0UH		R1119	1-249-417-11	CARBON	1K 5% 1/4W F
< FILTER >				R1120	1-249-441-11	CARBON	100K 5% 1/4W
FL1101	1-518-722-11	INDICATOR TUBE, FLUORESCENT		R1121	1-249-409-11	CARBON	220 5% 1/4W F
< IC >				R1122	1-249-409-11	CARBON	220 5% 1/4W F
IC1101	6-800-320-01	IC MB90M407APF-G-105-BND		R1123	1-249-409-11	CARBON	220 5% 1/4W F
IC1102	8-759-827-69	IC NJL63H400A-1		R1124	1-249-409-11	CARBON	220 5% 1/4W F
IC1201	8-759-099-06	IC M5218AFP-TE1 (MX,E51)		R1125	1-249-441-11	CARBON	100K 5% 1/4W
< JACK >				R1126	1-249-441-11	CARBON	100K 5% 1/4W
J1101	1-691-293-21	JACK		R1127	1-249-441-11	CARBON	100K 5% 1/4W
J1202	1-815-603-11	JACK (MX,E51)		R1128	1-249-441-11	CARBON	100K 5% 1/4W
< TRANSISTOR >				R1129	1-249-441-11	CARBON	100K 5% 1/4W
Q1101	8-729-900-80	TRANSISTOR	DTC114ES	R1130	1-249-407-11	CARBON	150 5% 1/4W F
Q1102	8-729-900-80	TRANSISTOR	DTC114ES	R1131	1-249-412-11	CARBON	390 5% 1/4W F
Q1103	8-729-900-80	TRANSISTOR	DTC114ES	R1132	1-249-407-11	CARBON	150 5% 1/4W F
Q1104	8-729-900-80	TRANSISTOR	DTC114ES	R1133	1-249-407-11	CARBON	150 5% 1/4W F
Q1105	8-729-900-80	TRANSISTOR	DTC114ES	R1134	1-249-429-11	CARBON	10K 5% 1/4W
Q1106	8-729-900-80	TRANSISTOR	DTC114ES	R1135	1-249-407-11	CARBON	150 5% 1/4W F
Q1107	8-729-900-80	TRANSISTOR	DTC114ES	R1136	1-249-407-11	CARBON	150 5% 1/4W F
Q1108	8-729-900-80	TRANSISTOR	DTC114ES	R1137	1-249-407-11	CARBON	150 5% 1/4W F
Q1109	8-729-422-57	TRANSISTOR	UN4111	R1143	1-249-441-11	CARBON	100K 5% 1/4W
Q1110	8-729-119-76	TRANSISTOR	2SA1175-HFE	R1144	1-249-441-11	CARBON	100K 5% 1/4W
				R1145	1-249-441-11	CARBON	100K 5% 1/4W
				R1146	1-249-441-11	CARBON	100K 5% 1/4W
				R1147	1-249-441-11	CARBON	100K 5% 1/4W
				R1148	1-249-441-11	CARBON	100K 5% 1/4W
				R1149	1-249-441-11	CARBON	100K 5% 1/4W
				R1154	1-249-428-11	CARBON	8.2K 5% 1/4W F
				R1155	1-249-413-11	CARBON	470 5% 1/4W F
				R1156	1-249-414-11	CARBON	560 5% 1/4W F
				R1157	1-249-416-11	CARBON	820 5% 1/4W F
				R1158	1-249-417-11	CARBON	1K 5% 1/4W F
				R1159	1-249-418-11	CARBON	1.2K 5% 1/4W F

HCD-DP700

PANEL

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R1160	1-249-419-11	CARBON	1.5K	5%	1/4W F	R1285	1-249-417-11	CARBON	1K	5%	1/4W F
R1161	1-249-421-11	CARBON	2.2K	5%	1/4W F						
R1162	1-249-422-11	CARBON	2.7K	5%	1/4W F	R1286	1-249-417-11	CARBON	1K	5%	1/4W F
R1163	1-249-424-11	CARBON	3.9K	5%	1/4W F	R1287	1-249-417-11	CARBON	1K	5%	1/4W F
R1164	1-249-426-11	CARBON	5.6K	5%	1/4W	R1288	1-249-417-11	CARBON	1K	5%	1/4W F
						R1289	1-249-417-11	CARBON	1K	5%	1/4W F
R1165	1-249-428-11	CARBON	8.2K	5%	1/4W F	R1290	1-249-417-11	CARBON	1K	5%	1/4W F
R1166	1-249-431-11	CARBON	15K	5%	1/4W						
R1167	1-249-413-11	CARBON	470	5%	1/4W F	R1291	1-249-415-11	CARBON	680	5%	1/4W F
R1168	1-249-414-11	CARBON	560	5%	1/4W F	R1292	1-249-419-11	CARBON	1.5K	5%	1/4W F
R1169	1-249-416-11	CARBON	820	5%	1/4W F	R1293	1-249-419-11	CARBON	1.5K	5%	1/4W F
						R1294	1-249-419-11	CARBON	1.5K	5%	1/4W F
R1170	1-249-417-11	CARBON	1K	5%	1/4W F	R1295	1-249-419-11	CARBON	1.5K	5%	1/4W F
R1171	1-249-418-11	CARBON	1.2K	5%	1/4W F						
R1172	1-249-413-11	CARBON	470	5%	1/4W F	R1296	1-249-419-11	CARBON	1.5K	5%	1/4W F
R1173	1-249-414-11	CARBON	560	5%	1/4W F	R1297	1-249-415-11	CARBON	680	5%	1/4W F
R1174	1-249-419-11	CARBON	1.5K	5%	1/4W F			< VARIABLE RESISTOR >			
R1175	1-249-416-11	CARBON	820	5%	1/4W F	RV1201	1-227-309-11	RES, VAR, CARBON 50K (MIC VOLUME)			(MX,E51)
R1176	1-249-417-11	CARBON	1K	5%	1/4W F						
R1177	1-249-418-11	CARBON	1.2K	5%	1/4W F						
R1178	1-249-419-11	CARBON	1.5K	5%	1/4W F						
R1179	1-249-421-11	CARBON	2.2K	5%	1/4W F			< SWITCH >			
R1180	1-249-422-11	CARBON	2.7K	5%	1/4W F	S1101	1-418-725-11	ENCODER, ROTARY (12 TYPE)(VOLUME)			
R1181	1-249-424-11	CARBON	3.9K	5%	1/4W F	S1116	1-762-875-21	SWITCH, KEYBOARD (◀▶)			
R1182	1-249-426-11	CARBON	5.6K	5%	1/4W	S1117	1-762-875-21	SWITCH, KEYBOARD (■)			
R1185	1-249-401-11	CARBON	47	5%	1/4W F	S1118	1-762-875-21	SWITCH, KEYBOARD (▣)			
R1186	1-249-401-11	CARBON	47	5%	1/4W F	S1119	1-762-875-21	SWITCH, KEYBOARD (▶▶)			
R1189	1-249-441-11	CARBON	100K	5%	1/4W	S1120	1-762-875-21	SWITCH, KEYBOARD (◀◀)			
R1190	1-249-441-11	CARBON	100K	5%	1/4W	S1121	1-762-875-21	SWITCH, KEYBOARD (▶▶/+)			
R1191	1-260-083-11	CARBON	47	5%	1/2W	S1122	1-762-875-21	SWITCH, KEYBOARD (◀◀/-)			
R1192	1-260-083-11	CARBON	47	5%	1/2W	S1123	1-762-875-21	SWITCH, KEYBOARD (GAME)			
R1197	1-249-429-11	CARBON	10K	5%	1/4W	S1124	1-762-875-21	SWITCH, KEYBOARD (MD (VIDEO))			
R1198	1-249-441-11	CARBON	100K	5%	1/4W	S1125	1-762-875-21	SWITCH, KEYBOARD (DIGITAL)			
R1199	1-249-406-11	CARBON	120	5%	1/4W F	S1126	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)			
R1203	1-249-429-11	CARBON	10K	5%	1/4W	S1127	1-762-875-21	SWITCH, KEYBOARD (BAND)			
					(MX,E51)	S1128	1-762-875-21	SWITCH, KEYBOARD (CD)			
R1204	1-249-417-11	CARBON	1K	5%	1/4W F	S1129	1-762-875-21	SWITCH, KEYBOARD (EDIT)			
					(MX,E51)						
R1205	1-249-441-11	CARBON	100K	5%	1/4W	S1130	1-762-875-21	SWITCH, KEYBOARD (REPEAT)			
					(MX,E51)	S1131	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE)			
						S1132	1-762-875-21	SWITCH, KEYBOARD (TIMER SELECT)			
R1206	1-249-417-11	CARBON	1K	5%	1/4W F	S1133	1-762-875-21	SWITCH, KEYBOARD (CLOCK/TIMER SET)			
					(MX,E51)	S1134	1-762-875-21	SWITCH, KEYBOARD (SPECTRUM)			
R1207	1-249-433-11	CARBON	22K	5%	1/4W						
					(MX,E51)	S1135	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)			
R1208	1-247-807-31	CARBON	100	5%	1/4W	S1136	1-762-875-21	SWITCH, KEYBOARD (TOOL MODE)			
					(MX,E51)	S1137	1-762-875-21	SWITCH, KEYBOARD (ENTER)			
R1209	1-249-429-11	CARBON	10K	5%	1/4W	S1138	1-762-875-21	SWITCH, KEYBOARD (MOIVE MODE)			
					(MX,E51)	S1139	1-762-875-21	SWITCH, KEYBOARD (MUSIC MODE)			
R1210	1-247-883-00	CARBON	150K	5%	1/4W						
					(MX,E51)	S1140	1-762-875-21	SWITCH, KEYBOARD (DSP EDIT)			
						S1141	1-762-875-21	SWITCH, KEYBOARD (GAME MODE)			
R1211	1-247-807-31	CARBON	100	5%	1/4W	S1142	1-762-875-21	SWITCH, KEYBOARD (PFILE)			
					(MX,E51)	S1143	1-762-875-21	SWITCH, KEYBOARD (GROOVE)			
R1212	1-249-417-11	CARBON	1K	5%	1/4W F	S1144	1-762-875-21	SWITCH, KEYBOARD (EFFECT)			
					(MX,E51)						
R1213	1-249-429-11	CARBON	10K	5%	1/4W	S1145	1-762-875-21	SWITCH, KEYBOARD (2CH/MULTI)			
					(MX,E51)	S1146	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)			
R1214	1-249-431-11	CARBON	15K	5%	1/4W	S1147	1-762-875-21	SWITCH, KEYBOARD (CD SYNC HI-DUB)			
					(MX,E51)						
R1215	1-249-441-11	CARBON	100K	5%	1/4W			< VIBRATOR >			
					(MX,E51)						
						X1101	1-577-101-11	VIBRATOR, CERAMIC (4MHz)			
R1280	1-249-417-11	CARBON	1K	5%	1/4W F	*****					
R1281	1-249-417-11	CARBON	1K	5%	1/4W F						
R1282	1-249-417-11	CARBON	1K	5%	1/4W F						
R1283	1-249-417-11	CARBON	1K	5%	1/4W F						

CD SENSOR

SUB TRANS

SURROUND AMP

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
	1-675-911-14	CD SENSOR BOARD *****				< TRANSISTOR >	
		< CAPACITOR >		Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C712	1-164-159-11	CERAMIC 0.1uF 50V				< RESISTOR >	
		< IC >		R902	1-249-429-11	CARBON 10K 5% 1/4W	
				R903	1-249-429-11	CARBON 10K 5% 1/4W	
IC711	8-749-016-76	IC RPI-321				< RELAY >	
		< RESISTOR >		△RY901	1-755-276-11	RELAY, POWER	
R711	1-247-876-11	CARBON 75K 5% 1/4W				< SWITCH >	
R712	1-249-409-11	CARBON 220 5% 1/4W F					
R713	1-249-429-11	CARBON 10K 5% 1/4W		△S901	1-786-055-21	SELECTOR, VOLTAGE (E51)	
		< SWITCH >				< TRANSFORMER >	
S711	1-771-821-11	SWITCH, PUSH (1 KEY)(UP/DOWN SW)		△T901	1-435-823-11	TRANSFORMER, POWER (US,CND)	
*****				△T901	1-435-825-11	TRANSFORMER, POWER (MX,E51)	
				△T901	1-435-824-11	TRANSFORMER, POWER (AEP)	

	1-680-190-11	SUB TRANS BOARD *****			1-680-188-11	SURROUND AMP BOARD *****	
		< CAPACITOR >				< CAPACITOR >	
△C901	1-113-925-11	CERAMIC 0.01uF 20% 250V		C931	1-126-964-11	ELECT 10uF 20% 50V	
C902	1-126-768-11	ELECT 2200uF 20% 16V		C932	1-126-916-11	ELECT 1000uF 20% 6.3V	
C903	1-126-933-11	ELECT 100uF 20% 16V		C933	1-126-964-11	ELECT 10uF 20% 50V	
C904	1-164-159-11	CERAMIC 0.1uF 50V		C934	1-126-935-11	ELECT 470uF 20% 10V	
		< CONNECTOR >		C937	1-126-964-11	ELECT 10uF 20% 50V	
CN901	1-564-321-00	PIN, CONNECTOR 2P		C938	1-126-935-11	ELECT 470uF 20% 10V	
* CN902	1-564-321-21	PIN, CONNECTOR 2P (US,CND,AEP,MX)		C1071	1-136-153-00	FILM 0.01uF 5% 50V	
CN902	1-568-106-11	PIN, CONNECTOR 4P (E51)				(MX,E51)	
CN903	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE)3P		C1072	1-136-153-00	FILM 0.01uF 5% 50V	
		< DIODE >				(MX,E51)	
D901	8-719-911-19	DIODE 1SS119-25		C1073	1-137-838-11	ELECT 2200uF 20% 42V	
D902	8-719-024-99	DIODE 11ES2-NTA2B				(MX,E51)	
D903	8-719-024-99	DIODE 11ES2-NTA2B		C1074	1-137-838-11	ELECT 2200uF 20% 42V	
D904	8-719-024-99	DIODE 11ES2-NTA2B				(MX,E51)	
D905	8-719-024-99	DIODE 11ES2-NTA2B				< DIODE >	
		< FUSE >		D932	8-719-024-99	DIODE 11ES2-NTA2B	
△F911	1-532-237-00	FUSE, GLASS TUBE (DIA. 5) 3.15A/250V (E51)		D1071	8-719-510-68	DIODE D5SBA204101 (MX,E51)	
△F912	1-533-471-11	FUSE, GLASS TUBE (DIA. 5) 4A/250V (E51)				< IC >	
△F913	1-532-325-00	FUSE, GLASS TUBE (DIA. 5) 6.3A/250V (E51,MX)		IC931	8-759-039-69	IC UPC7805AHF	
△F913	1-533-468-11	FUSE, GLASS TUBE (DIA. 5) 2A/250V (AEP)		IC932	8-759-039-69	IC UPC7805AHF	
△F913	1-576-109-11	FUSE, GLASS TUBE (DIA. 5) 5A/125V (US,CND)		IC934	8-759-445-59	IC BA033T	
		< FUSE HOLDER >				< TRANSISTOR >	
FH911	1-533-217-41	HOLDER, FUSE (E51)		Q931	8-729-040-20	TRANSISTOR RT1P137L-TP	
FH912	1-533-217-41	HOLDER, FUSE (E51)		Q932	8-729-900-80	TRANSISTOR DTC114ES	
FH913	1-533-217-41	HOLDER, FUSE (E51)				< RESISTOR >	
FH914	1-533-217-41	HOLDER, FUSE (E51)		R934	1-249-429-11	CARBON 10K 5% 1/4W	
FH915	1-533-217-41	HOLDER, FUSE		R1071	1-249-441-11	CARBON 100K 5% 1/4W	
FH916	1-533-217-41	HOLDER, FUSE				(MX,E51)	
		< IC >					
IC901	8-759-158-62	IC TA78057S					

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.

TRANS

Ref. No.	Part No.	Description	Remarks		
R1072	1-249-441-11	CARBON 100K 5%	1/4W (MX,E51)		

	1-680-189-11	TRANS BOARD	*****		
< CAPACITOR >					
C911	1-128-576-11	ELECT 100uF 20%	63V		
C912	1-126-960-11	ELECT 1uF 20%	50V		
C913	1-126-968-11	ELECT 100uF 20%	50V		
C915	1-164-159-11	CERAMIC 0.1uF 50V			
< CONNECTOR >					
* CN913	1-564-518-11	PLUG, CONNECTOR 3P (MX,E51)			
* CN914	1-564-525-11	PLUG, CONNECTOR 10P			
* CN915	1-564-519-11	PLUG, CONNECTOR 4P			
< DIODE >					
D911	8-719-024-99	DIODE 11ES2-NTA2B			
D912	8-719-983-88	DIODE MTZJ-T-72-33C			
D913	8-719-118-56	DIODE RD4.7F-T7B1			
< FUSE >					
△ F916	1-532-325-00	FUSE, GLASS TUBE (DIA. 5) 6.3A/250V (E51,MX)			
△ F917	1-532-325-00	FUSE, GLASS TUBE (DIA. 5) 6.3A/250V (E51,MX)			
△ F918	1-532-325-00	FUSE, GLASS TUBE (DIA. 5) 6.3A/250V (E51,MX)			
△ F918	1-532-299-00	FUSE, GLASS TUBE (DIA. 5) 5A/250V (AEP)			
△ F918	1-576-193-21	FUSE, GLASS TUBE (DIA. 5) 6.3A/125V (US,CND)			
△ F919	1-532-299-00	FUSE, GLASS TUBE (DIA. 5) 5A/250V (AEP,E51,MX)			
△ F919	1-576-193-21	FUSE, GLASS TUBE (DIA. 5) 6.3A/125V (US,CND)			
< FUSE HOLDER >					
FH921	1-533-217-41	HOLDER, FUSE (MX,E51)			
FH922	1-533-217-41	HOLDER, FUSE (MX,E51)			
FH923	1-533-217-41	HOLDER, FUSE (MX,E51)			
FH924	1-533-217-41	HOLDER, FUSE (MX,E51)			
FH925	1-533-217-41	HOLDER, FUSE			
FH926	1-533-217-41	HOLDER, FUSE			
FH927	1-533-217-41	HOLDER, FUSE			
FH928	1-533-217-41	HOLDER, FUSE			
< TRANSISTOR >					
Q971	8-729-048-52	TRANSISTOR 2SA1932(TP)			
< RESISTOR >					
△ R911	1-217-637-00	FUSIBLE 1 5%	1/4W		
R913	1-249-429-11	CARBON 10K 5%	1/4W		
R914	1-249-429-11	CARBON 10K 5%	1/4W		
R915	1-247-807-31	CARBON 100 5%	1/4W		
R916	1-247-807-31	CARBON 100 5%	1/4W		
R918	1-219-237-91	SOLID 3.3M 20%	1/2W (US,CND)		
R918	1-219-777-91	CARBON 3.3M 10%	1/2W (US,CND)		

Ref. No.	Part No.	Description	Remarks
MISCELLANEOUS			

△ M961	1-763-072-11	FAN. DC	
68	1-796-001-11	TOUCH PAD	
FL1101	1-518-722-11	INDICATOR TUBE, FLUORESCENT	
102	1-773-042-11	WIRE (FLAT TYPE) (17 CORE)	
103	1-757-418-11	WIRE (FLAT TYPE) (21 CORE)	
104	1-757-420-11	WIRE (FLAT TYPE) (23 CORE)	
105	1-757-419-11	WIRE (FLAT TYPE) (21 CORE)	
△ 110	1-777-071-81	CORD, POWER (AEP, E51)	
△ 110	1-783-531-11	CORD, POWER (CND, US)	
△ 110	1-791-901-11	CORD, POWER (MX)	
111	1-569-008-21	ADAPTOR, CONVERSION(E51)	
△ F911	1-532-237-00	FUSE, GLASS TUBE (DIA. 5) 3.15A/250V (E51)	
△ F912	1-533-471-11	FUSE, GLASS TUBE (DIA. 5) 4A/250V (E51)	
△ F913	1-532-325-00	FUSE, GLASS TUBE (DIA. 5) 6.3A/250V	(E51,MX)
△ F913	1-533-468-11	FUSE, GLASS TUBE (DIA. 5) 2A/250V (AEP)	
△ F913	1-576-109-11	FUSE, GLASS TUBE (DIA. 5) 5A/125V (US,CND)	
△ F916	1-532-325-00	FUSE, GLASS TUBE (DIA. 5) 6.3A/250V	(E51,MX)
△ F917	1-532-325-00	FUSE, GLASS TUBE (DIA. 5) 6.3A/250V	(E51,MX)
△ F918	1-532-325-00	FUSE, GLASS TUBE (DIA. 5) 6.3A/250V	(E51,MX)
△ F918	1-532-299-00	FUSE, GLASS TUBE (DIA. 5) 5A/250V (AEP)	
△ F918	1-576-193-21	FUSE, GLASS TUBE (DIA. 5) 6.3A/125V	(US,CND)
△ F919	1-532-299-00	FUSE, GLASS TUBE (DIA. 5) 5A/250V	(AEP,E51,MX)
△ F919	1-576-193-21	FUSE, GLASS TUBE (DIA. 5) 6.3A/125V	(US,CND)
△ T911	1-435-811-11	TRANSFORMER, POWER (US)	
△ T911	1-435-812-11	TRANSFORMER, POWER (CND)	
△ T911	1-435-813-11	TRANSFORMER, POWER (AEP)	
△ T911	1-435-814-11	TRANSFORMER, POWER (E51, MX)	
155	1-454-887-32	SOLENOID, PLUNGER	
161	X-3378-241-1	MOTOR ASSY	
205	1-454-887-32	SOLENOID, PLUNGER	
211	X-3378-241-1	MOTOR ASSY	
259	1-791-983-12	WIRE (FLAT TYPE) (8 CORE)	
M721	A-4672-826-A	MOTOR ASSY	
306	1-757-710-11	WIRE (FLAT TYPE) (16 CORE)	
△ 307	A-4735-188-A	BU-30 (60) ASSY	

ACCESSORIES & PACKING MATERIALS

1-476-447-11	COMMANDER, STANDARD (RM-SR250) (AEP)
1-501-374-11	ANTENNA, LOOP (AEP)
1-501-594-71	ANTENNA (FM) (AEP)
4-210-254-01	CUSHION (FOOT) (AEP)
4-981-643-31	COVER, BATTERY (FOR RM-SR250) (AEP)
4-231-990-41	INSTRUCTION MANUAL (ENGLISH, FRENCH, SPANISH) (AEP)
4-231-990-51	INSTRUCTION MANUAL (GERMAN, SWEDISH) (AEP)

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.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>
	4-231-990-61	INSTRUCTION MANUAL (DUTCH, ITALIAN, POLISH) (AEP)					

		HARDWARE LIST					

#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S					
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S					
#3	7-685-105-19	TPG +P 2X8, TYPE2 N-S					
#4	7-685-881-09	SCREW +BVTT 4X8 (S)					
#5	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3					
#6	7-685-872-09	SCREW +BVTT 3X8 (S)					
#7	7-623-921-01	RING,RETAINING, CAPSTAN					
#8	7-628-254-05	SCREW +PS 2.6X5					
#9	7-685-781-09	SCREW +PTT 2X4 (S)					

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.

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