

HCD-DX30/RG40

SERVICE MANUAL

Ver 1.0 2001. 05



- HCD-DX30/RG40 is the tuner, deck, CD and amplifier section in MHC-DX30/RG40.

Photo : HCD-DX30

*US Model
Canadian Model
AEP Model
HCD-RG40*
*E Model
Australian Model
HCD-DX30*

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM58B-K6BD38
	Base Unit Name	BU-K2BD38
	Optical Pick-up Name	KSM-213DCP
	Tape deck Section	Model Name Using Similar Mechanism

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS: (HCD-RG40 USA models only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
with 6 ohm loads both channels driven, from 120 – 10,000 Hz; 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% (6 ohms at 1 kHz, 50 W)

Amplifier section

US, Canadian models:

HCD-RG40

Continuous RMS power output (reference) 100 + 100 watts (6 ohms at 1 kHz, 10% THD)
Total harmonic distortion less than 0.07% (6 ohms at 1 kHz, 50 W)

AEP models:

HCD-RG40

DIN power output (rated) 65 + 65 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference) 80 + 80 watts (6 ohms at 1 kHz, 10% THD)
Music power output (reference) 160 + 160 watts (6 ohms at 1 kHz, 10% THD)

Other models:

HCD-DX30

The following measured at AC 120, 220, 240 V 50/60 Hz
DIN power output (rated) 100 + 100 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference) 120 + 120 watts (6 ohms at 1 kHz, 10% THD)

Inputs

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

GAME (AUDIO) IN (phono jack): voltage 450 mV,

MIC (mini jack): sensitivity 1 mV, impedance 10 kilohms

Outputs

PHONES (stereo mini jack): accepts headphones of 8 ohms or more

FRONT SPEAKER: accepts impedance of 6 to 16 ohms

SURROUND SPEAKER (MHC-RG60 only): accepts impedance of 6 to 16 ohms

CD player section

System

Laser

Compact disc and digital audio system
Semiconductor laser ($\lambda=780$ nm)
Emission duration: continuous
Max. 44.6 μ W*

*This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.

Frequency response 2 Hz – 20 kHz (± 0.5 dB)
Wavelength 780 – 790 nm

Signal-to-noise ratio More than 90 dB

Dynamic range More than 90 dB

CD OPTICAL DIGITAL OUT

(Square optical connector jack, rear panel)

Wavelength 660 nm

Output Level -18 dBm

— Continued on next page —

COMPACT DISC DECK RECEIVER

9-873-149-01

2001E1600-1

© 2001.5

Sony Corporation

Home Audio Company

Shinagawa Tec Service Manual Production Group

SONY®

Tape deck section

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

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 US, Canadian, Mexican, Argentina models:
 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 US, Canadian models: 120 V AC, 60 Hz
 European models: 230 V AC, 50/60 Hz

Australian models: 230 – 240 V AC,
 50/60 Hz

Mexican models: 120 V AC, 50/60 Hz

Other models: 120 V, 220 V or
 230 – 240 V AC,
 50/60 Hz

Adjustable with voltage selector

Power consumption

USA models: 140 watts

HCD-RG40: 140 watts

Canadian models: 140 watts

HCD-RG40: 140 watts

European models: 140 watts

HCD-RG40: 0.5 watts (at the Power Saving Mode)

HCD-RG40: 0.5 watts (at the Power Saving Mode)

Other models: 175 watts

Dimensions (w/h/d) Approx. 280 × 325 × 421 mm

Mass

North American models:

HCD-RG40: Approx. 9.0 kg

European models:

HCD-RG40: Approx. 9.0 kg

Other models:

HCD-DX30: Approx. 10.0 kg

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

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)

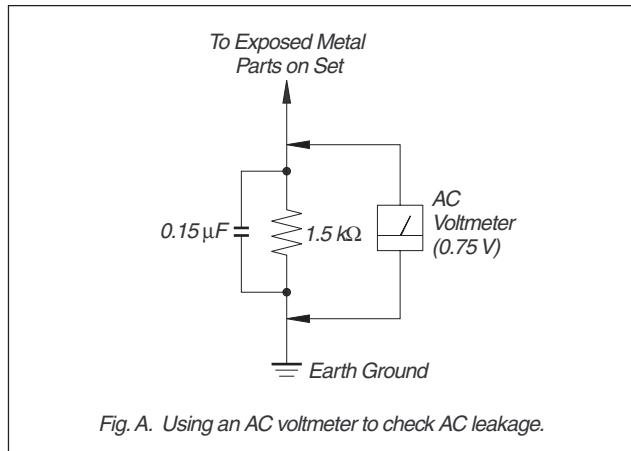


Fig. A. Using an AC voltmeter to check AC leakage.

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 IDENTIFIÉS 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 SUPPÉMENTS 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.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

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.

TABLE OF CONTENTS

1. SERVICE NOTE	4
2. GENERAL	5
3. DISASSEMBLY	7
4. TEST MODE	12
5. ELECTRICAL ADJUSTMENTS	16
6. DIAGRAMS	19
6-1. Circuit Board Location	20
6-2. Block Diagrams Tuner/CD Section	21
Main Section	22
6-3. Schematic Diagram Main Section (1/4)	23
6-4. Schematic Diagram Main Section (2/4)	24
6-5. Schematic Diagram Main Section (3/4)	25
6-6. Schematic Diagram Main Section (4/4)	26
6-7. Printed Wiring Board Main Section	27
6-8. Printed Wiring Board BD Section	28
6-9. Schematic Diagram BD Section	29
6-10. Printed Wiring Board Power AMP Section	30
6-11. Schematic Diagram Power AMP Section	31
6-12. Printed Wiring Board Panel Section	32
6-13. Schematic Diagram Panel Section	33
6-14. Printed Wiring Board Key Section	34
6-15. Schematic Diagram Key Section	35
6-16. Printed Wiring Board Driver Section	36
6-17. Schematic Diagram Driver Section	37
6-18. Printed Wiring Board Trans Section	38
6-19. Schematic Diagram Trans Section	39
6-20. IC Pin Function Description	40
6-21. IC Block Diagrams	42

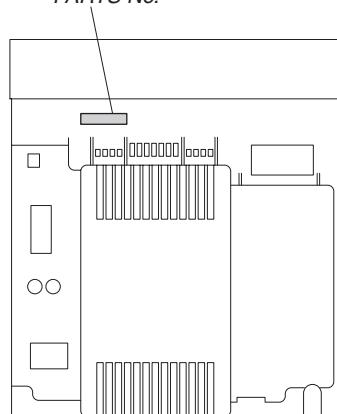
7. EXPLODED VIEWS

7-1. Main Section	45
7-2. Front Panel Section	46
7-3. Main Board Section	47
7-4. CD Mechanism Deck Section	48

8. ELECTRICAL PARTS LIST

MODEL IDENTIFICATION

— BACK PANEL — PARTS No.

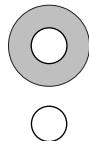
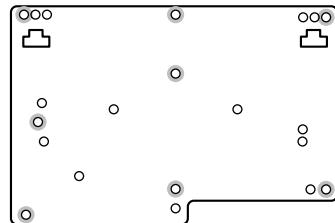
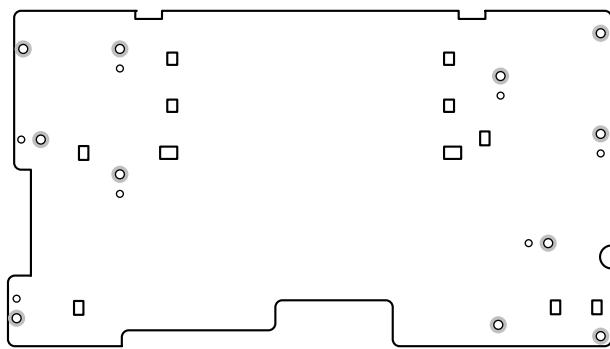
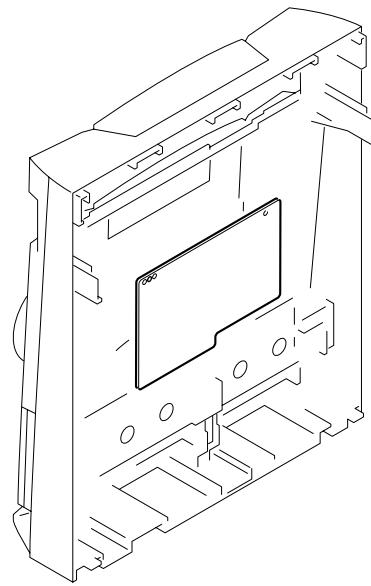
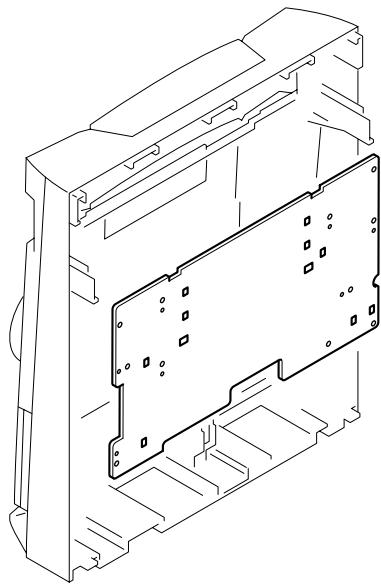


MODEL	PARTS No.
AR, E, E51, SP models	4-234-091-1□
AUS, KR, MX, TH models	4-234-091-7□

• Abbreviation

CND : Canadian model	KR : Korea model
AUS : Australian model	MX : Mexican model
SP : Singapore model	AR : Argentina model
TH : Thai model	E51 : Chilean and Peruvian model

**SECTION 1
SERVICE NOTE**

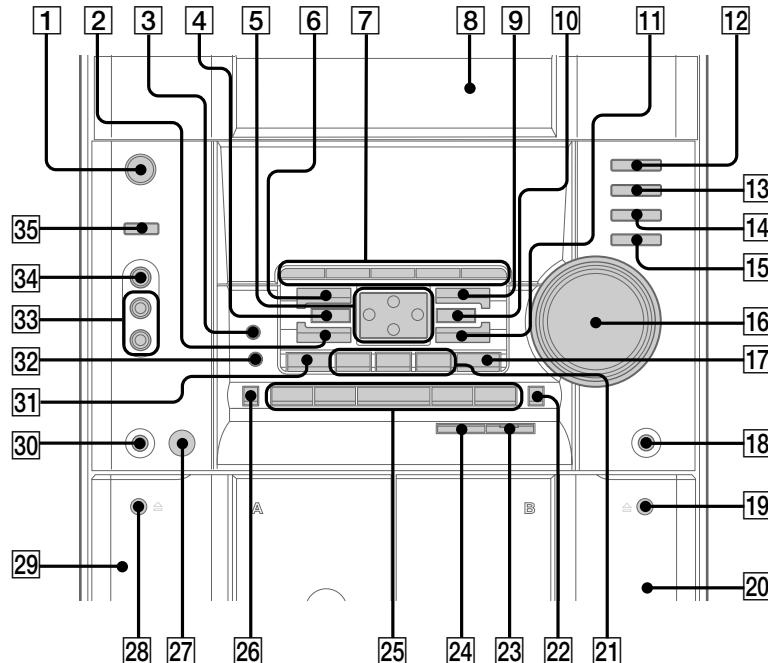


SECTION 2

GENERAL

This section is extracted
from instruction manual.

Main unit



AUDIO jacks [33]
CD [12]
CD SYNC [24]
Deck A [29]
Deck B [20]
DIRECTION*¹ [7]
DISC 1 – 3 [21]
DISC SKIP EX-CHANGE [31]
Disc tray [8]
DISPLAY [7]
EDIT [7]
EFFECT ON/OFF [4]
ENTER [10]
GAME [35]
GAME EQ [2]
GROOVE [3]
KARAOKE PON*² [32]

MD (VIDEO) [15]
MIC jack*² [30]
MIC LEVEL control*² [27]
MOVIE EQ [9]
MUSIC EQ [6]
P FILE [11]
PHONES jack [18]
PLAY MODE [7]
PTY/DIRECTION [7]
REC PAUSE/START [23]
REPEAT [7]
SPECTRUM [7]
STEREO/MONO [7]
TAPE A/B [14]
TUNER MEMORY [7]
TUNER/BAND [13]
VIDEO jack [34]
VOLUME control [16]

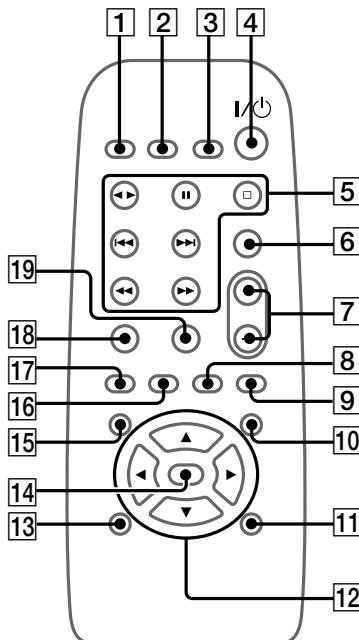
BUTTON DESCRIPTIONS

- ▲/▼/◀/▶ [5]
- ▲ (deck A) [28]
- ▲ (deck B) [19]
- ▶▶ (fast forward) [22]
- ◀◀ (go back) [25]
- △ OPEN/CLOSE [17]
- ▷/◁ (power) [1]
- (stop) [25]
- ◀▶ (play) [25]
- (pause) [25]
- ▶▶ (go forward) [25]
- ◀◀ (rewind) [26]

*¹ PTY/DIRECTION for European model

*² HCD-DX30 only

Remote Control



CD [17]
CLEAR [6]
CLOCK/TIMER SELECT [2]
CLOCK/TIMER SET [3]
D.SKIP [19]
EFFECT ON/OFF [11]
ENTER [14]
GAME [18]

MD (VIDEO) [9]
P FILE [13]
PRESET EQ [15]
SLEEP [1]
SURROUND [10]
TAPE A/B [8]
TUNER/BAND [16]
VOL +/- [7]

BUTTON DESCRIPTIONS

▲/▼/◀/▶ [12]
▶▶ (fast forward)/TUNING + [5]
◀◀ (go back)/PRESET - [5]
I/○ (power) [4]
■ (stop) [5]
◀▶ (play) [5]
II (pause) [5]
▶▶ (go forward)/PRESET + [5]
◀◀ (rewind)/TUNING - [5]

Setting the time

- 1 Turn on the system.
- 2 Press CLOCK/TIMER SET on the remote.
Proceed to step 5 when "CLOCK" appears in the display.
- 3 Press ▲ or ▼ repeatedly to select "SET CLOCK".
- 4 Press ENTER.
- 5 Press ▲ or ▼ repeatedly to set the hour.

- 6 Press ▶.
The minute indication flashes.
- 7 Press ▲ or ▼ repeatedly to set the minute.
- 8 Press ENTER.

Tip

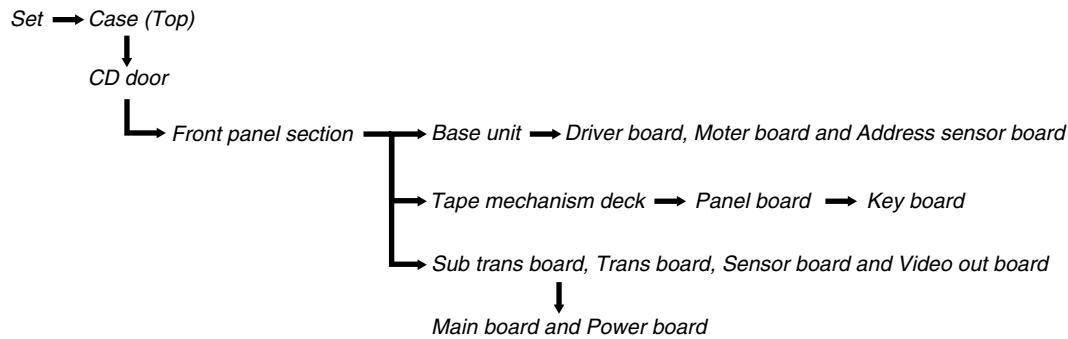
If you made a mistake or want to change the time, start over from step 1.

Note

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

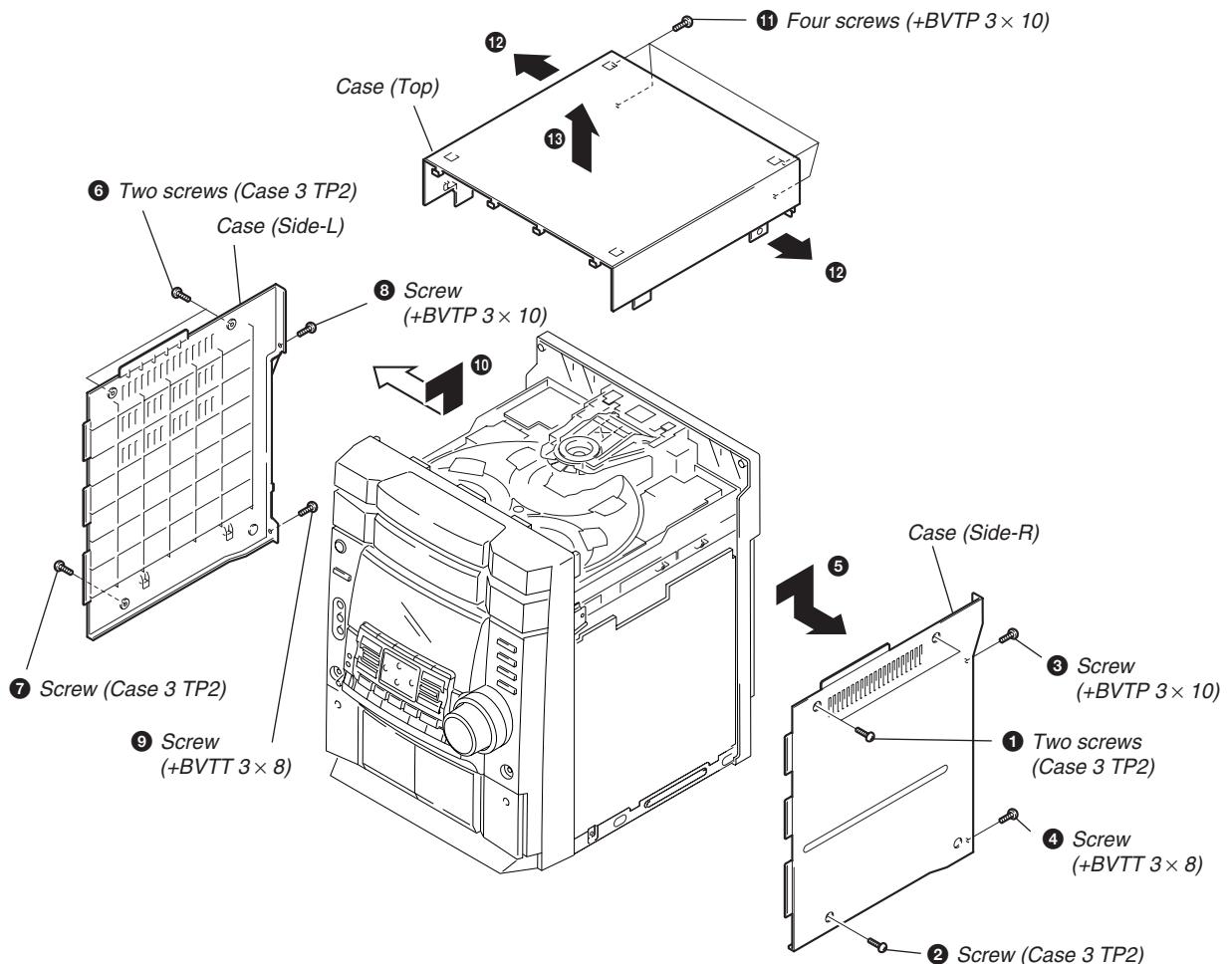
SECTION 3 DISASSEMBLY

Note : Disassemble the unit in the order as shown below.

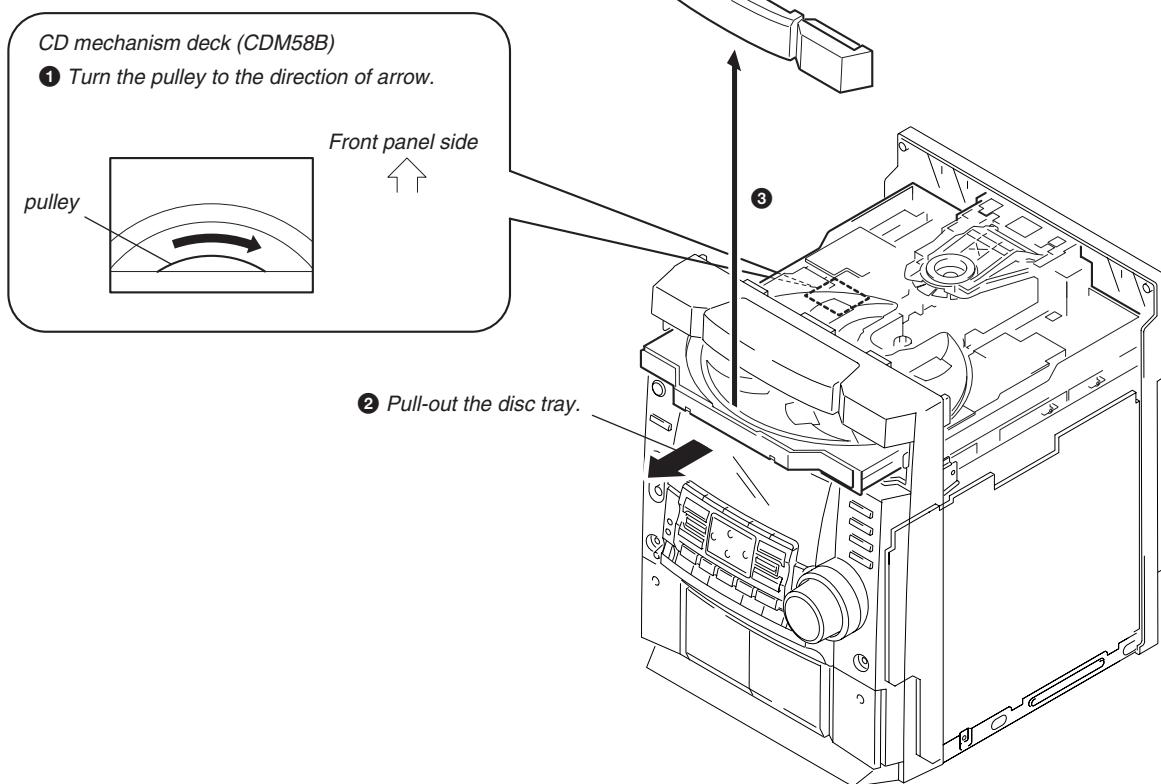


Note : Follow the disassembly procedure in the numerical order given.

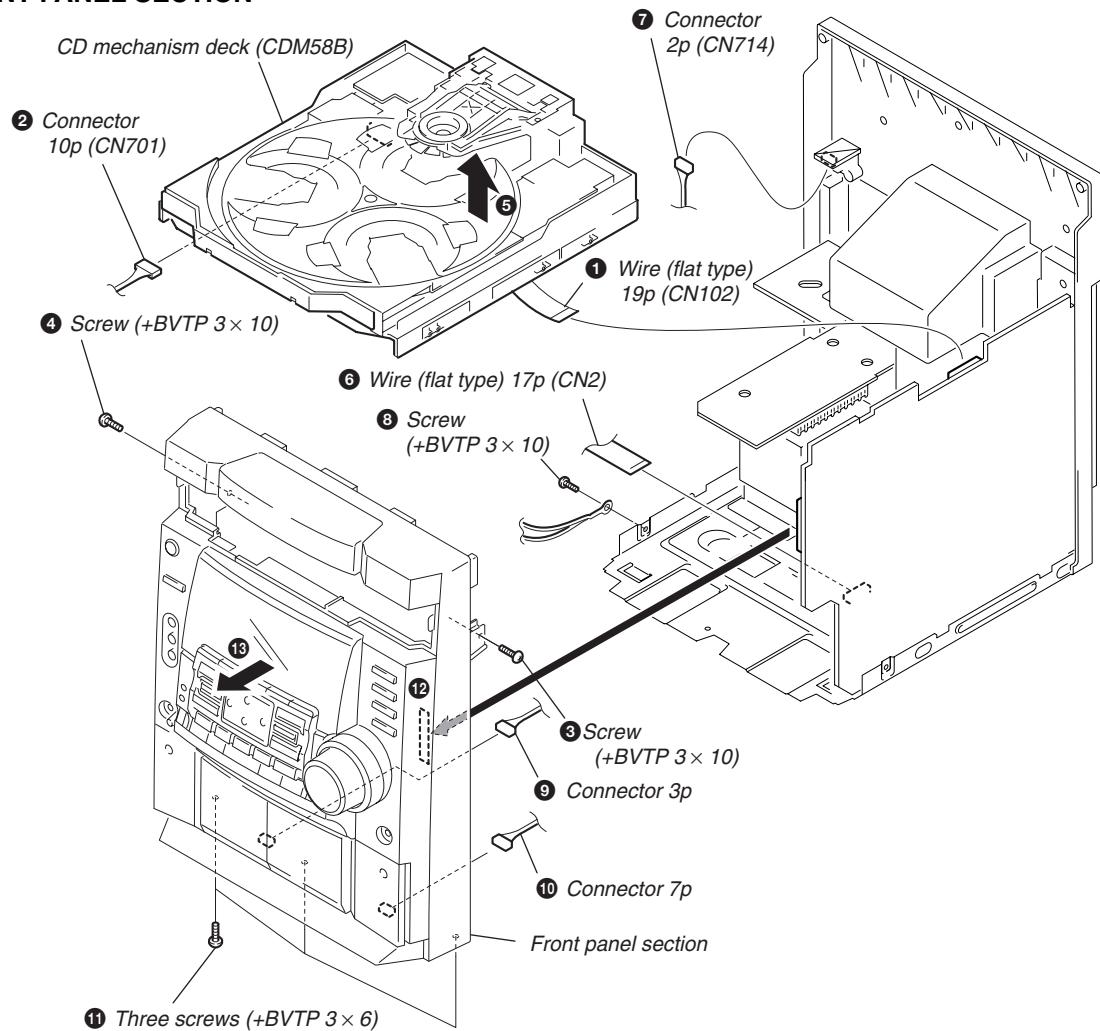
3-1. CASE (TOP)



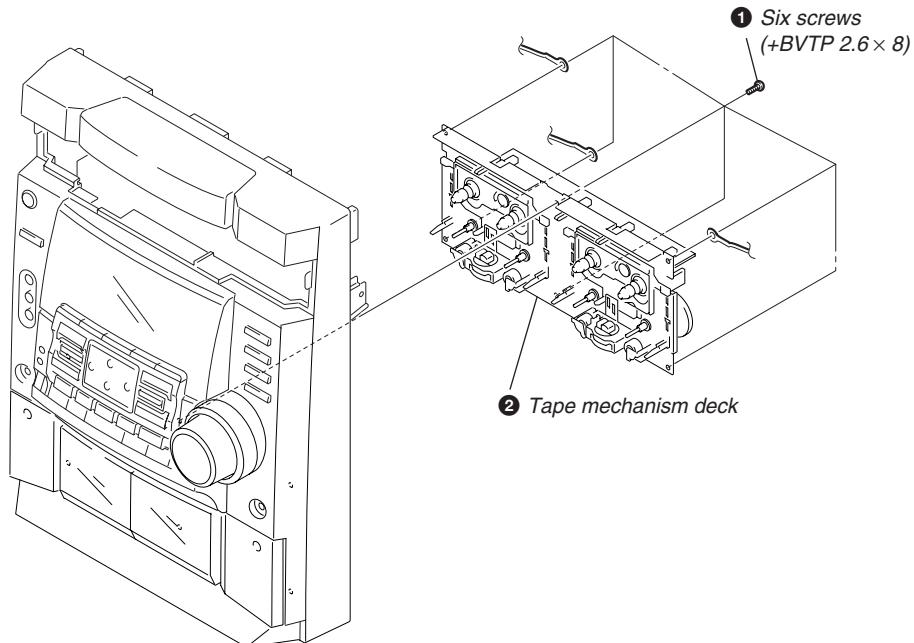
3-2. CD DDOR



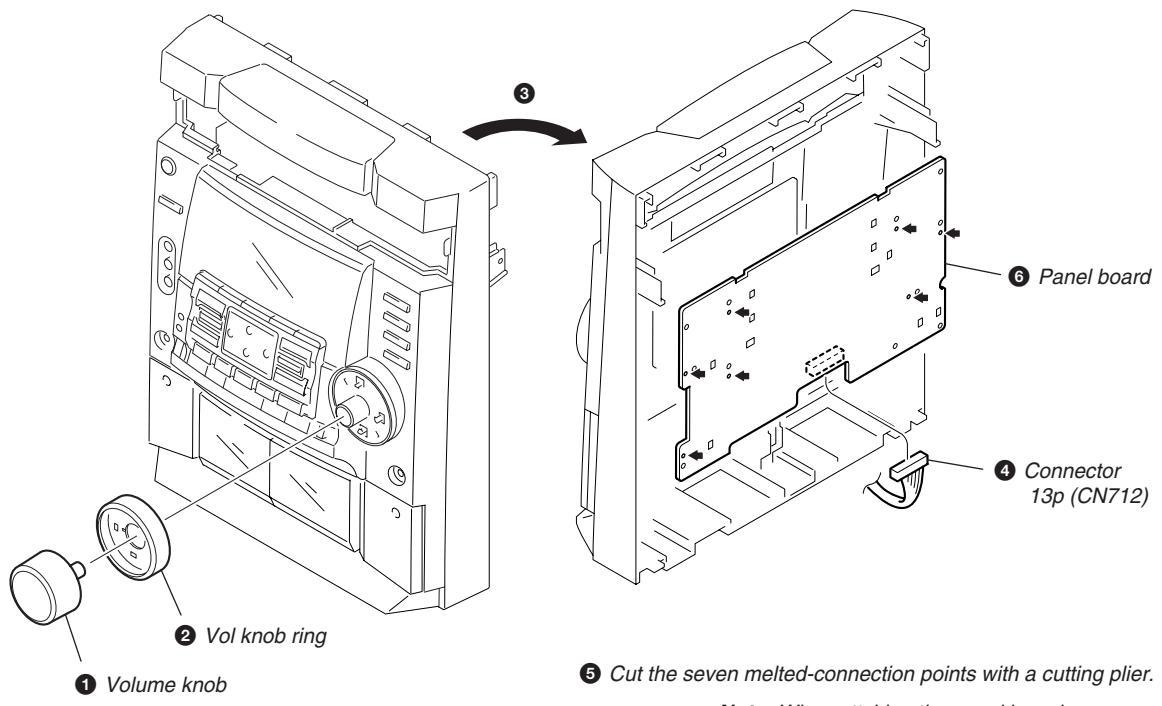
3-3. FRONT PANEL SECTION



3-4. TAPE MECHANISM DECK

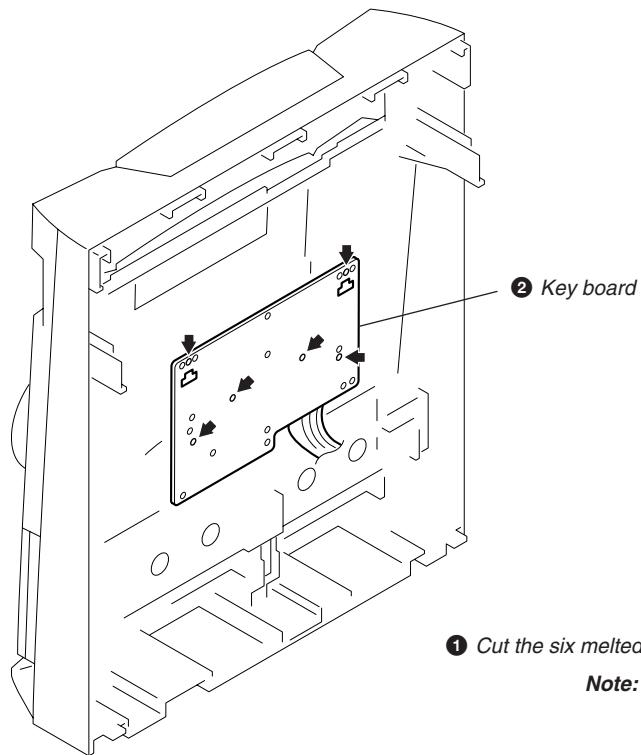


3-5. PANEL BOARD



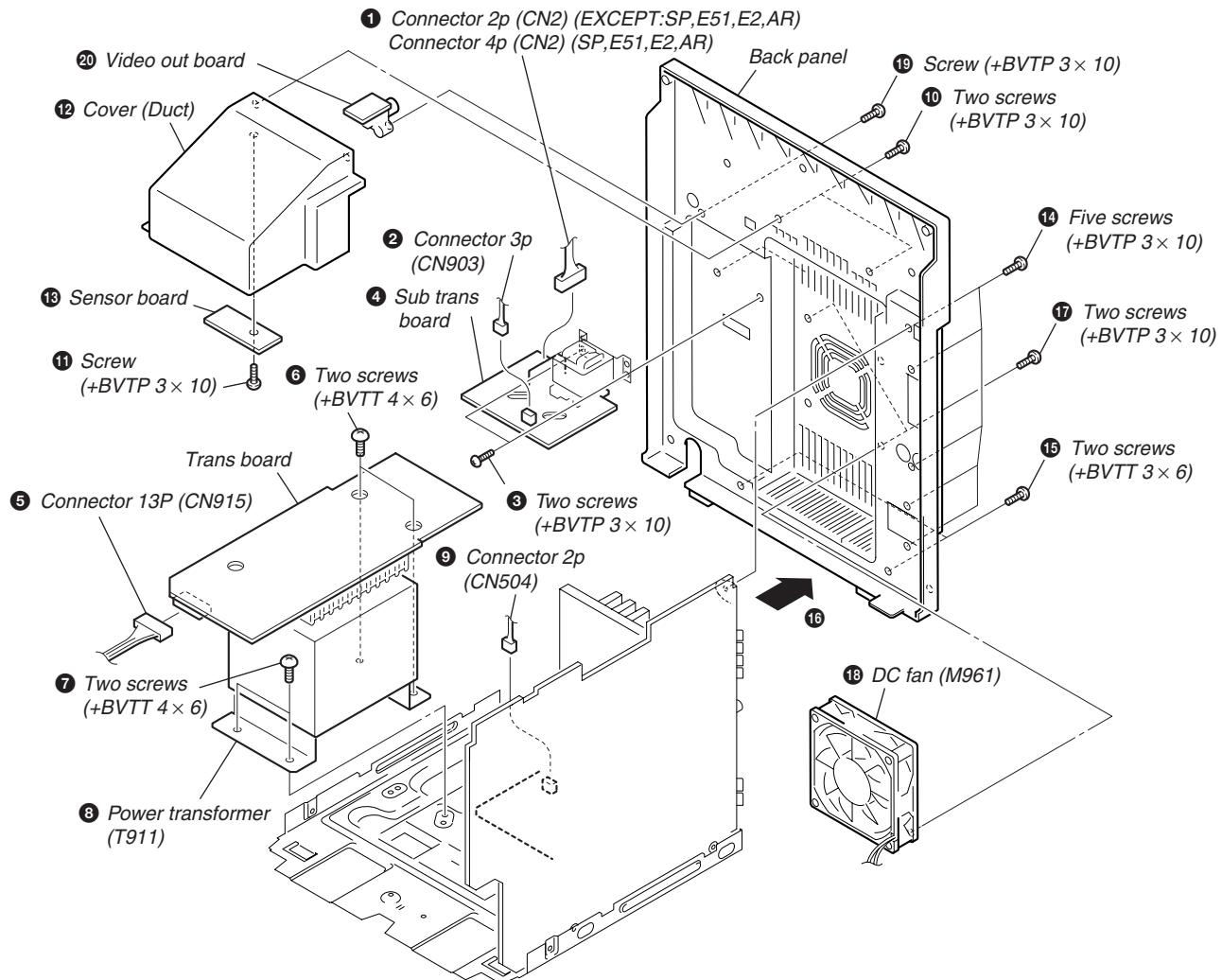
Note: When attaching the panel board,
refer to "Service Note" on page 4.

3-6. KEY BOARD

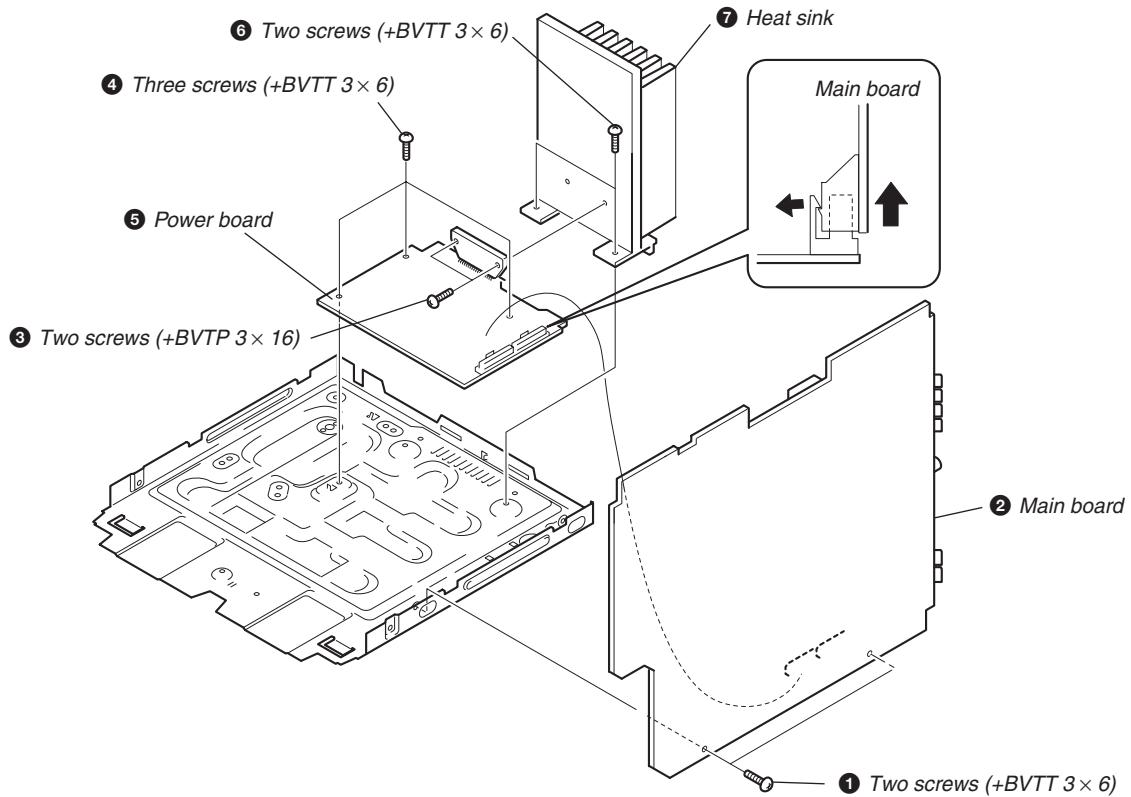


Note: When attaching the Key board,
refer to "Service Note" on page 4.

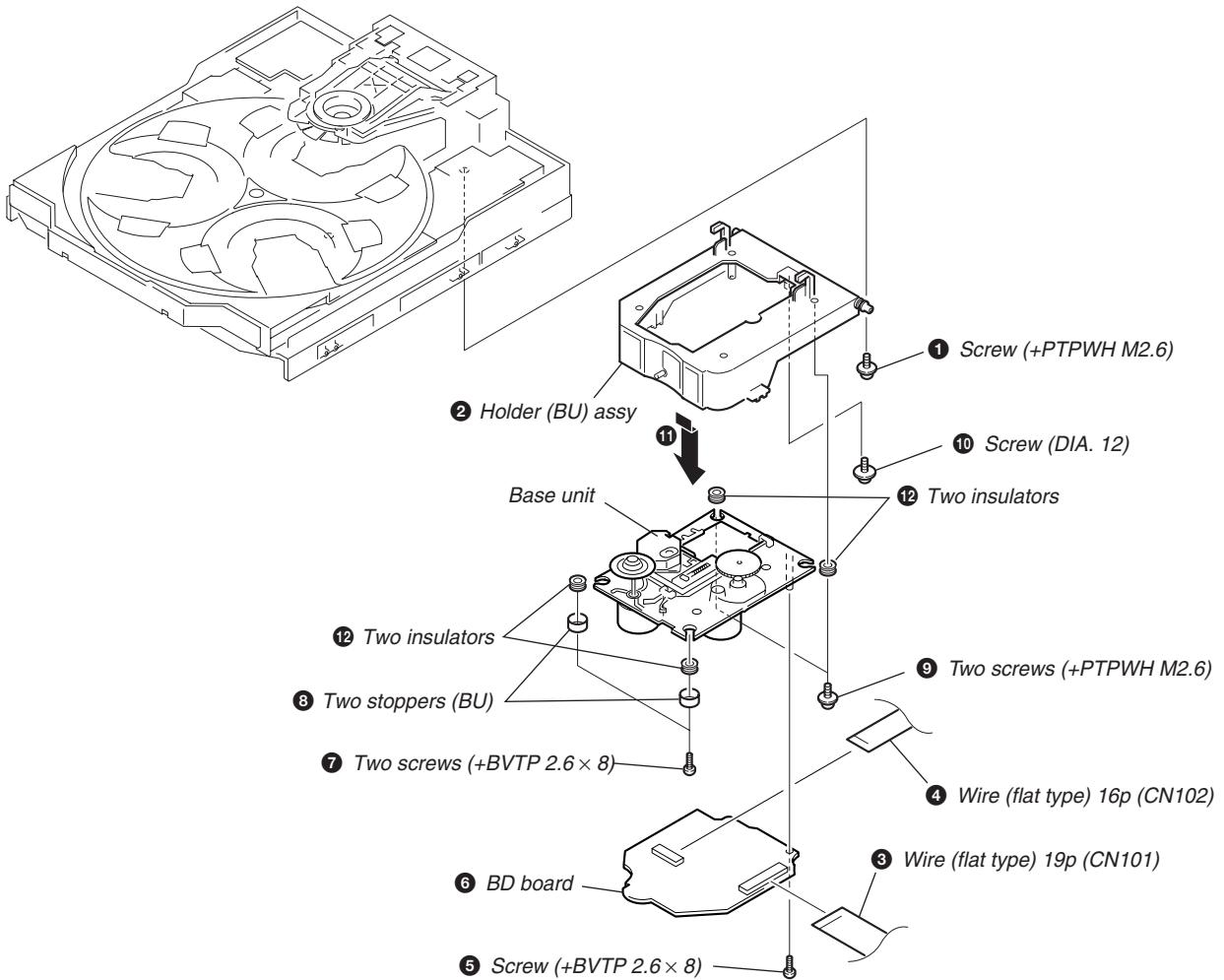
3-7. SUB TRANS BOARD, TRANS BOARD, SENSOR BOARD AND VIDEO OUT BOARD



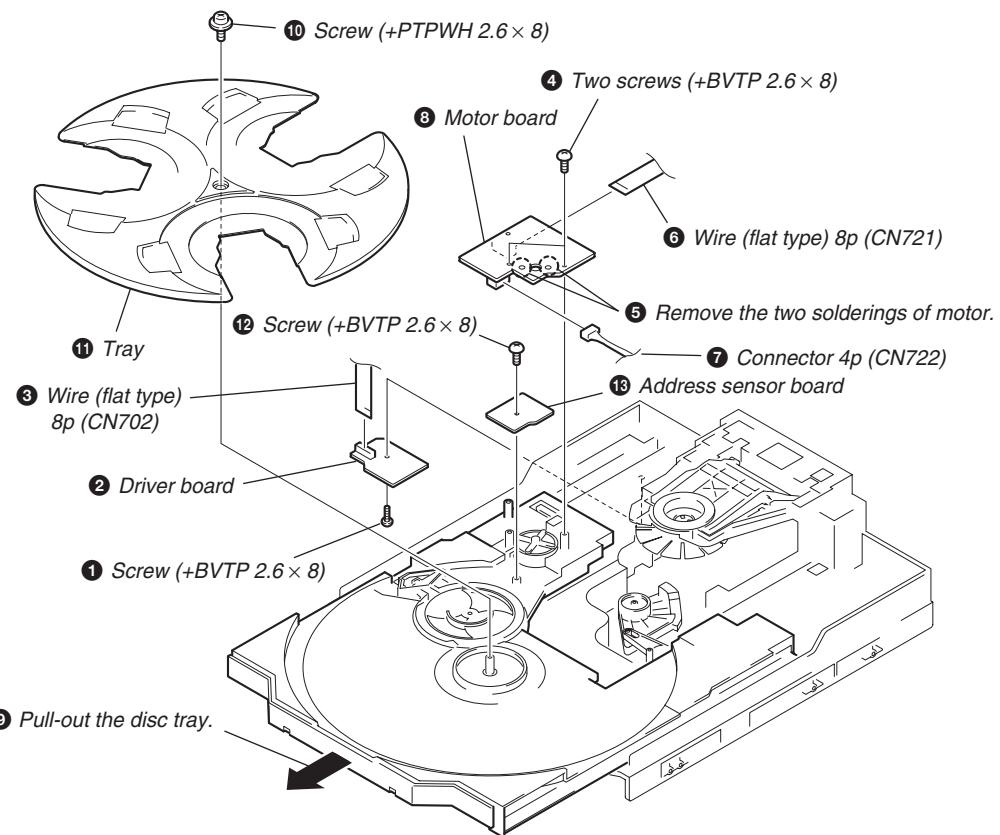
3-8. MAIN BOARD AND POWER BOARD



3-9. BASE UNIT



3-10. DRIVER BOARD, MOTOR BOARD AND ADDRESS SENSOR BOARD



SECTION 4 TEST MODE

[MC 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:

1. Press three buttons [■], [ENTER], and [I/O] simultaneously.
2. The fluorescent indicator tube displays “COLD RESET” and the set is reset.

[CD Ship Mode]

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

Procedure:

1. Press [I/O] button to turn the set ON until “STANDBY” appears.
2. Press [CD] button and [I/O] button simultaneously.
3. When you release the buttons, a message “LOCK” is displayed on the fluorescent indicator tube, and the CD ship mode is set.

[MC Hot Reset]

- This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

1. Press three buttons [■], [ENTER], and [DISPLAY] simultaneously.
2. The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

[CD Service Mode]

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

Procedure:

1. Press [I/O] button to turn the set ON.
2. Select the function “CD”.
3. Press three buttons [■], [ENTER], and [OPEN/CLOSE] simultaneously.
4. The CD service mode is selected.
5. With the CD in stop status, turn the shuttle knob clockwise to move the pickup to outside track, or turn the shuttle knob counter-clockwise to inside track.
6. To exit from this mode, perform as follows:
 - 1) Move the pickup to the most inside track.
 - 2) Press three buttons in the same manner as step 2.

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.

[Change-over of AM Tuner Step between 9 kHz and 10 kHz]

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

Procedure:

1. Press [I/O] button to turn the set ON.
2. Select the function “TUNER”, and press [TUNER/BAND] button to select the BAND “MW”.
3. Press [I/O] button to turn the set OFF.
4. Press [ENTER] and [I/O] 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.

[GC Test Mode]

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

Procedure:

1. Press three buttons [■], [ENTER] and [DISC 2] simultaneously.
2. LEDs and fluorescent indicator tube are all turned on.
3. When [ENTER] and [DISC 2] are pressed at the same time, the key number check mode starts up. In this mode, the key numbers of each key series are displayed.
4. In the key check mode, the fluorescent indicator tube displays “KEY 000”. Each time a button is pressed.
5. When [ENTER] and [DISC 2] are pressed at the same time, the key count check mode starts up. In this mode, the message “KEY CNT @@” is displayed on the FL display tube. When each button is pressed, the key row number is incremented first. Then the key value is then incremented. However, one the button is pressed, the key value cannot be counted.
6. When [ENTER] and [DISC 2] are pressed at the same time, the headphones check mode starts up. In this mode, the message “H_P ON” is displayed when the headphones are inserted. When the headphones are not inserted, the message “H_P OFF” is displayed.
7. When [ENTER] and [DISC 2] are pressed at the same time, the volume check mode starts up. In this mode, the message “VOLUME FLAT” is displayed on the FL display tube. When the volume control knob is rotated in the positive (+) direction, the message “VOLUME UP” is displayed. When the volume control knob is rotated in the negative (-) direction, the message “VOLUME DOWN” is displayed.
8. In order to quit the mode, either press [ENTER] and [DISC 2] at the same time or press the three buttons at the same time as in step 1.
9. 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, CD and Tape.

Procedure:

1. Press the **I/O** button to turn on the set.
2. Press the three buttons of **DISC 3**, **ENTER** and **DISC 3** simultaneously.
3. A message “TEST MODE” appears on the FL display tube.
 - The messages VACS1 to VACS5 are displayed when the VACS is changed in this mode.
 - The number of repeats of TAPE and CD is set to the infinite number as the default setting.
4. When **▲(CURSOR UP)** button is pressed, GEQ increases to its maximum and a message “GEQ MAX” appears.
5. When **▼(CURSOR DOWN)** button is pressed, GEQ decreases to its minimum and a message “GEQ MIN” appears.
6. When **◀(CURSOR LEFT)** or **▶(CURSOR RIGHT)** button is pressed, GEQ is set to flat and a message “GEQ FLAT” appears.
7. 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, by operating the Shuttle knob. (It means that the memory is cleared.)
8. When a tape is inserted in the Deck B and the TAPE B function is selected, and when the **REC PAUSE/START** button is pressed twice, recording starts.
The VIDEO function is selected automatically as the input source.
9. Select the desired loop by pressing the **PLAY MODE** button in the TAPE B function. Insert a test tape AMS-110A or AMS-RO to Deck A.
10. Press the **SPECTRUM** button to enter the AMS test mode.
11. After a tape is rewound first, the FF AMS is checked, and the mechanism is shut off after detecting the AMS signal twice.
12. Then the REW AMS is checked and the mechanism is shut off after detecting the AMS signal twice.
13. When the check is complete, a message of either OK or NG appears.
14. When the two buttons of **SPECTRUM** and **DISC1** are pressed at the same time in any function modes, either the “VACS ON” display to enable the VACS function or the “VACS OFF” display to disable the VACS function can be selected.
15. When you want to exit this mode, press the **I/O** button twice.
The cold reset is enforced at the same time.

[Microprocessor version display]

- If the following operation is performed during the POWER OFF in the modes other than the POWER SAVE mode (i.e., while the Demo display shows the watch time),
 1. When three buttons of **STOP**, **ENTER**, **▼(CUSOR DOWN)** are pressed at the same time, the MC and the GC microprocessor version numbers are displayed as “M1.00 G1.00”.
 2. When three buttons of **STOP**, **ENTER**, **▲(CUSOR UP)** are pressed at the same time, the model name and destination are displayed as “BG1 AS1A3”.

[Aging Mode]

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

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

1. Operating method of Aging Mode

Turn on the main power and select "CD" of the function.

- 1) Set a disc in DISC1 tray. Select ALL DISC CONTINUE, and REPEAT OFF.
- 2) Load the tapes recording use into the decks A and B respectively.
- 3) Press three buttons **[■]**, **[ENTER]**, and **[DISC SKIP EX-CHANGE]** simultaneously.
- 4) Aging operations of CD and tape are started at the same time.
- 5) To exit the aging mode, perform [MC Cold Reset].

3. Aging Mode in CD section

- 1) Display state

- No error occurs

Display

**Note:**

[*][*][*][*] : Number of aging operations

Error display

E ****** **□** **##** **\$\$** **%**
① **②** **③** **④** **⑤**

① **	The error No. 00 indicates the newest error. As the error No. increases, it means the older error. When you want to retrieve the error history, press the [PLAY MODE] button in the case of mechanism error. Or press the [REPEAT] button in the case of NO DISC error.	
② □	M: Mechanism error	D: No disc error
③ ##	Don't care	01: FOCUS ERROR 02: GFS ERROR 03: SETUP ERROR
④ \$\$	H: High order digits only D: Stopped during closing due to problems other than mechanism. E: Stopped during opening due to problems other than mechanism. C: Stopped during chucking due to problems other than mechanism. F: Stopped during EX-opening due to problems other than mechanism.	01: NO DISC judgment without chucking retry 02: NO DISC judgment after chucking retry
⑤ %	Emergency related errors (High order digits only) 1: Stopped during chuck-up 2: Stopped during chuck-down 3: Time out by EX-OPEN 5: Time out by EX-CLOSE	Status at the time of NO DISC judgment (High order digits only) 1: STOP 2: SETUP 3: TOC READ 4: ACCESS 5: PLAY BACK 6: PAUSE 7: MANUAL SEARCH (PLAY) 8: MANUAL SEARCH (PAUSE)

- When the buttons **[■]**, **[ENTER]** and **[DISC 1]** are pressed simultaneously, number of time of the mechanism error and the NO DISC error can be checked.

Display: EMC**EDC** ******: Number of times of error (Maximum three times)

EMC: Mechanism error

EDC: NO DISC error

- When aging operation is complete, be sure to perform the MC Cold Reset to reset the error history.

HCD-DX30/RG40

2) Operation during aging mode

In the aging mode, the program is executed in the following sequence.

- (1) The disc tray opens and closes.
- (2) The mechanism accesses DISC 2 and makes an attempt to read TOC. However, since there are no discs, a message "CD2 NO DISC" appears.
- (3) The mechanism accesses DISC 3 and a message "CD3 NO DISC" appears.
- (4) The disc tray turns to select a disc1.
- (5) A disc is chucked.
- (6) TOC of disc is read.
- (7) The pickup accesses to the track 1, and playing 2 seconds.
- (8) The pickup accesses to the last track, and playing 2 seconds.
- (9) Every time when an aging operation of step 1 to step 8 is complete, the display "AGING[*][*][*][*]" value increases as the number of aging operations is counted up.
- (10) Returns to step 1.

3. Aging Mode in Tape Deck section

1) Display state

- No error occurs
Display action now
- Error occurred
Display action last time

NO.	Display action	Action contents	Final timing
1	TAPE A AG-6 TAPE B AG-1	Rewind the TAPE A Rewind the TAPE B	The top of tape
2	TAPE A AG-2	FWD play the TAPE A	2 minutes playing
3	TAPE A AG-3	F.F. the TAPE A	20 second FF or the end of tape
4	TAPE A AG-4	REV play the TAPE A	2 minutes playing
5	TAPE A AG-5	Rewind the TAPE A	The top of tape
6	TAPE B AG-2	FWD play the TAPE B	2 minutes playing
7	TAPE B AG-3	F.F. the TAPE B	20 second FF or the end of tape
8	TAPE B AG-4	REV play the TAPE B	2 minutes playing
9	TAPE B AG-5	Rewind the TAPE B	The top of tape

2) Operation during aging mode

In the aging mode, the program is executed in the following sequence.

- (1) Rewind is executed up to the top of tape A and B.
- (2) A tape on FWD side is played for 2 minutes.
- (3) FF is executed up to either made for 20 second or the end of tape.
- (4) A tape is reversed, and the tape on REV side is played for 2 minutes.
The tape on the REV side is played in both A and B.
- (5) Rewind is executed up to the top of tape.
- (6) Returns to step 2, and repeat steps from 2 to 5.

[Function Change Mode]

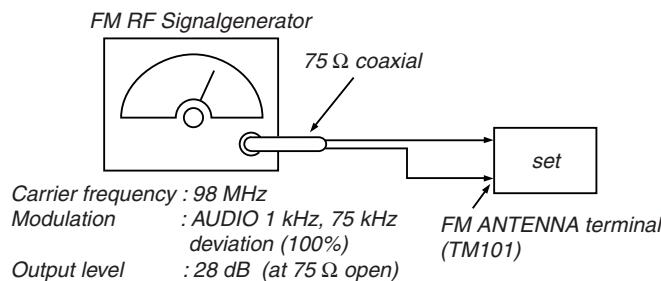
* elect either VIDEO or MD of the external FUNCTION input.

Procedure:

1. Turn on the power.
2. Press the two buttons [MD (VIDEO)] and [] at the same time.
The main power is turned on and the other function of the previous function is selected and displayed. "MD" or "VIDEO".

SECTION 5 ELECTRICAL ADJUSTMENTS

FM Tuned Level Adjustment

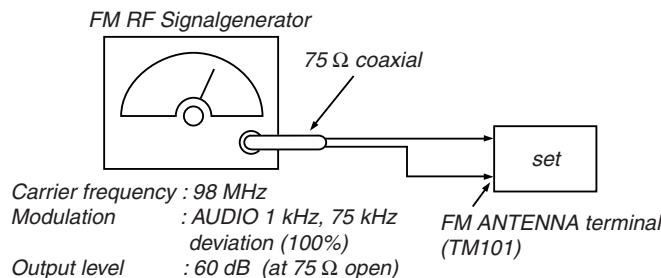


Procedure:

1. Supply a 98 MHz signal at 28 dB from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Adjust RV101 to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location: MAIN board

Null Adjustment



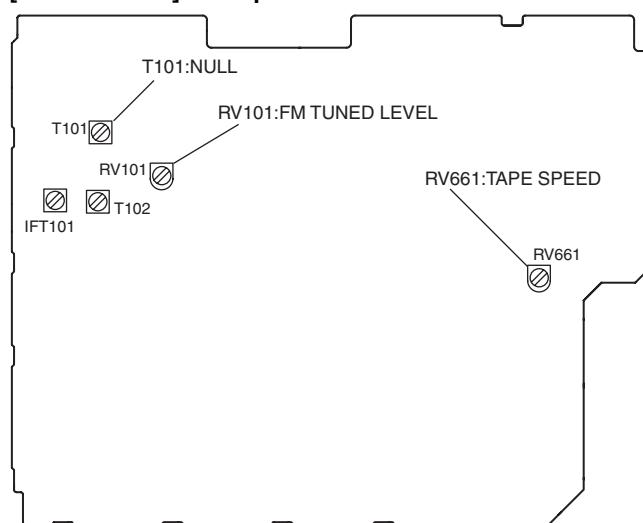
Procedure:

1. Supply a 98 MHz signal at 60 dB from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Measure voltage between pin 21 and pin 23 of IC 101. Adjust T101 until the voltage becomes 0 V.

Adjustment Location: MAIN board

Adjustment Location

[MAIN BOARD] Component side

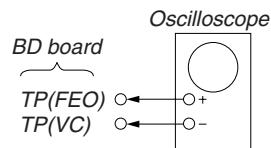


CD SECTION

Note :

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) 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.

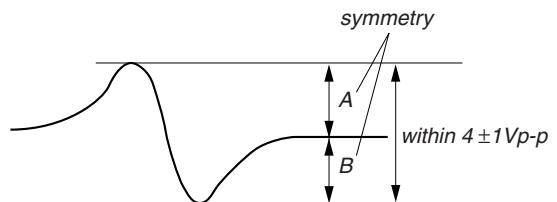
S-Curve Check



Procedure :

1. Connect oscilloscope to TP (FEO).
2. Connect between TP (FEI) and TP (VC) by lead wire.
3. Connect between TP (AGCCON) and TP (D GND) by lead wire.
4. Turn Power switch on.
5. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
6. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 4 ± 1 Vp-p.

S-curve waveform

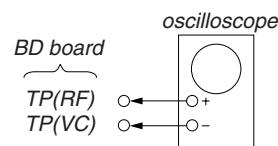


7. After check, remove the lead wire connected in step 2 and 3.

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



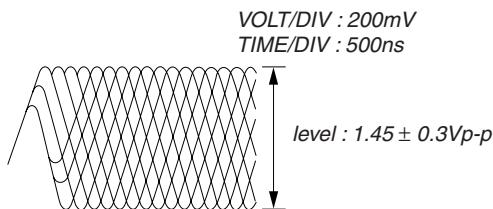
Procedure :

1. Connect oscilloscope to TP (RF).
2. Connect between TP (AGCCON) and TP (D GND) by lead wire.
3. Turned Power switch on.
4. Load a disc (YEDS-18) and playback.
5. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.
6. After check, remove the lead wire connected in step 2.

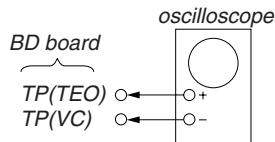
HCD-DX30/RG40

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

RF signal waveform



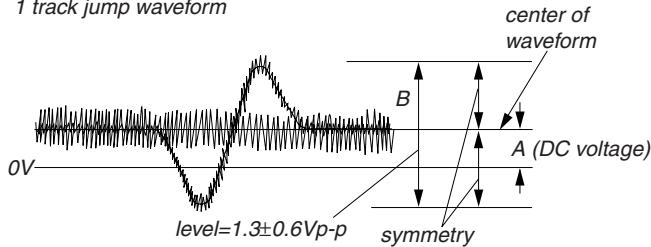
E-F Balance (1 Track jump) Check



Procedure :

1. Connect oscilloscope to TP (TEO) and TP (VC).
2. Turned Power switch on.
3. Load a disc (YEDS-18) and playback the number five track.
4. Press the button. (Becomes the 1 track jump mode.)
5. Confirm that the level B and A (DC voltage) on the oscilloscope waveform.

1 track jump waveform



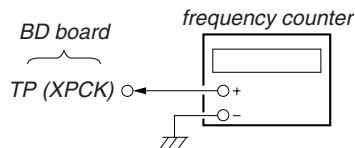
$$\text{Specified level: } \frac{A}{B} \times 100 = \text{less than } \pm 22\%$$

6. After check, remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

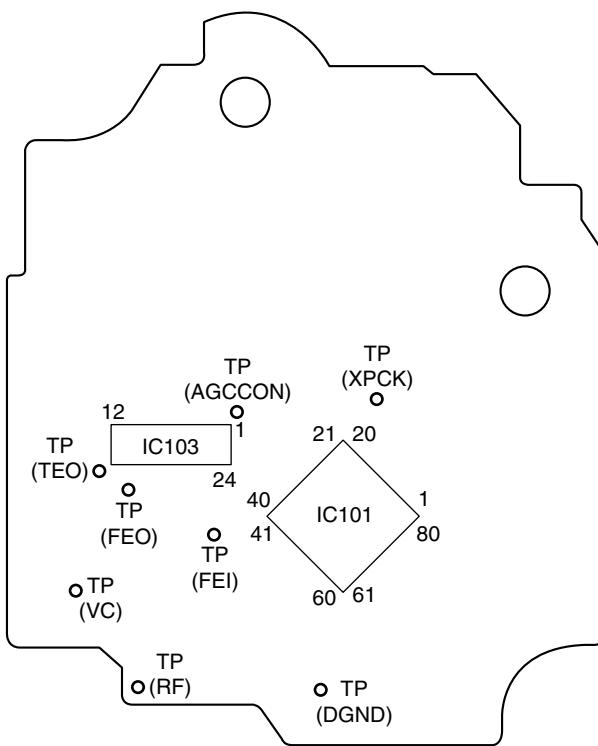
1. Connect frequency counter to test point (XPCK) with lead wire.



2. Turned Power switch on.
3. Put the disc (YEDS-18) in to play the number five track.
Confirm that reading on frequency counter is 4.3218MHz.

Adjustment Location:

[BD BOARD] (Conductor Side)



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 $1/4\text{W}$ 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.

no mark : FM

() : CD

[] : TAPE

- 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)

 : CD

 : digital out

- Abbreviation

CND : Canadian model

AUS : Australian model

SP : Singapore model

KR : Korea model

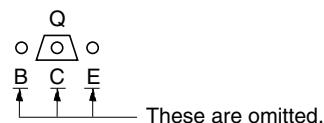
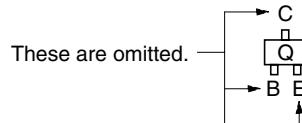
MX : Mexican model

AR : Argentina model

TH : Thai model

Note on Printed Wiring Boards:

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



Abbreviation

CND : Canadian model

AUS : Australian model

SP : Singapore model

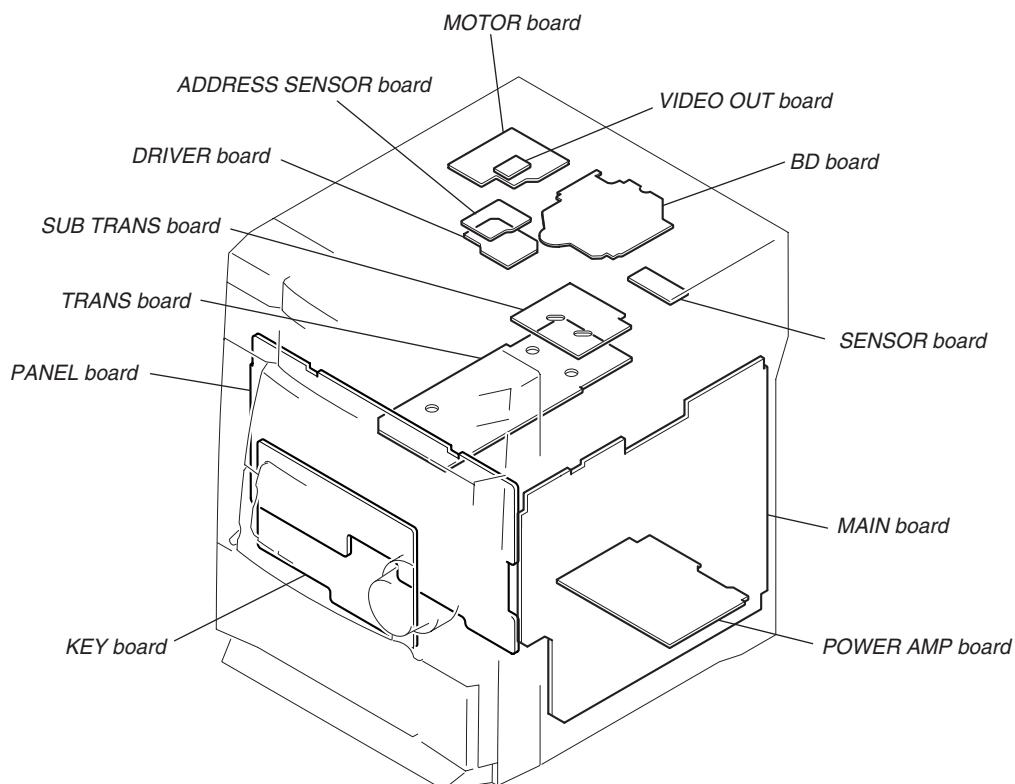
KR : Korea model

MX : Mexican model

AR : Argentina model

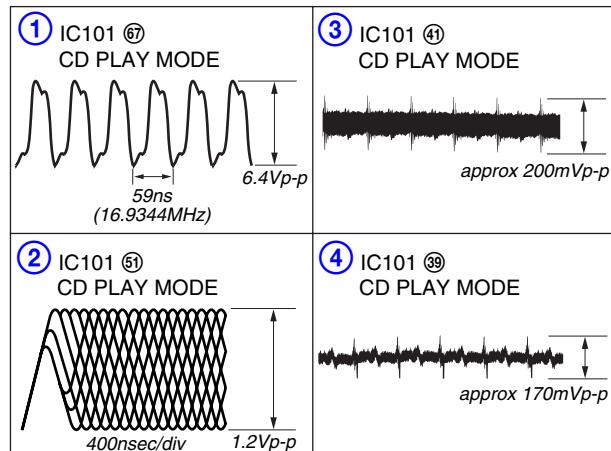
TH : Thai model

6-1. CIRCUIT BOARD LOCATION

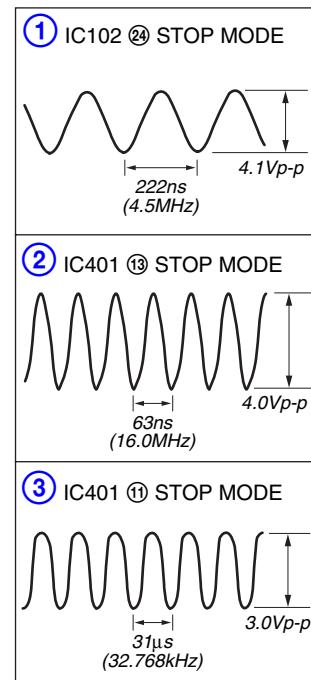


• WAVEFORMS

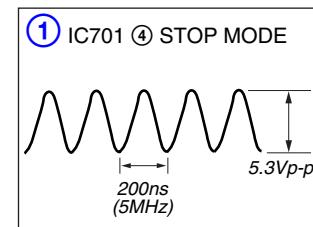
- BD BOARD -



- MAIN BOARD -

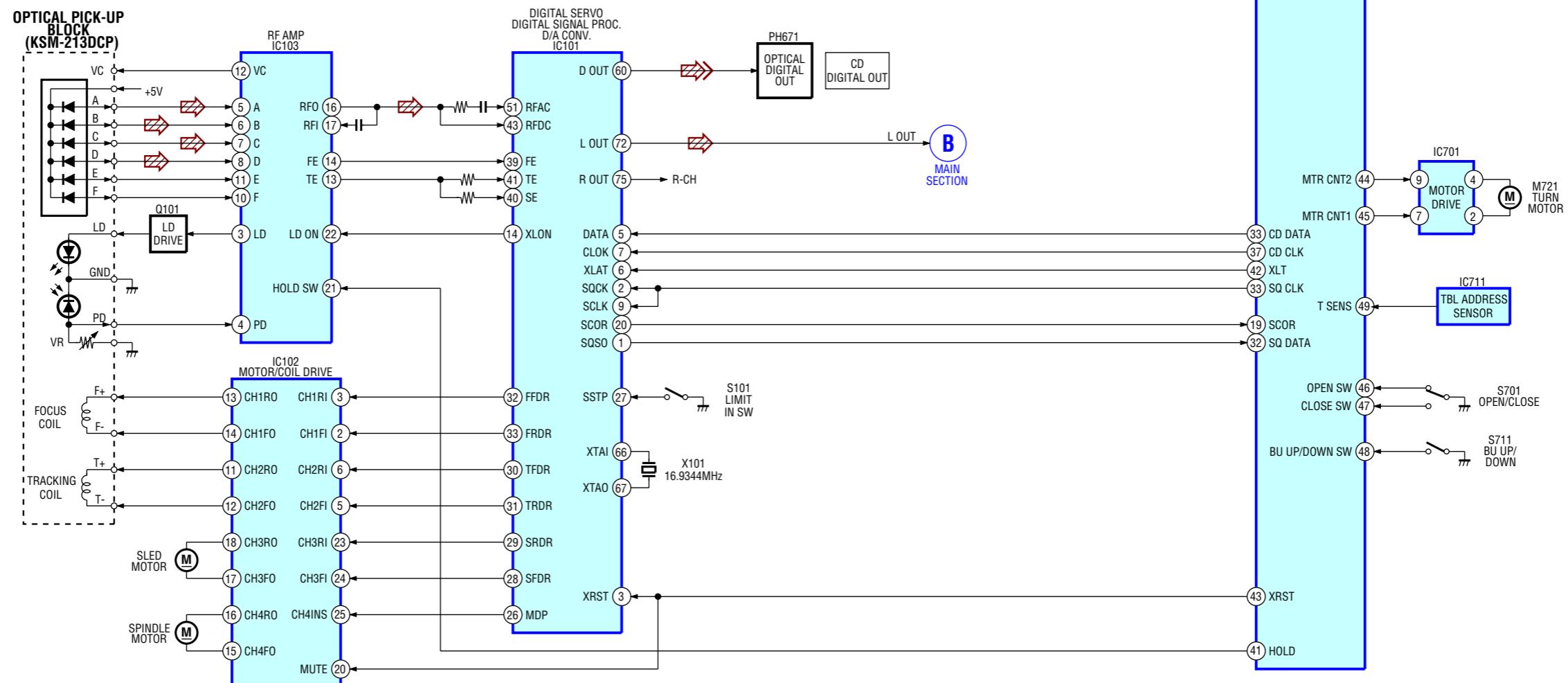
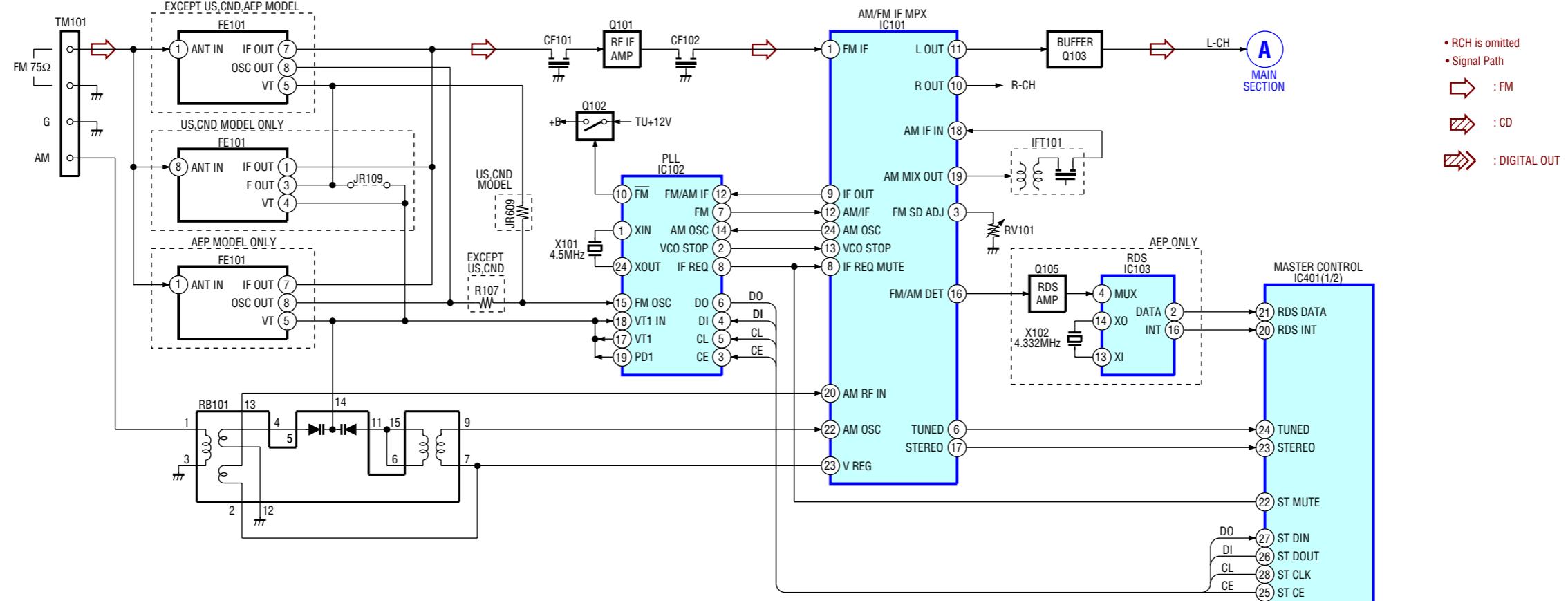


- PANEL BOARD -

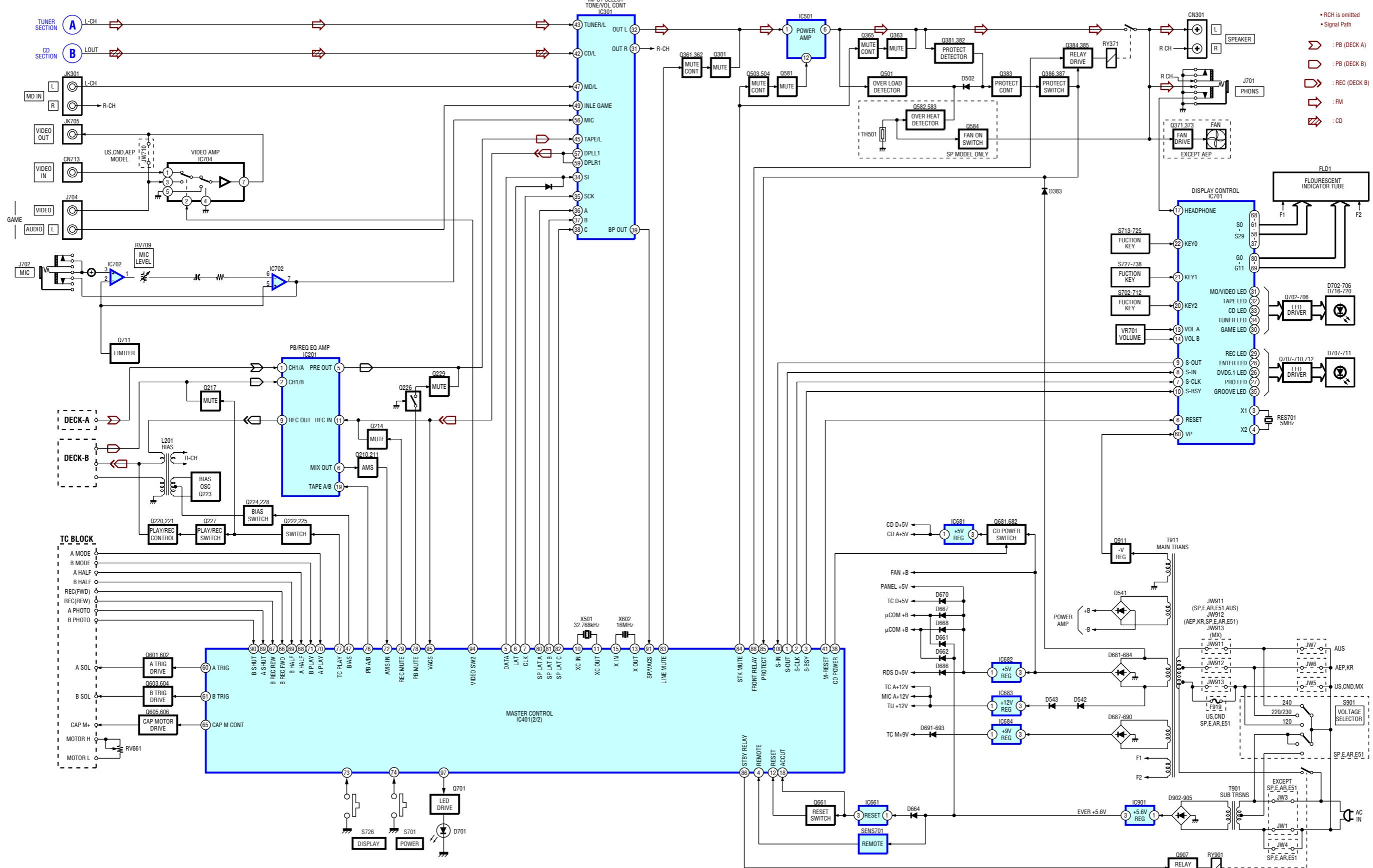


6-2. BLOCK DIAGRAMS

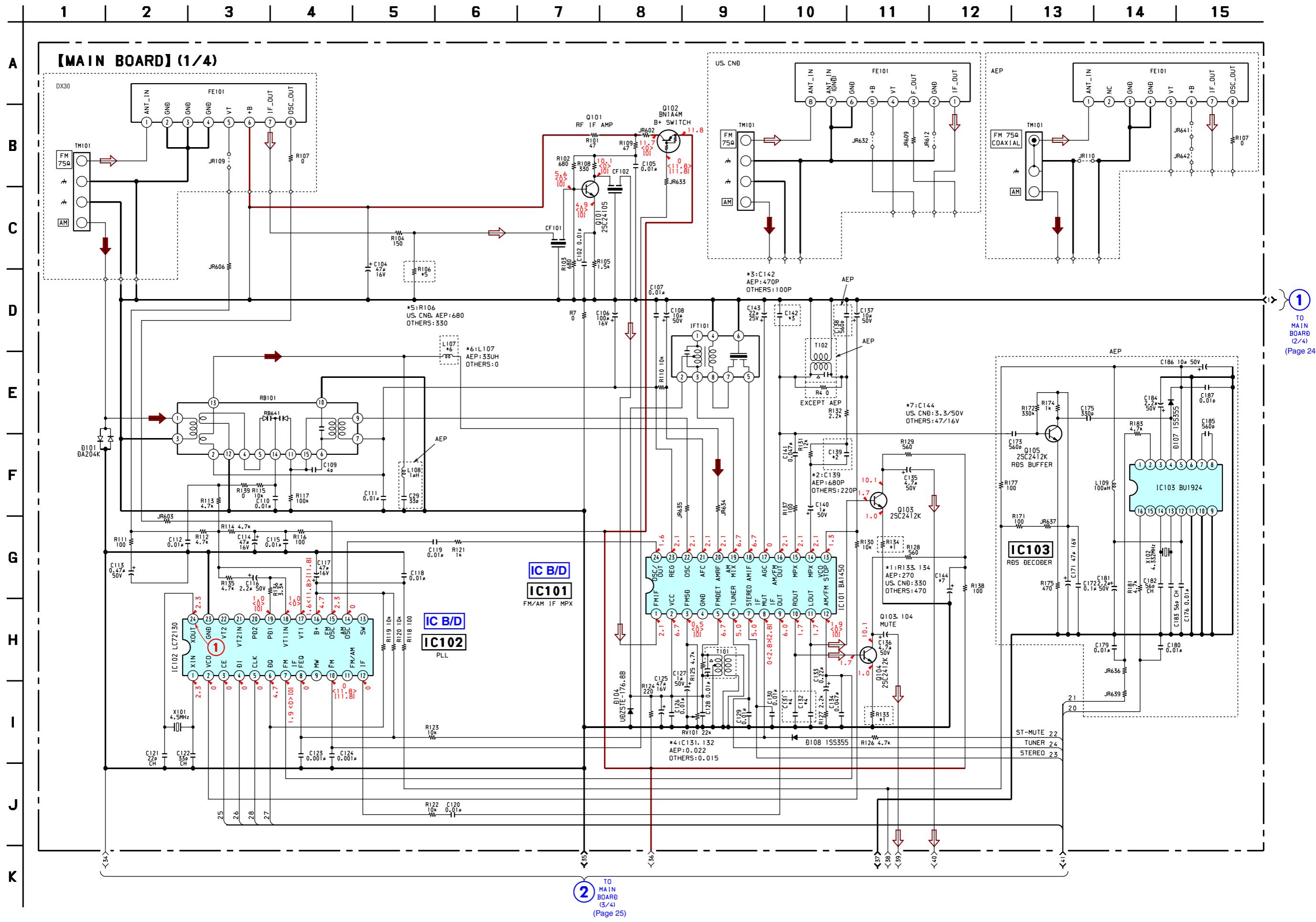
TUNER/CD SECTION



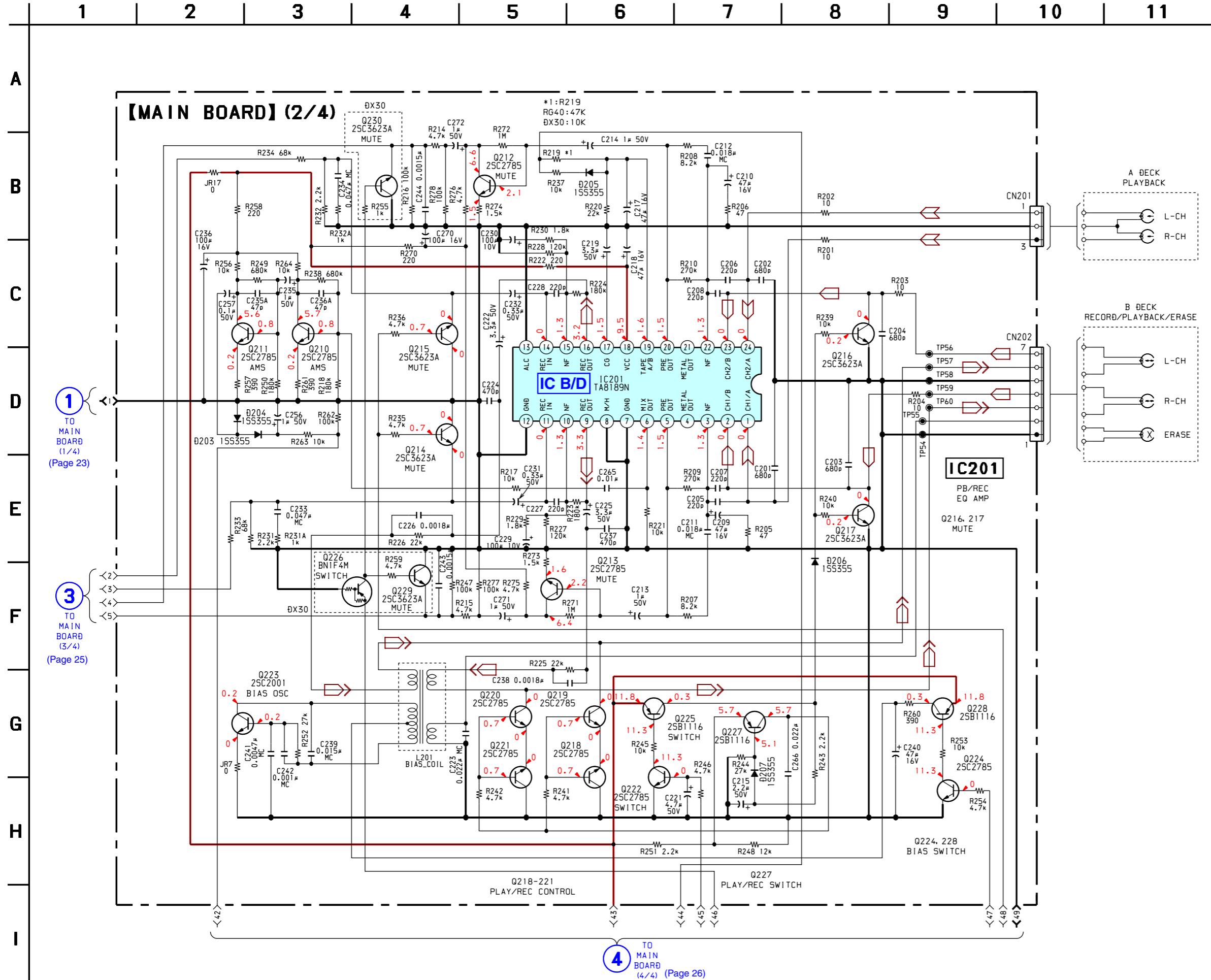
MAIN SECTION



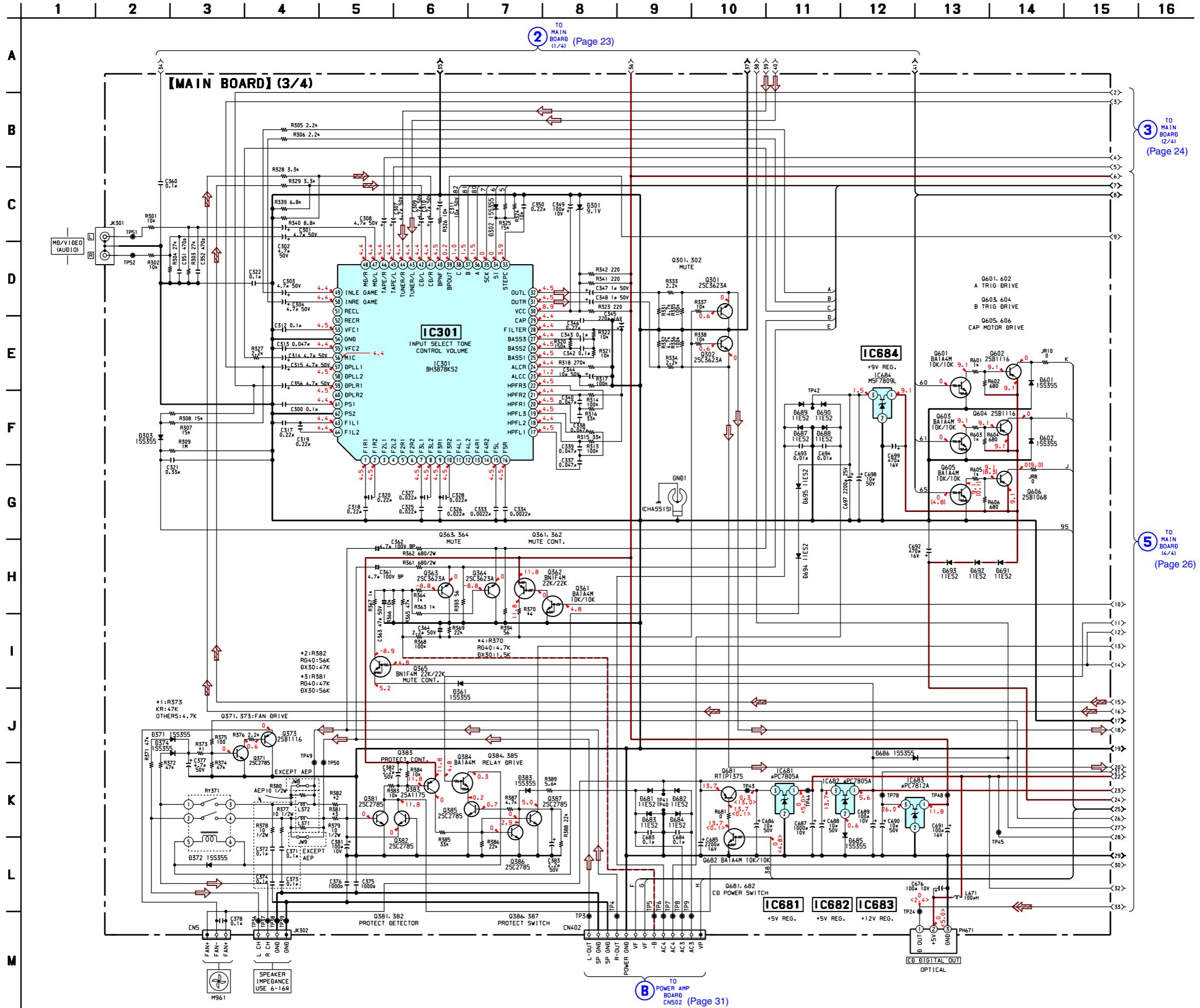
6-3. SCHEMATIC DIAGRAM MAIN SECTION (1/4) • See page 20 for Wavefoms. • See page 42 for IC Block Diagrams



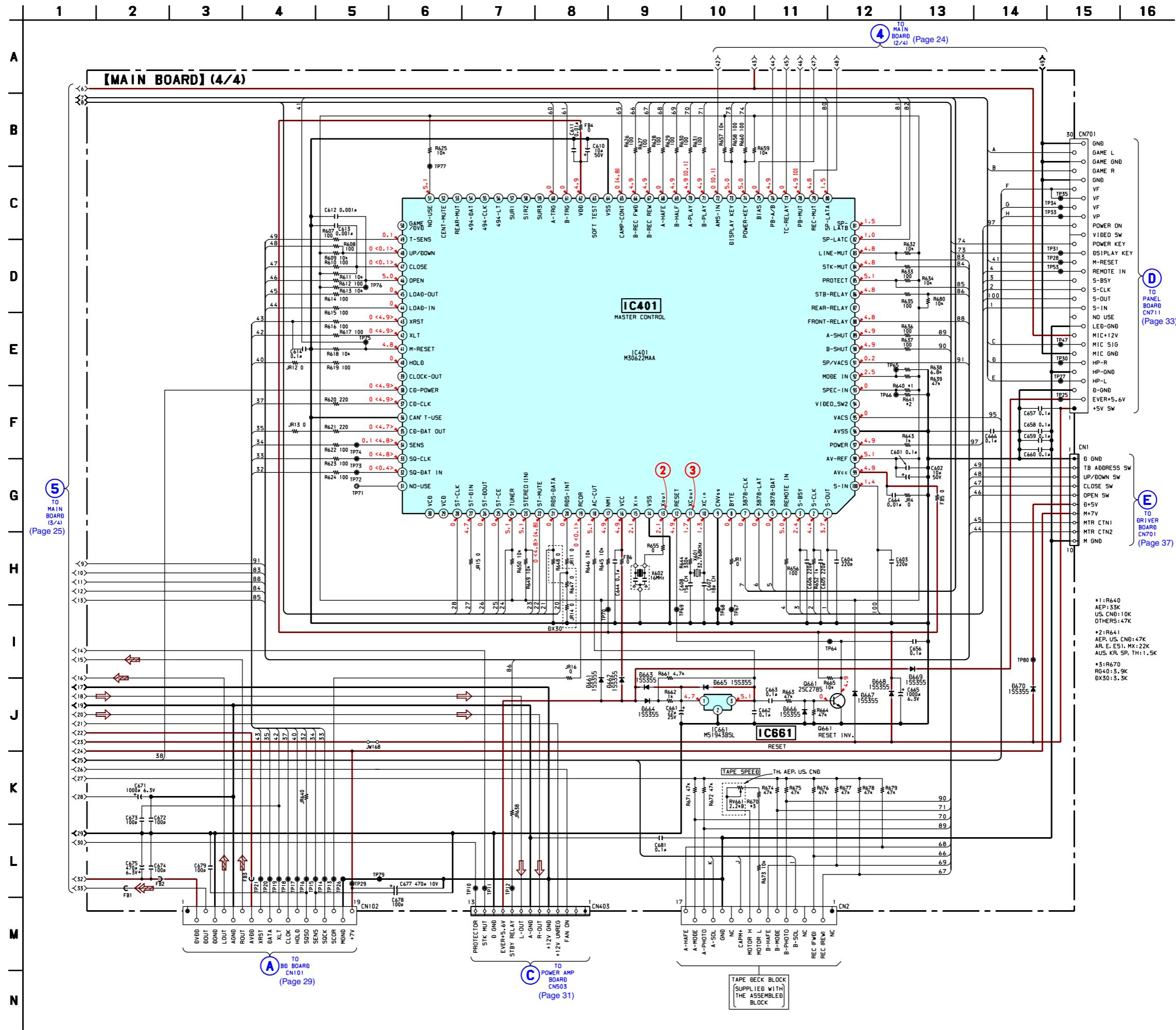
6-4. SCHEMATIC DIAGRAM MAIN SECTION (2/4) • See page 43 for IC Block Diagrams.



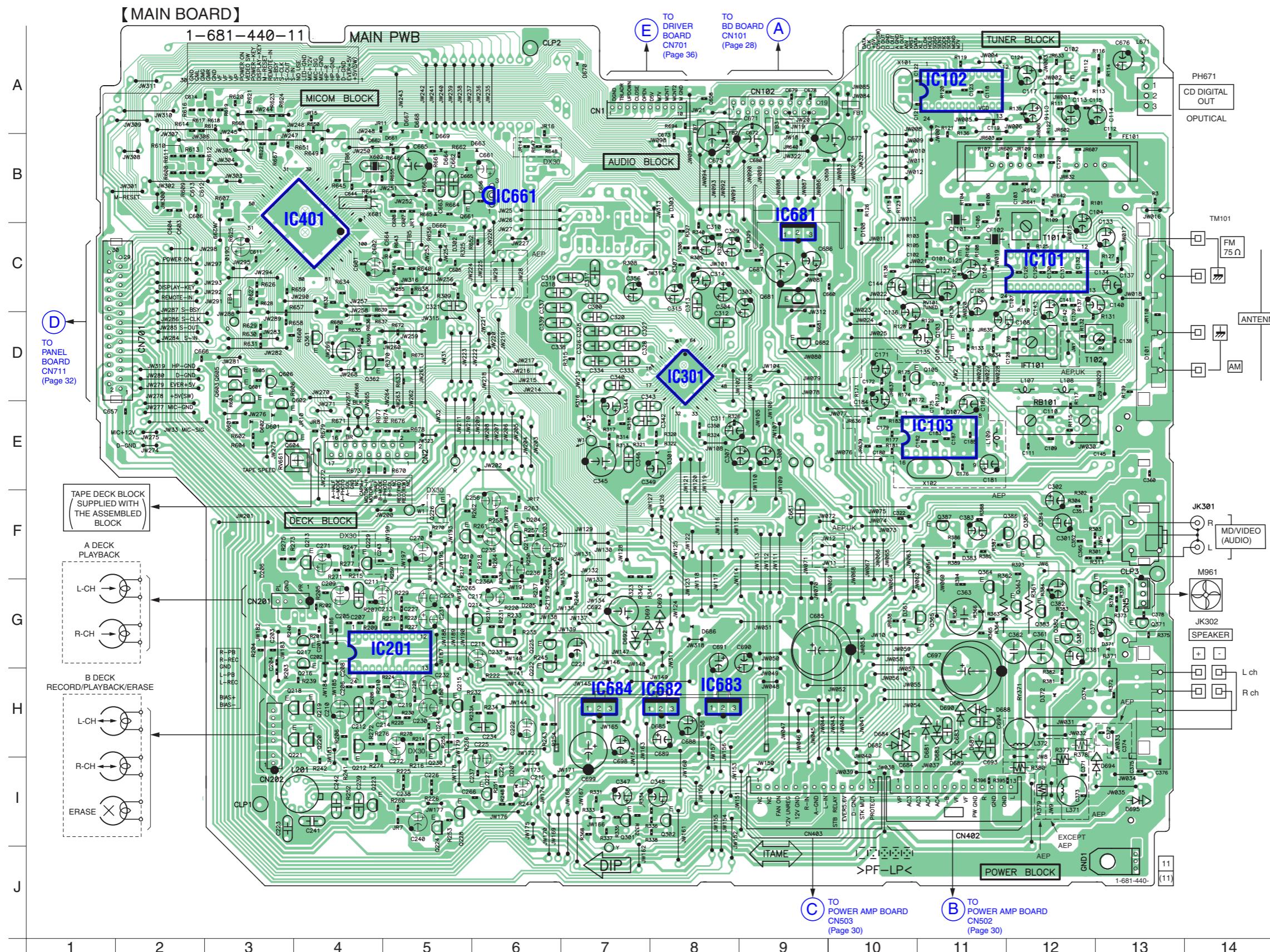
6-5. SCHEMATIC DIAGRAM MAIN SECTION (3/4)



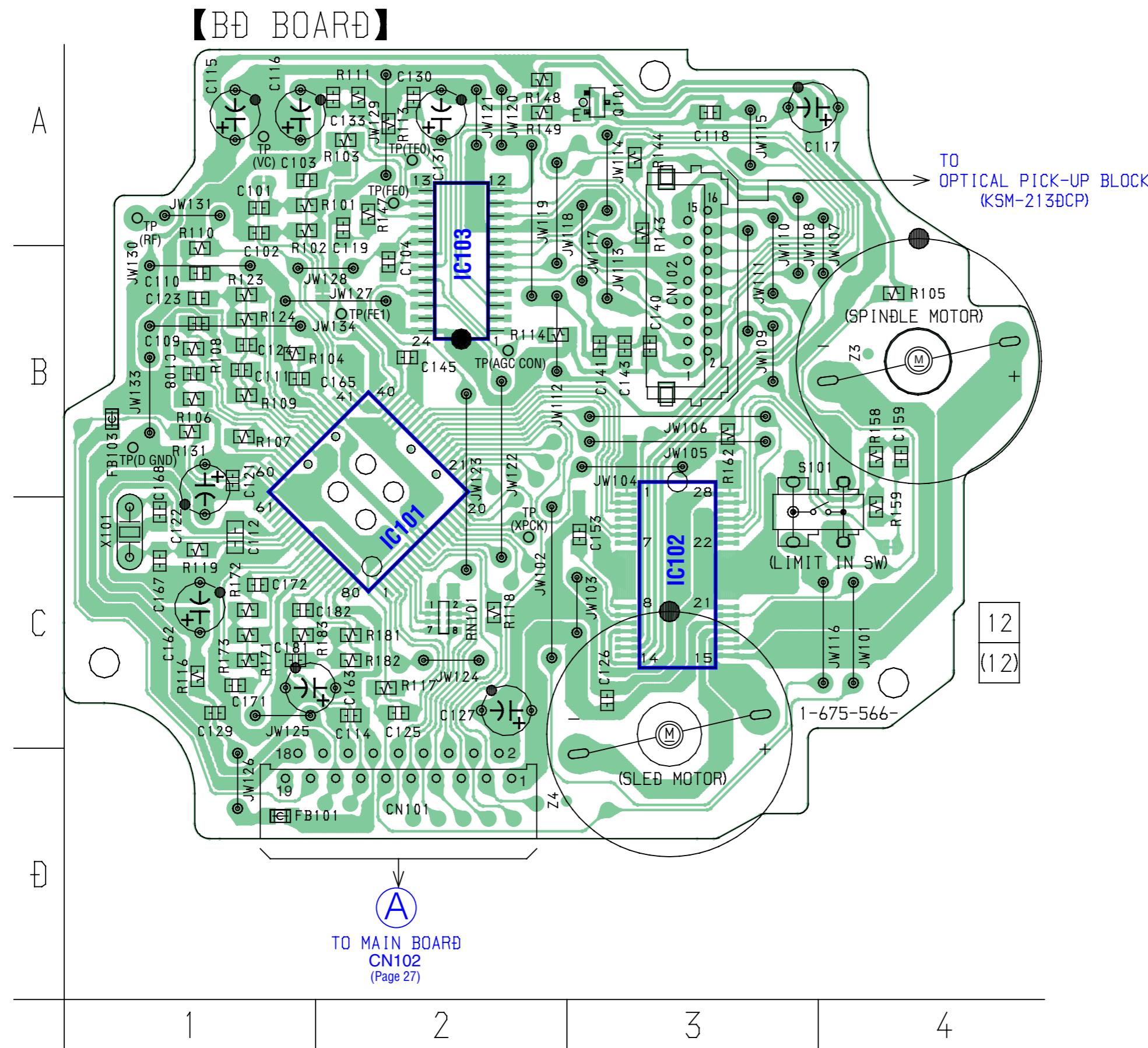
6-6. SCHEMATIC DIAGRAM MAIN SECTION (4/4) • See page 20 for Waveforms. • See page 40 for IC Pin Function Description



6-7. PRINTED WIRING BOARD MAIN SECTION • See page 20 for Circuit Boards Location.



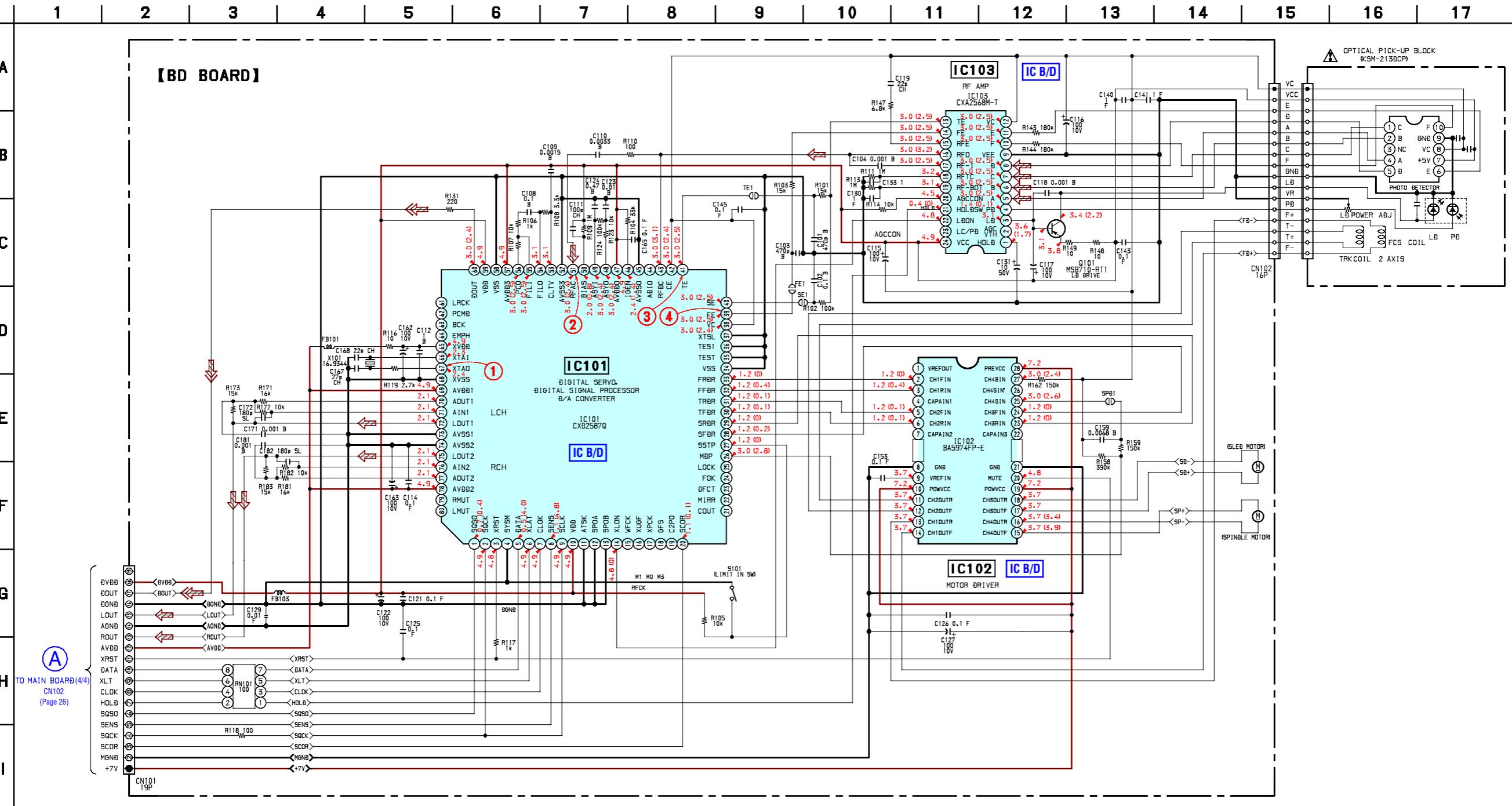
6-8. PRINTED WIRING BOARD BD SECTION



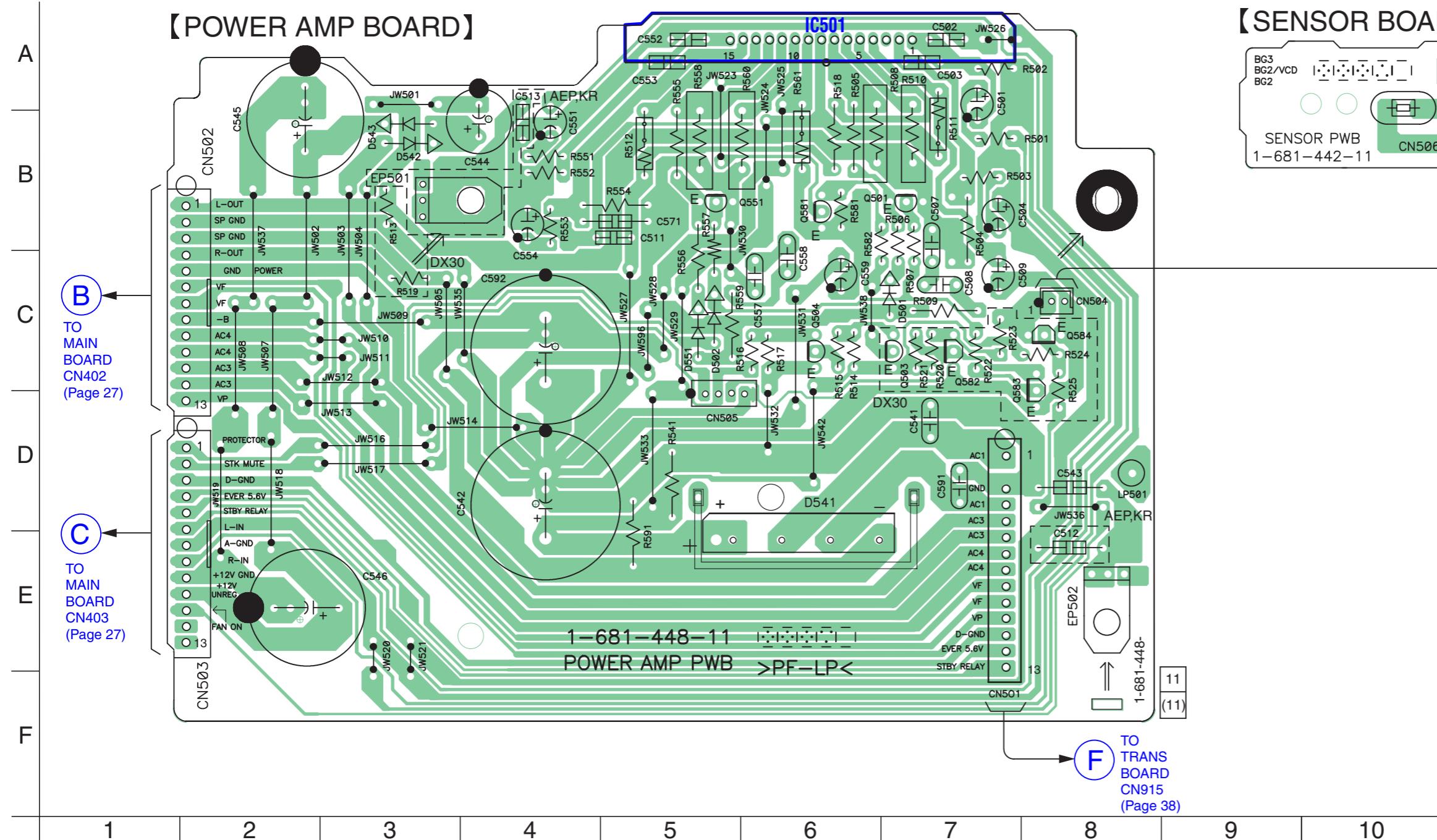
- Semiconductor Location

Ref. No.	Location
IC101	B-2
IC102	C-3
IC103	B-2
Q101	A3

6-9. SCHEMATIC DIAGRAM BD SECTION • See page 20 for Wavefoms. • See page 43, 44 for IC Block Diagrams.

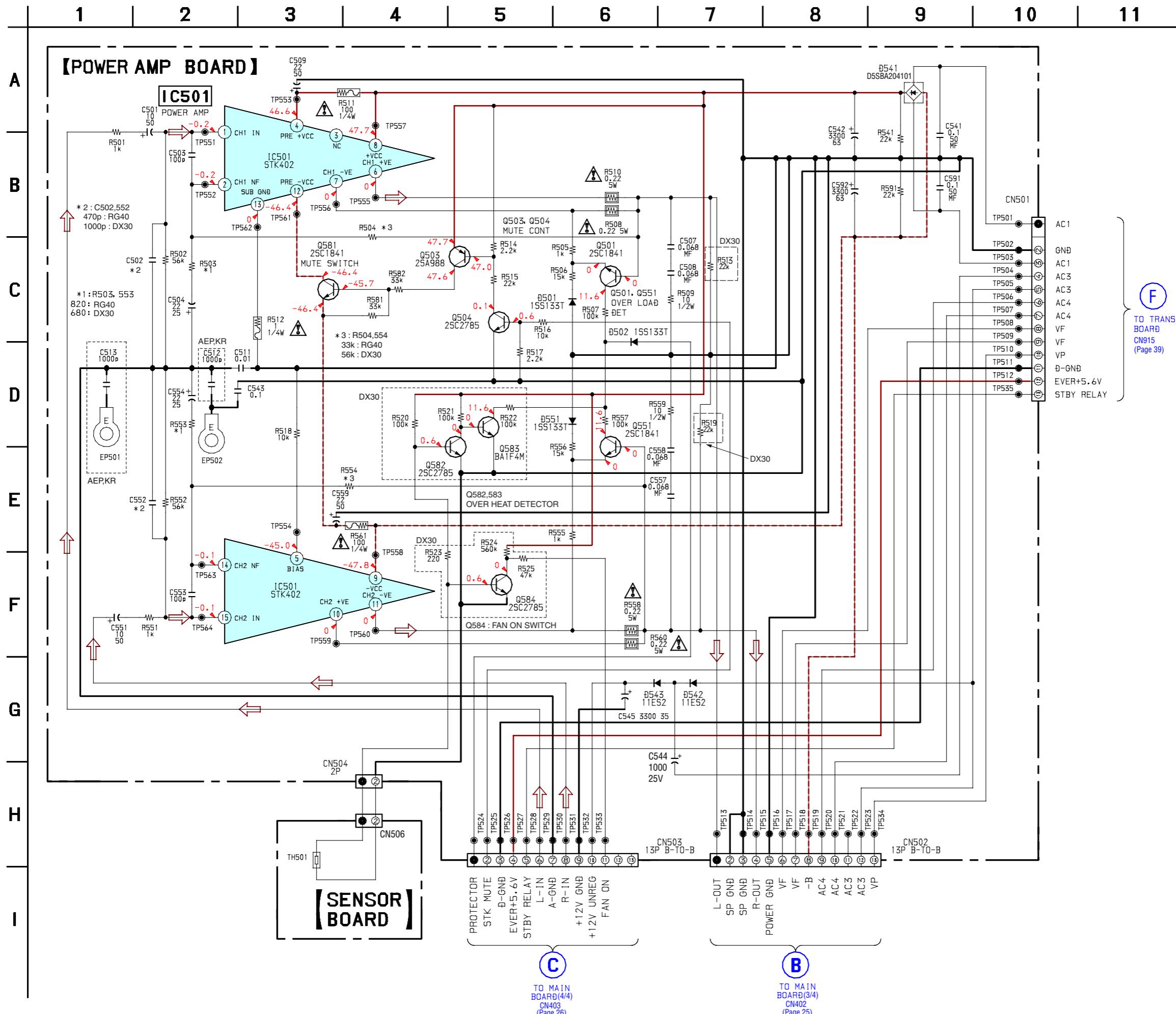


6-10. PRINTED WIRING BOARD POWER AMP SECTION • See page 20 for Circuit Boards Location



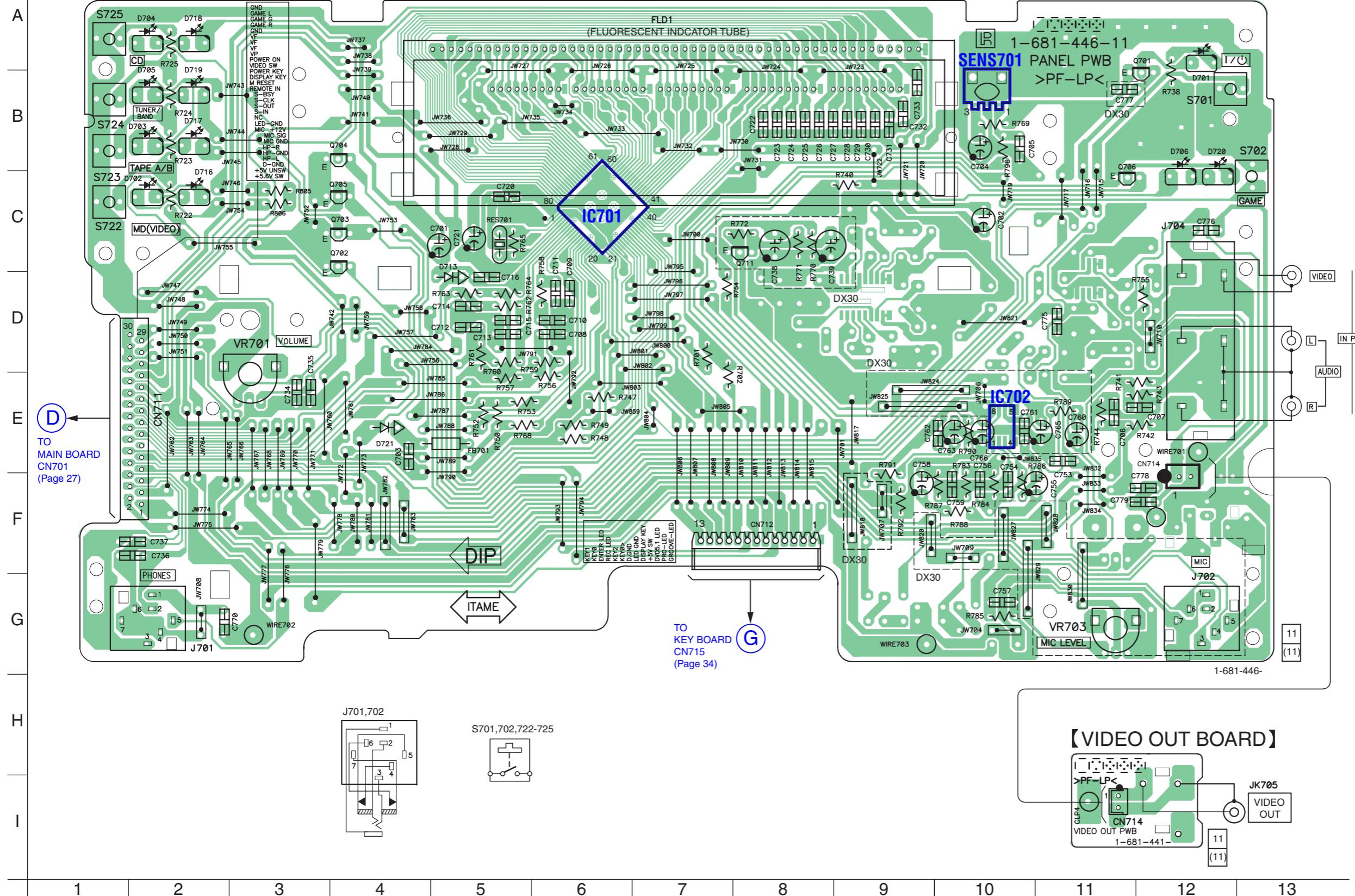
Semiconductor Location	
Ref. No.	Location
D501	C-7
D502	C-5
D541	D-6
D542	B-3
D543	B-3
D551	C-5
IC501	A-6
Q501	B-7
Q503	C-7
Q504	C-6
Q551	B-5
Q581	B-6
Q582	C-7
Q583	C-8
Q584	C-8

6-11. SCHEMATIC DIAGRAM POWER AMP SECTION



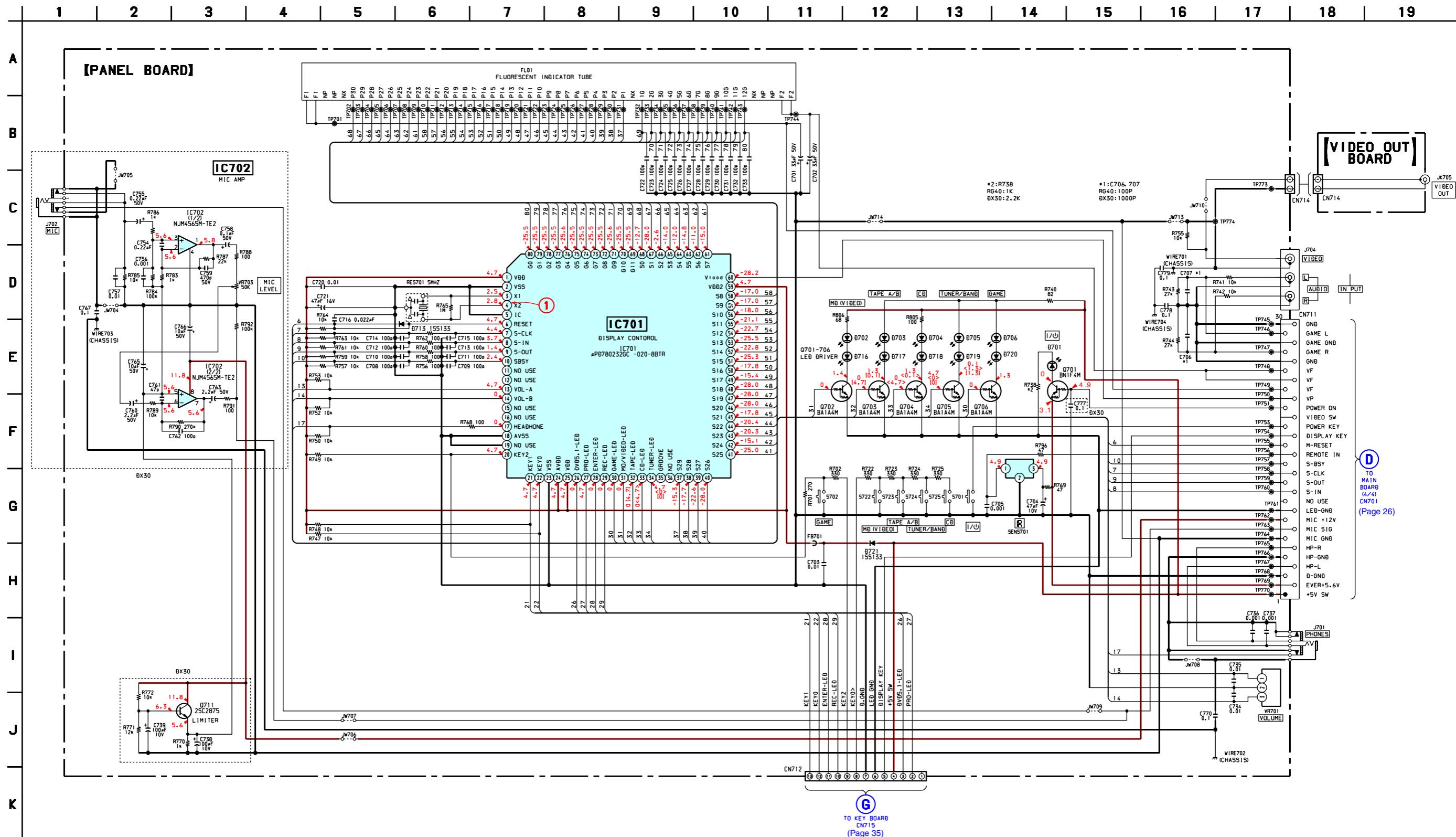
6-12. PRINTED WIRING BOARD PANEL SECTION • See page 20 for Circuit Boards Location.

【PANEL BOARD】

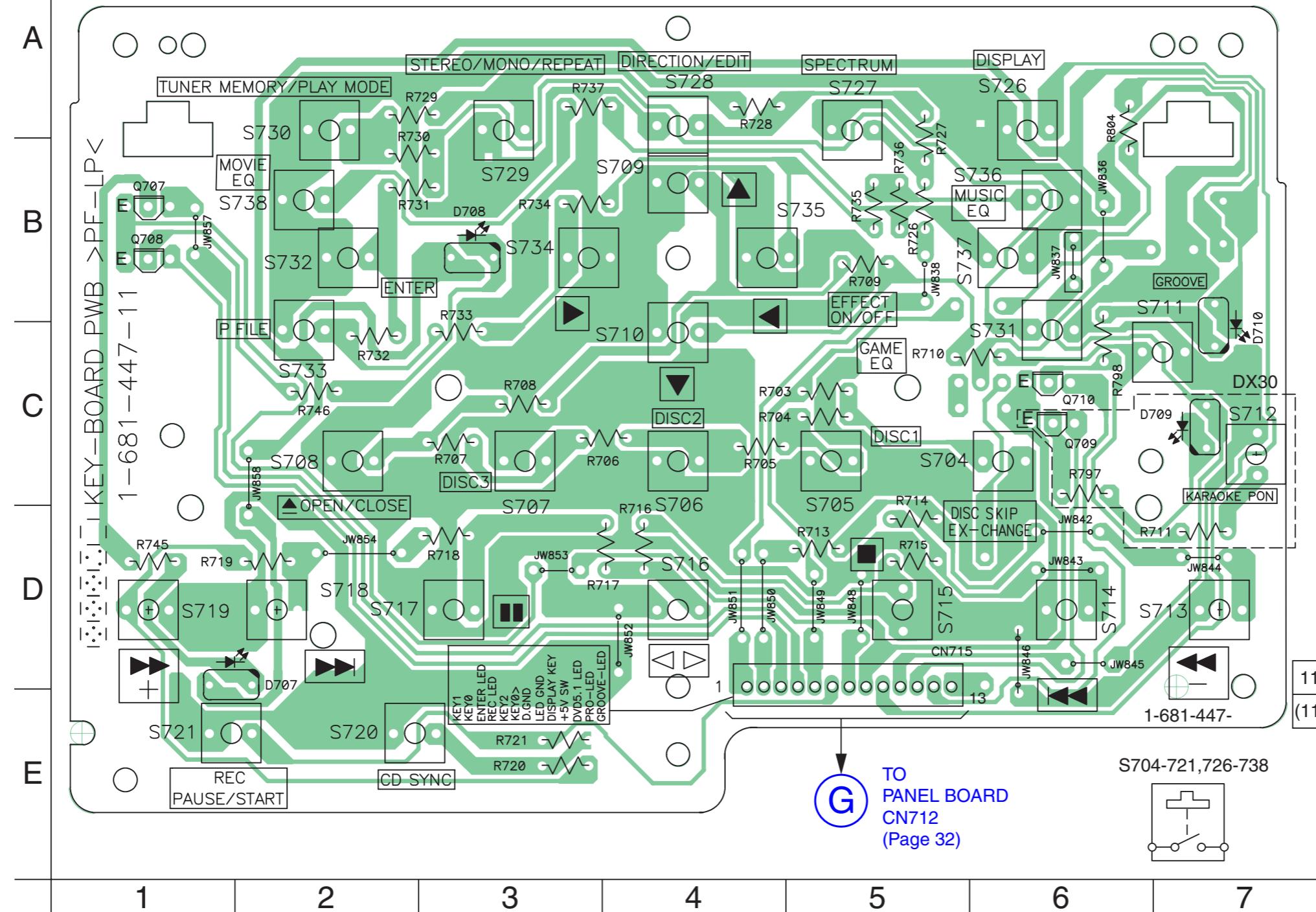


• Semiconductor Location

6-13. SCHEMATIC DIAGRAM PANEL SECTION • See page 20 for Wavefoms. • See page 41 for IC Pin Function Description.

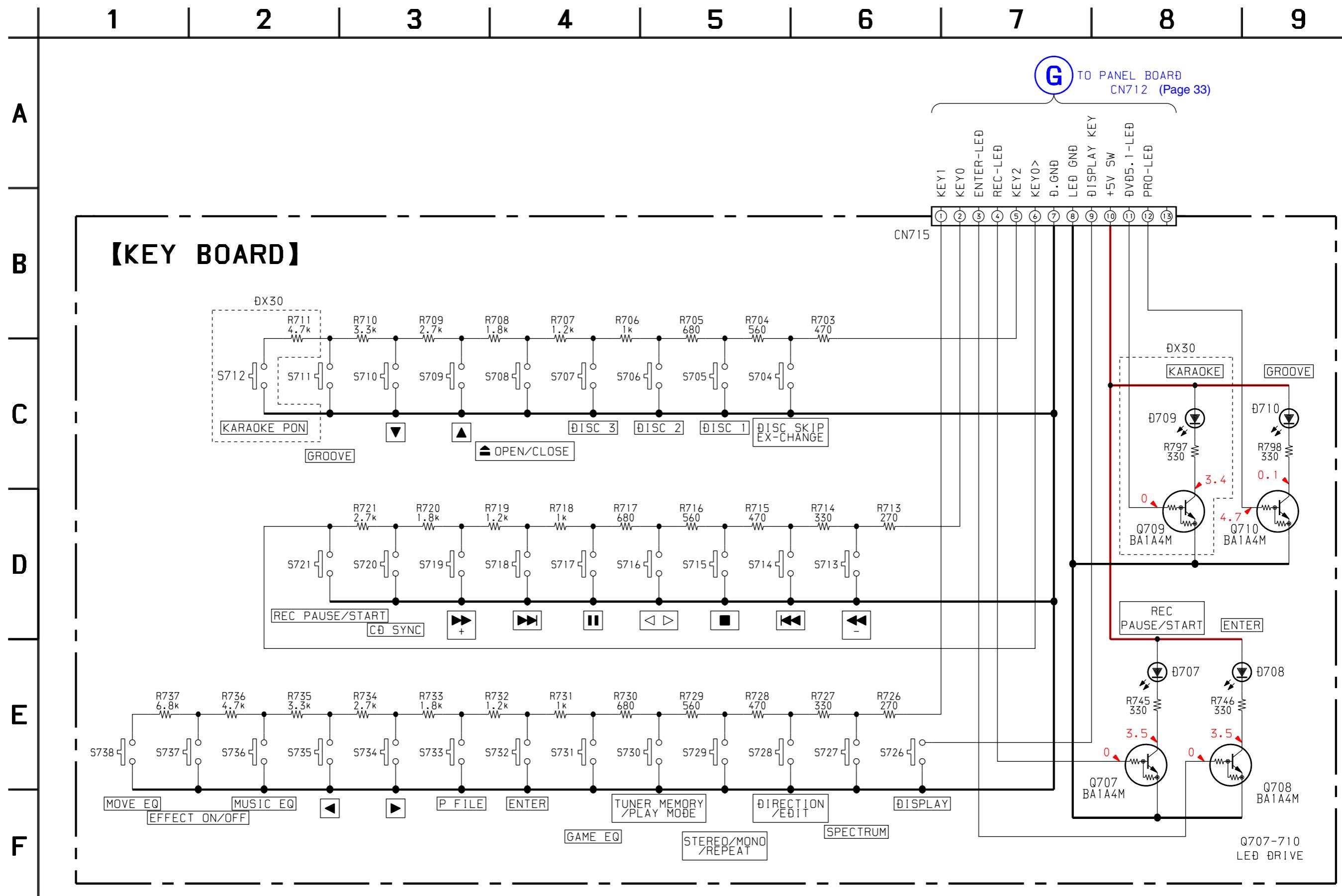


KEY BOARD

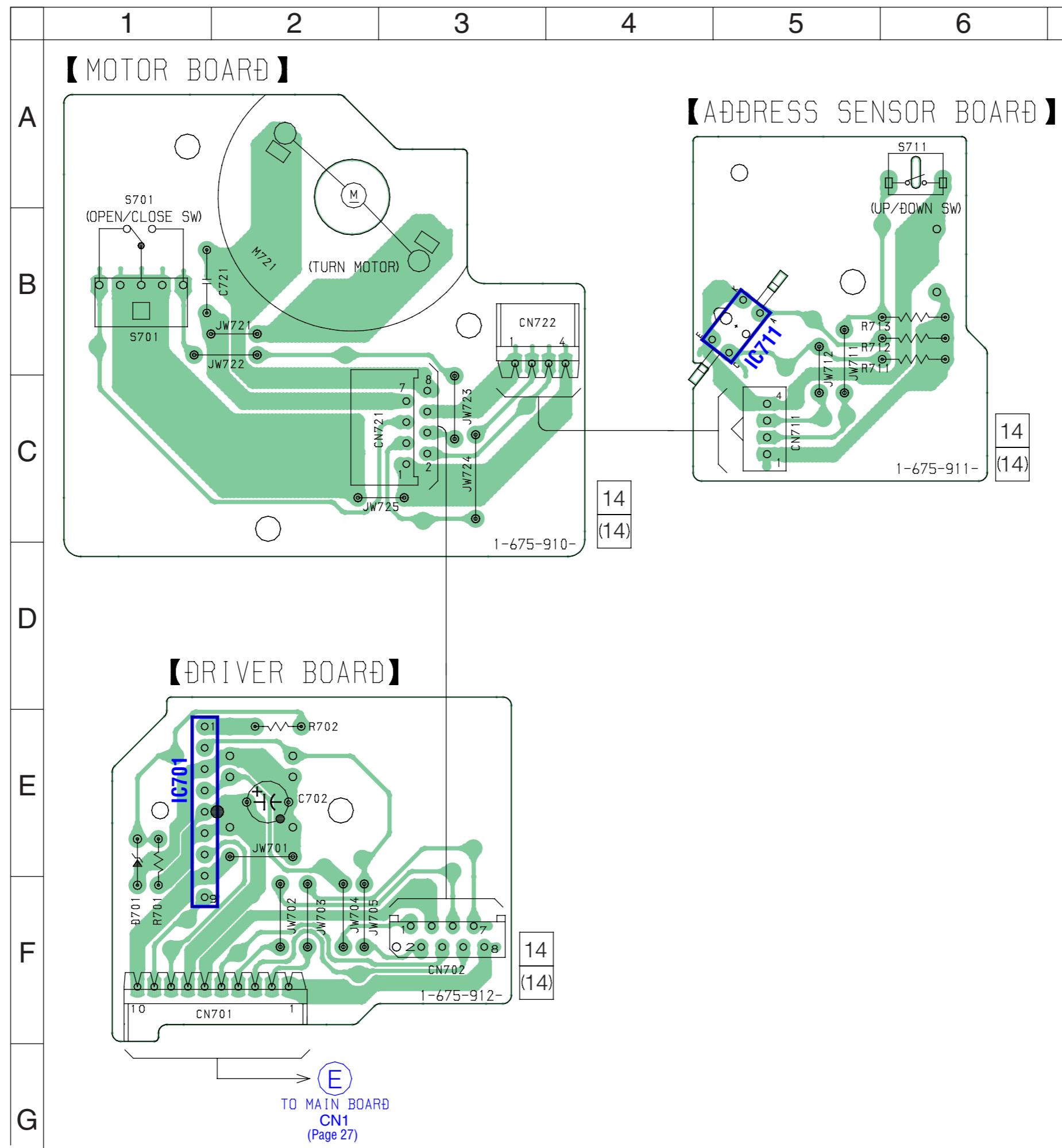


Semiconductor Location	
Ref. No.	Location
D707	D-1
D708	B-3
D709	C-7
D710	B-7
Q707	B-1
Q708	B-1
Q709	C-6
Q710	C-6

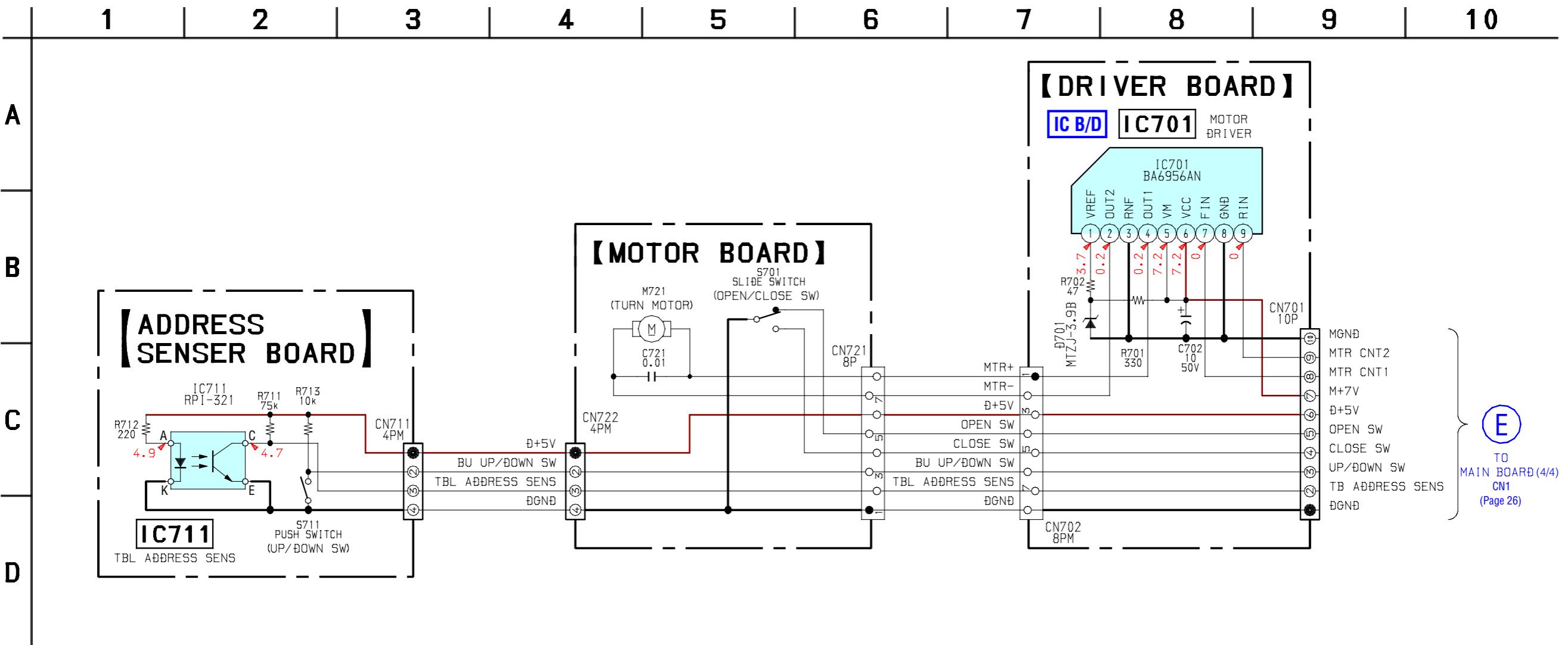
6-15. SCHEMATIC DIAGRAM KEY SECTION



6-16. PRINTED WIRING BOARD DRIVER SECTION • See page 20 for Circuit Boards Location.

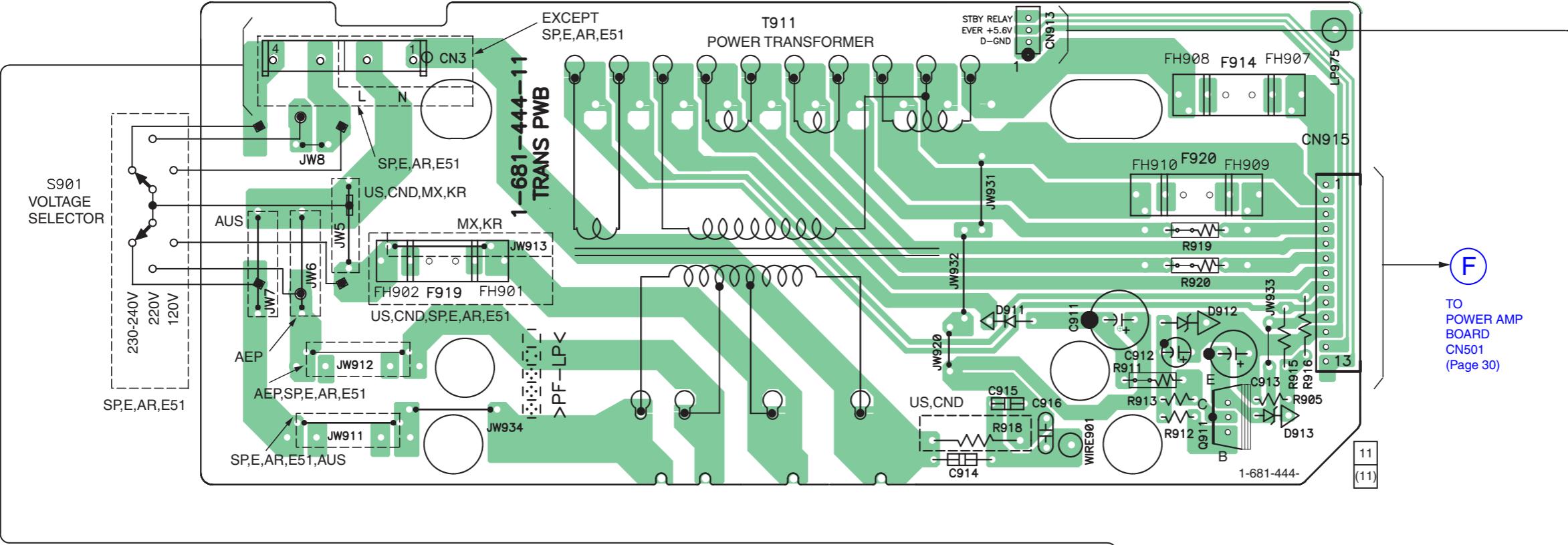


6-17. SCHEMATIC DIAGRAM DRIVER SECTION • See page 43 for IC Block Diagrams

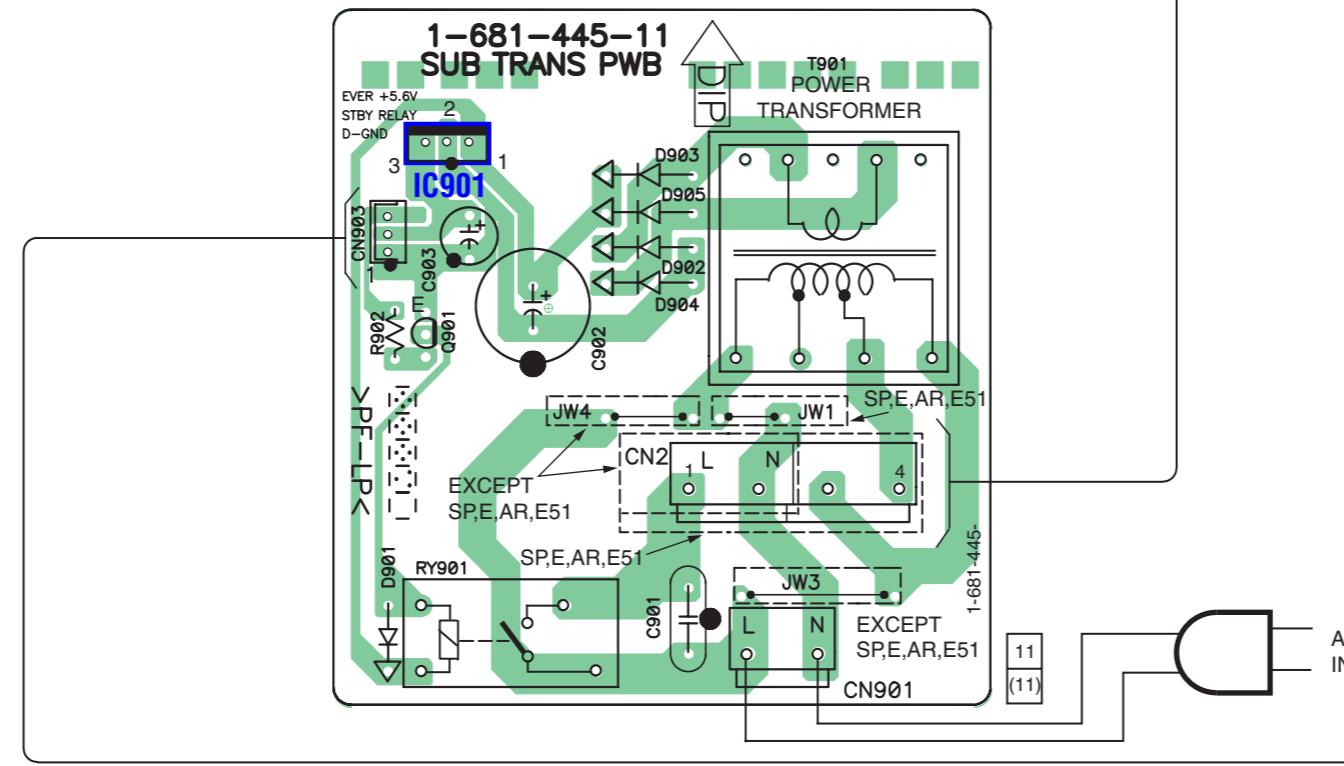


6-18. PRINTED WIRING BOARD TRANS SECTION • See page 20 for Circuit Boards Location.

【TRANS BOARD】

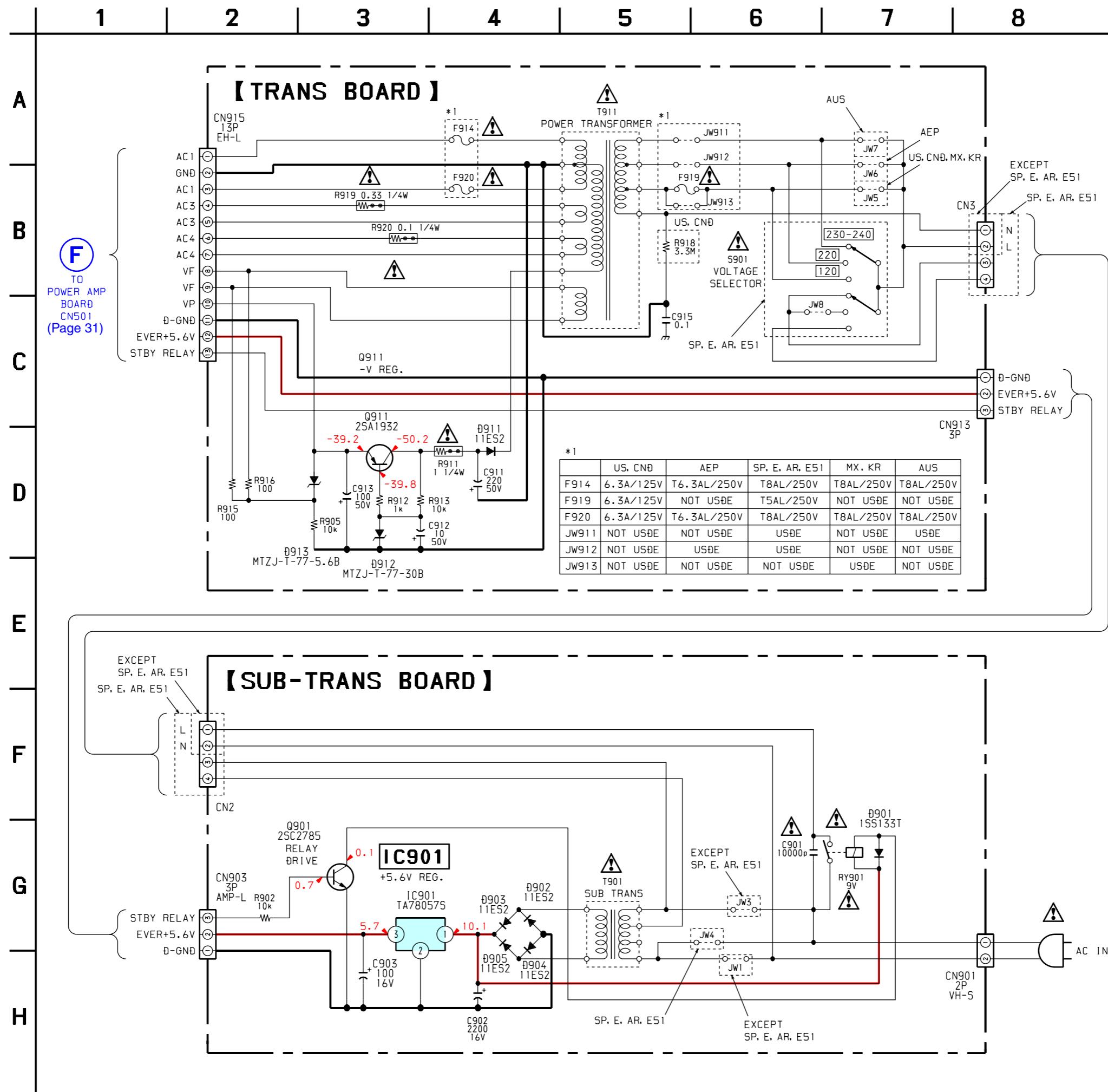
A
B
C
D
E
F
G
H
I

【SUB TRANS BOARD】



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

6-19. SCHEMATIC DIAGRAM TRANS SECTION



6-20. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC401 M30622MCA-B23FP (MASTER CONTROL)

Pin No.	Pin Name	I/O	Description
1	S-OUT	O	Serial data output the display control.
2	S-CLK	O	Serial clock output from main controller.
3	S-BSY	I	Busy signal input from the display control. "L" : busy
4	REMOTE IN	I	Pemoto commander input.
5	3878-DAT	O	Data signal output for IC301(BH3878KS2)
6	3878-LAT	O	Latch signal output for IC301(BH3878KS2)
7	3848-CLK	O	Clock signal output for IC301(BH3878KS2)
8	BYTE	—	Connected to ground.
9	CN VSS	—	Connected to ground.
10	XC IN	I	SUB SYSTEM CLOCK input.(32.768MHz)
11	XC OUT	O	SUB SYSTEM CLOCK output.(32.768MHz)
12	RESET	I	System reset input.
13	X OUT	O	MAIN SYSTEM CLOCK output.(16MHz)
14	VSS	—	Connected to ground.
15	X IN	I	MAIN SYSTEM CLOCK input.(16MHz)
16	VCC	—	Power supply.(+5V)
17	NMI	I	PULL UP.(EVER+5V)
18	AC-CUT	I	AC CUT ON(L)/OF(H) CHECK.
19	RCOR	I	CD Q-data request signal input.
20	RDS-INT	I	RDS interrupt signal input.
21	RDS-DATA	I	RDS data signal input.
22	ST-MUTE	O	Tuner mute signal output.
23	SSTEREO(IN)	I	STEREO detect signal input.L=ON,H=OFF
24	TUNER	I	TUNER detect signal input.L=ON,H=OFF
25	ST-CE	O	TUNER chip eneble output.
26	ST-DOUT	O	TUNER data output.
27	ST-DIN	I	TUNER data input.
28	ST-CLK	O	TUNER clock signal output.
29	VCD	—	Not used.
30	VCD	—	Not used.
31	NO USE	—	Not used.
32	SQ-DAT IN	I	Subcode Q data input(CD data).
33	SQ-CLK	I	Subcode Q data input(CD clock).
34	SENS	I	BD condition signal input.
35	CD-DAT OUT	O	CD data output.
36	CAN'T-USE	—	Not used.
37	CD-CLK	O	CD clock output.
38	CD-POWER	O	CD-POWER ON/OFF signal output.H=ON,L=OFF
39	CLOCK-OUT	—	Not used.
40	HOLD	O	MODE signal input.
41	M-RESET	O	Micom reset signal output to the display control. "L" : reset
42	XLT	O	CD latch signal output.
43	XRST	O	CD reset signal output.
44	LOAD-IN	I	Loading motor control signal input.
45	LOAD-OUT	O	Loading motor control signal output.
46	OPEN	I	Tray open detect signal input.
47	CLOSE	I	Tray close detact signal input.
48	UP/DOWN	I	Pick-up up/down detect signal input.
49	T-SENS	I	CD table detect signal input.
50	GAME/DVD	—	Not used.

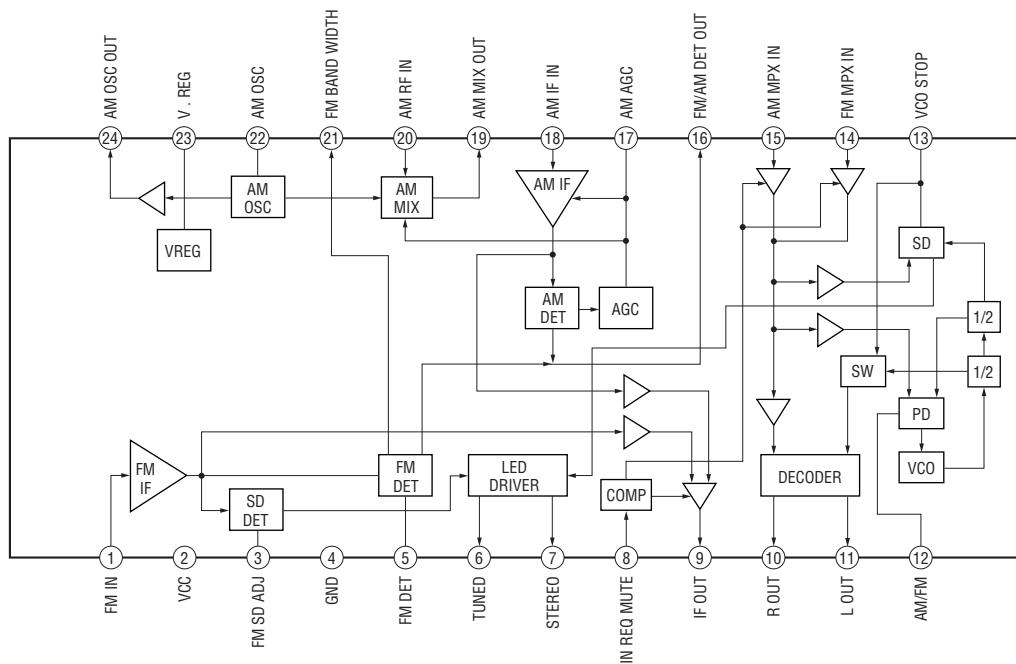
Pin No.	Pin Name	I/O	Description
51	NO USE	—	Not used.
52	CENT-MUTE	—	Not used.
53	REAR-MUT	—	Not used.
54	494-DAT	—	Not used.
55	494-CLK	—	Not used.
56	494-LT	—	Not used.
57	SUR1	—	Not used.
58	SUR2	—	Not used.
59	SUR3	—	Not used.
60	A-TRG	O	A deck trigger control signal output.H=ON,L=OFF
61	B-TRG	O	B deck trigger control signal output.H=ON,L=OFF
62	VDD	—	Power supply.(+5V)
63	SOFT TEST	—	Not used.
64	VSS	—	Connected to ground.
65	CAMP-CONT	O	Capstan motor REV/FWD/STOP control signal output.H=REV,L=FWD/STOP
66	B-REC FWD	I	Detection input from the deck-B rec forward detect switch. "L" : rec
67	B-REC REW	I	Detection input from the deck-B rec reverse detect switch. "L" : rec
68	A-HAFE	I	A deck hafe detect signal input.
69	B-HAFE	I	B deck hafe detect signal input.
70	A-PLAY	I	A deck play detect signal input.
71	B-PLAY	I	B deck play detect signal input.
72	AMS-IN	I	AMS signal input.L=ON,H=OFF
73	DISPLAY KEY	O	DISPLAY KEY control signal output.
74	POWER-KEY	O	POWER KEY control signal output.
75	BIAS	O	BIAS ON/OFF signal output.H=ON,L=OFF
76	PB-A/B	O	Playback deck A/B select signal output.H=High,L=Normal
77	TC-RELAY	O	Tape deck relay ON/OFF signal output.H=ON,L=OFF
78	PB-MUT	O	PB mute ON/OFF signal output .H=ON,L=OFF
79	REC-MUT	O	REC mute ON/OFF signal output .H=ON,L=OFF
80	SP-LATA	O	Serial data latch pulse output to BH3878KS2 (IC301)
81	SP-LATB	O	Serial data latch pulse output to BH3878KS2 (IC301)
82	SP-LATC	O	Serial data latch pulse output to BH3878KS2 (IC301)
83	LINE-MUT	O	Line mute signsl output.L=ON,H=OFF
84	STK-MUT	O	Power amplifier mute ON/OFF signal output.H=ON,L=OFF
85	PROTECT	I	Speaker protect signal input.L=ON,H=OFF
86	STB-RELAY	O	STANDBY relay control signal output.
87	REAR-RELAY	O	Rear speaker relay control output.
88	FRONT-RELAY	O	Front speaker relay control output.
89	A-SHUT	O	A deck reel pulse detect signal output.
90	B-SHUT	O	B deck reel pulse detect signal output.
91	SP/VACS		
92	MODE IN	I	MODEL
93	SPEC-IN	I	Version select signal input.
94	VIDEO SW2		
95	VACS		
96	AVSS	—	Connected to ground.
97	POWER-KEY	O	POWER ON/OFF signal output.H=ON,L=OFF
98	AV-REF	—	Analog reference voltage.
99	AVCC	—	Power supply.(+5V)
100	S-IN		

• **PANEL BOARD IC701 UPD780232GC-031-8BT (DISPLAY CONTROL)**

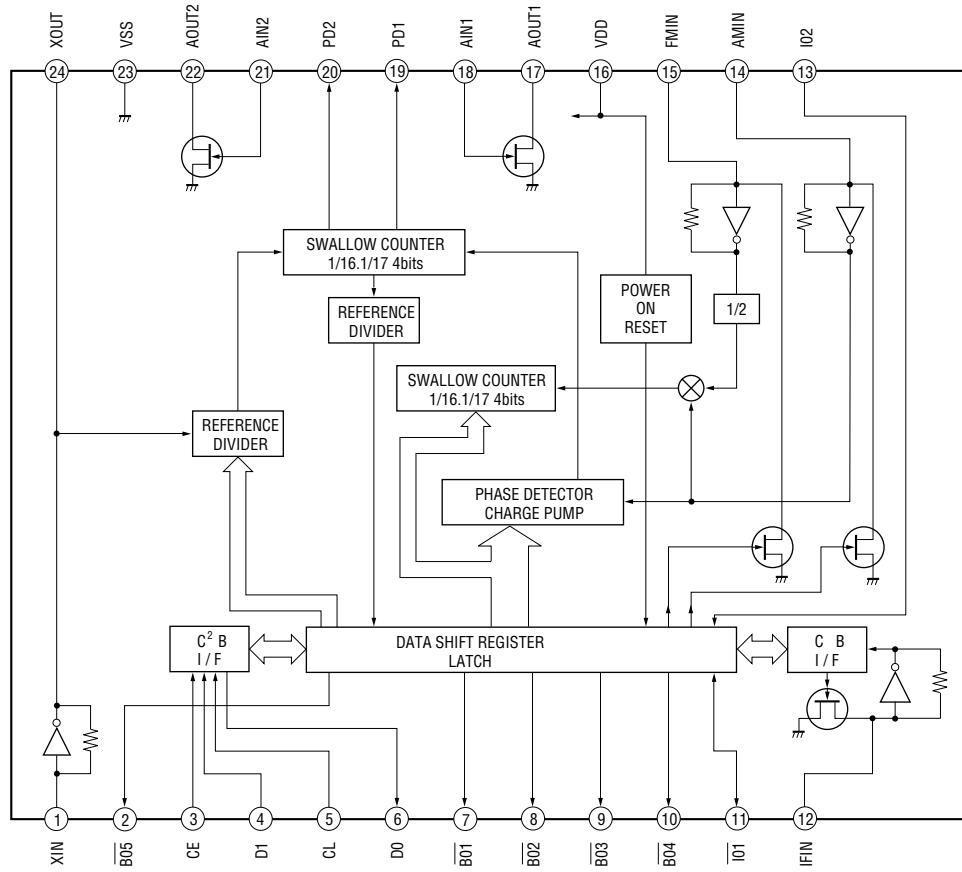
Pin No.	Pin Name	I/O	Description
1	VDD	—	Power supply.(+5V)
2	VSS	—	Connected to ground.
3	X1	O	System clock output terminal.(5MHz)
4	X2	I	System clock input terminal.(5MHz)
5	IC		
6	RESET	I	Reset signal input from main controller.
7	S-CLK	I	Serial clock input from main controller.
8	S-IN	I	
9	S-OUT	I	
10	SBSY		
11	NO USE	—	Not used.
12	NO USE	—	Not used.
13	VOL-A	I	VOLUME A signal input.
14	VOL-B	I	VOLUME B signal input.
15	NO USE	—	Not used.
16	NO USE	—	Not used.
17	HEADPHONE	I	Headphone detect signal input. H=ON,L=OFF
18	AVSS	—	Connected to ground.
19	NO USE	—	Not used.
20	KEY2-KEY0	I	KEY input.(AD)
21	VSS	—	Connected to ground.
22	AVDD	—	Power supply.(+5V)
23	VDD	—	Power supply.(+5V)
24	DV5.1-LED	O	DV5.1 LED driver output.
25	PRO-LED	O	GROOVE LED driver output.
26	ENTER-LED	O	ENTER LED driver output.
27	REC-LED	O	REC LED driver output.
28	GAME-LED	O	GAME LED driver output.
29	MO/VIDEO-LED	O	MO(VIDEO) LED driver output.
30	TAPE-LED	O	TAPE LED driver output.
31	CD-LED	O	CD LED drover output.
32	TUNER-LED	O	TUNER LED driver output.
33	GROOVE	—	Not used.
34	NO USE	—	Not used.
35	S29-S8	O	FL segment signal output.
36	VDD2	—	Power supply.(+5V)
37	VLOOD		
38	S7-S0	O	FL segment signal output.
39	G11-G0	O	FL gride output.

6-21. IC BLOCK DIAGRAMS

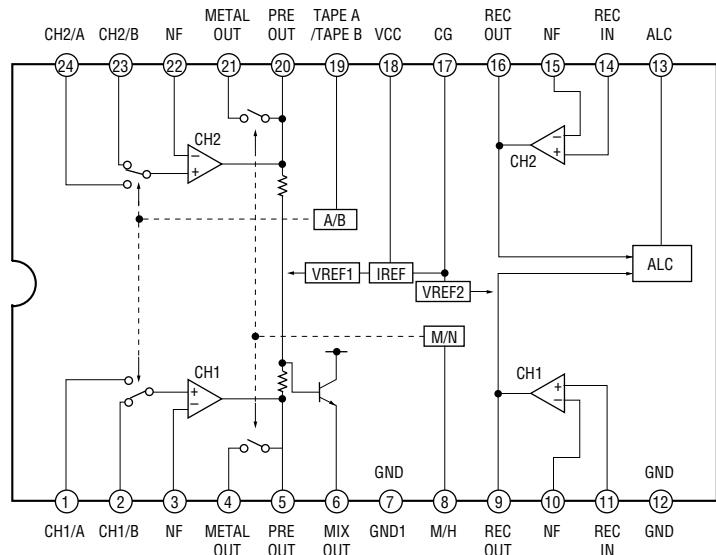
IC101 BA1450 (MAIN BOARD)



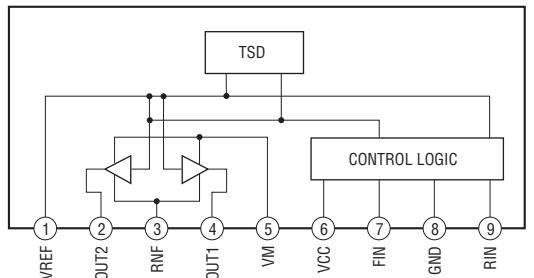
IC102 LC72130 (MAIN BOARD)



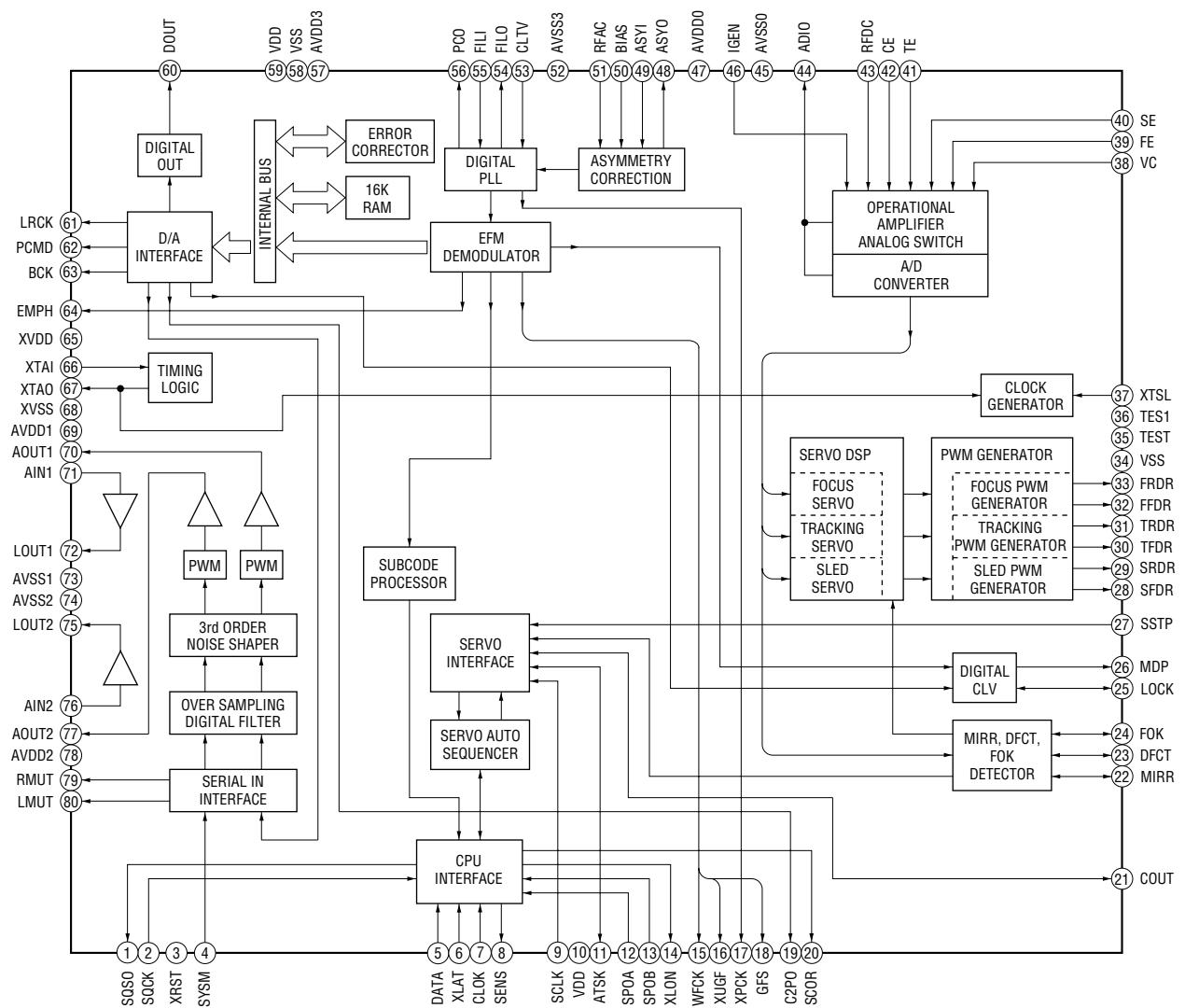
IC201 TA8189N (MAIN BOARD)



IC701 BA6956AN (DRIVER BOARD)

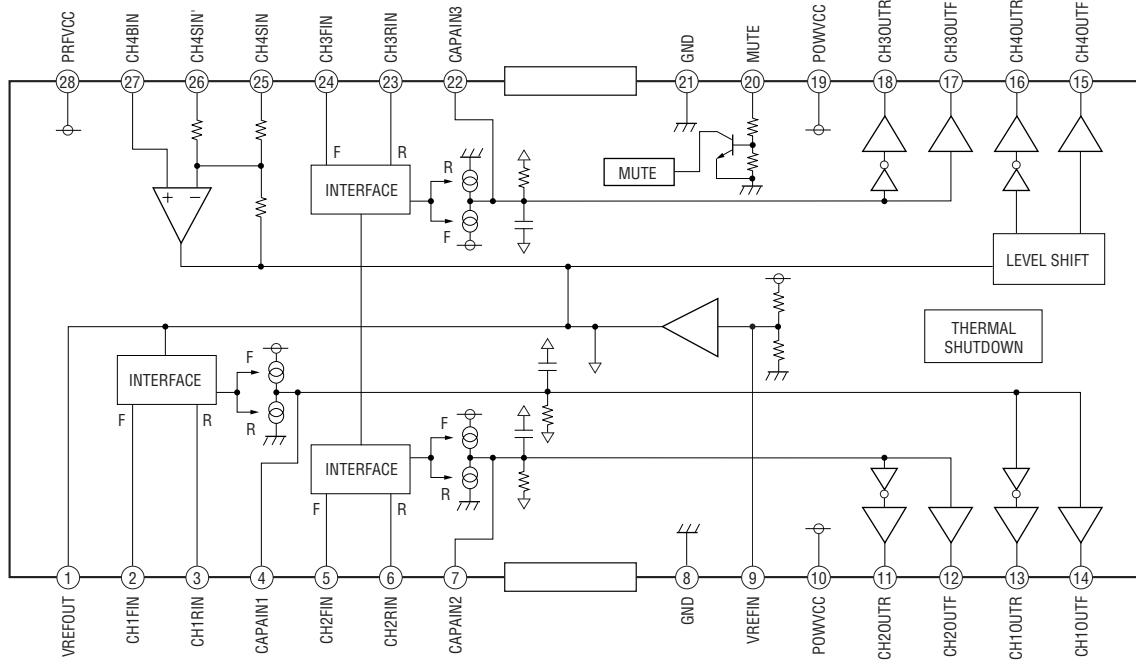


IC101 CXD2587Q (BD BOARD)

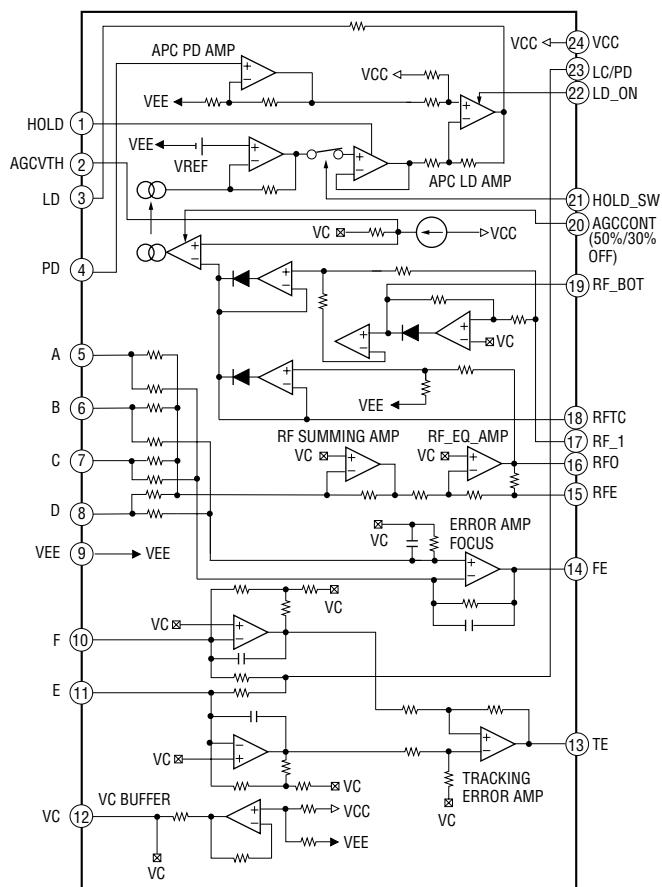


HCD-DX30/RG40

IC102 BA5974P (BD BOARD)



IC103 CXA2568M-T (BD BOARD)



SECTION 7 EXPLODED VIEWS

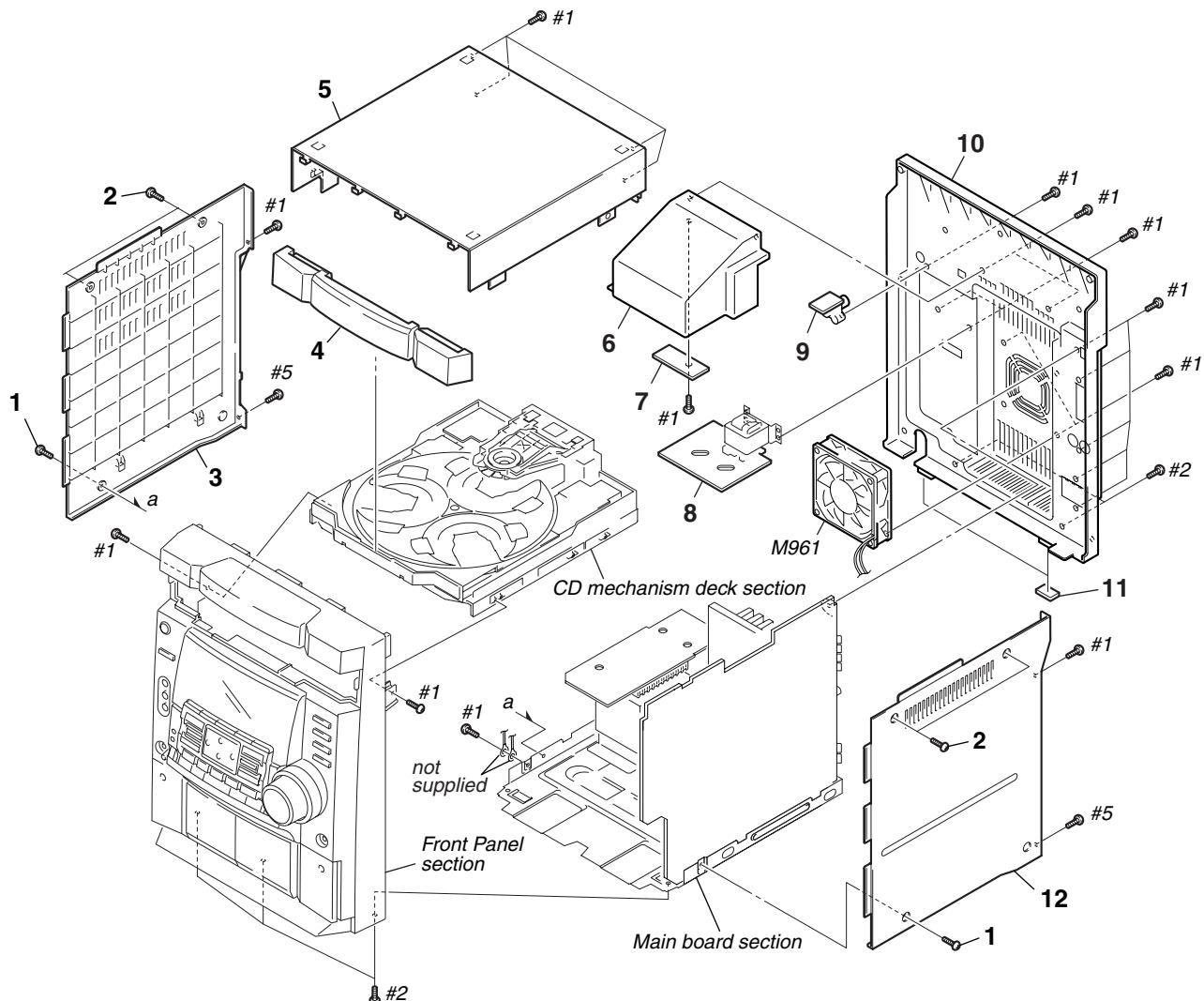
NOTE:

- 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
AUS : Australian model
SP : Singapore model
KR : Korea model
MX : Mexican model
AR : Argentina model
TH : Thai model
E51 : Chilean and Peruvian model

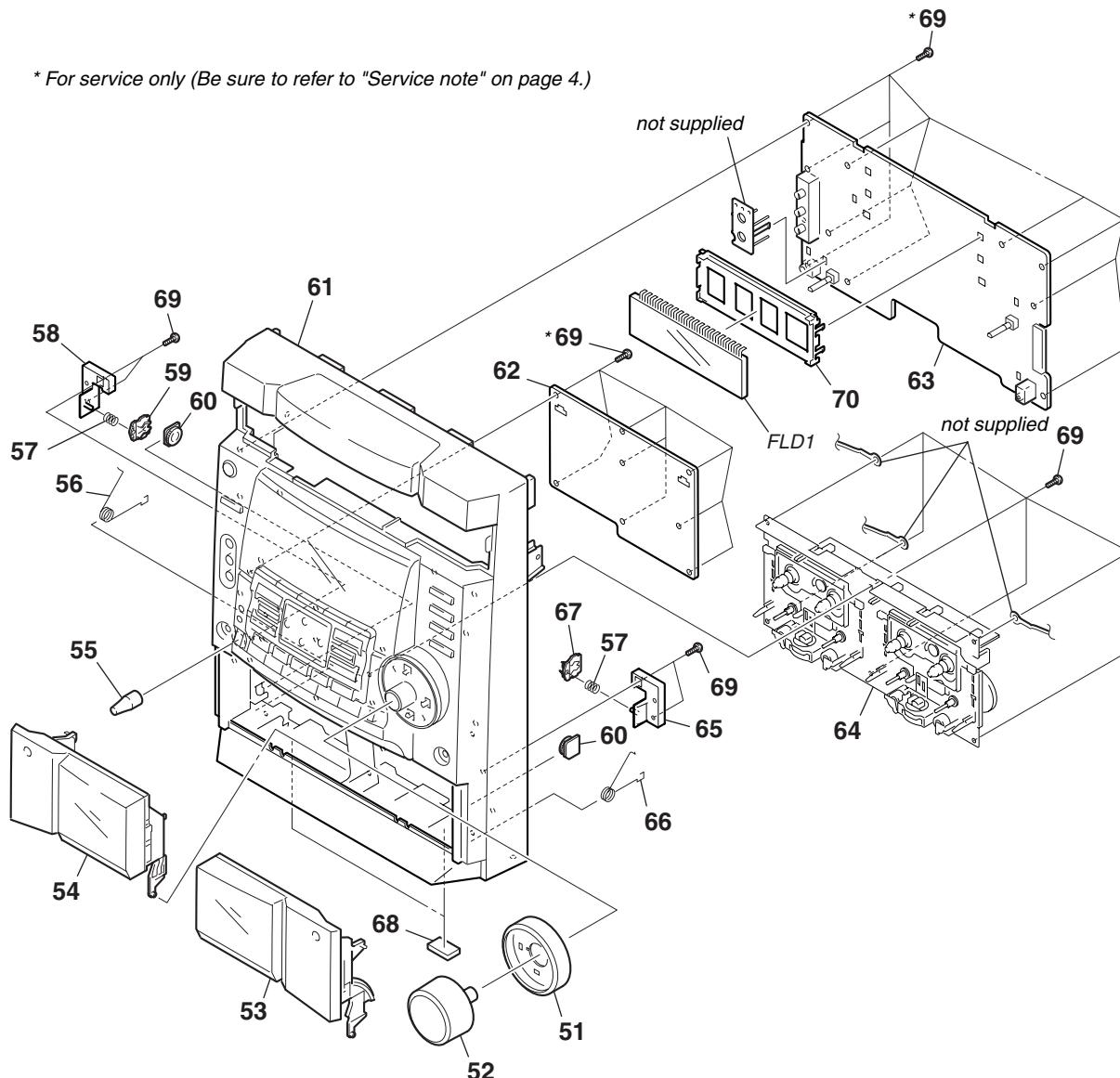
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

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

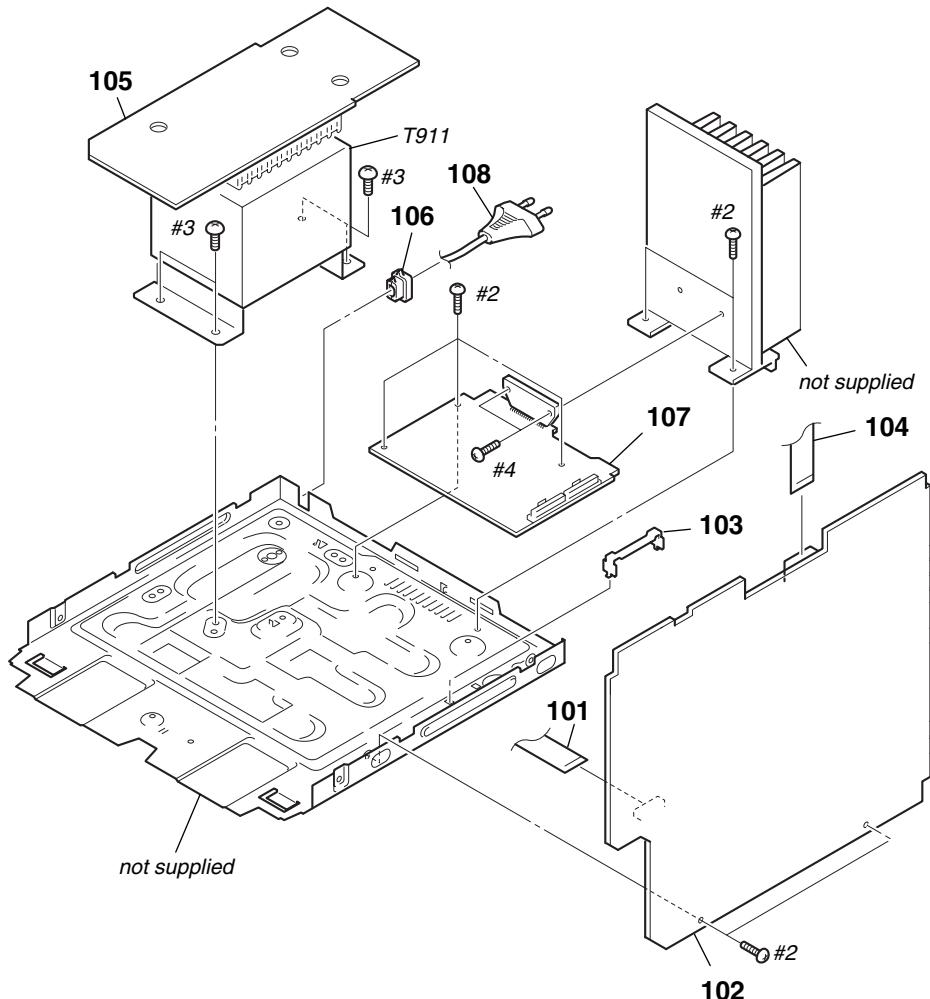
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	3-363-099-01	SCREW (CASE 3 TP2)		9	1-681-441-11	VIDEO OUT BOARD	
2	3-363-099-41	SCREW (CASE 3 TP2)		10	4-234-091-11	PANEL, BACK (DX30:AR,E,E51,SP)	
3	4-224-549-01	CASE (SIDE-L)		10	4-234-091-71	PANEL, BACK (DX30:AUS,KR,MX,TH)	
4	4-234-009-51	CD DOOR (RG40)		10		PANEL, BACK (RG40)	
4	4-234-009-61	CD DOOR (DX30)		11	4-210-254-01	CUSHION (FOOT) (RG40:AEP)	
5	4-224-550-01	CASE (TOP)		11	4-225-252-01	CUSHION (FOOT) (EXCEPT RG40:AEP)	
6	4-227-984-11	COVER (DUCT)		12	4-224-548-14	CASE (SIDE-R) (DX30)	
7	1-681-442-11	SENSOR BOARD		12	4-224-548-61	CASE (SIDE-R) (RG40)	
8	1-681-445-11	SUB TRANS BOARD		M961	1-763-072-11	FAN, DC	

7-2. FRONT PANEL SECTION



<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>
51	4-234-015-01	VOL KNOB RING		62	A-4726-038-A	KEY BOARD, COMPLETE (RG40)	
52	4-234-019-01	VOLUME KNOB (RG40)		62	1-681-447-11	KEY BOARD	
52	4-234-019-11	VOLUME KNOB (DX30)		63	A-4476-797-A	PANEL MOUNTED PC BOARD (DX30:AR,AUS,E,E51,MX,SP)	
53	X-4953-759-1	CASSETTE WINDOW R ASSY (DX30)		63	A-4725-721-A	PANEL MOUNTED PC BOARD (DX30:KR)	
53	X-4953-888-1	CASSETTE WINDOW L ASSY (RG40)		63	A-4725-982-A	PANEL MOUNTED PC BOARD (DX30:TH)	
54	X-4953-760-1	CASSETTE WINDOW L ASSY (DX30)		63	A-4726-035-A	PANEL MOUNTED PC BOARD (RG40)	
54	X-4953-889-1	CASSETTE WINDOW R ASSY (RG40)		64	1-796-124-11	DECK, MECH	
55	4-231-805-01	KNOB (MIC)		65	4-224-561-01	BRACKET (HEART CAM R)	
56	4-233-981-01	CASSETTE DOOR SPRING L		66	4-233-982-01	CASSETTE DOOR SPRING R	
57	4-224-803-01	SPRING (PUSH), COMPRESSION		67	4-224-559-01	CAM (R), HEART	
58	4-224-562-01	BRACKET (HEART CAM L)		68	4-210-254-01	CUSHION (FOOT) (RG40:AEP)	
59	4-224-560-01	CAM (L), HEART		68	4-225-252-01	CUSHION (FOOT)	
60	4-224-104-11	DAMPER		69	4-951-620-01	SCREW (2.6X8), +BVTP	
61	X-4953-770-1	PANEL FRONT ASSY (DX30)		70	4-234-016-01	FL HOLDER	
61	X-4953-887-1	PANEL FRONT ASSY (RG40)					

7-3. MAIN BOARD SECTION

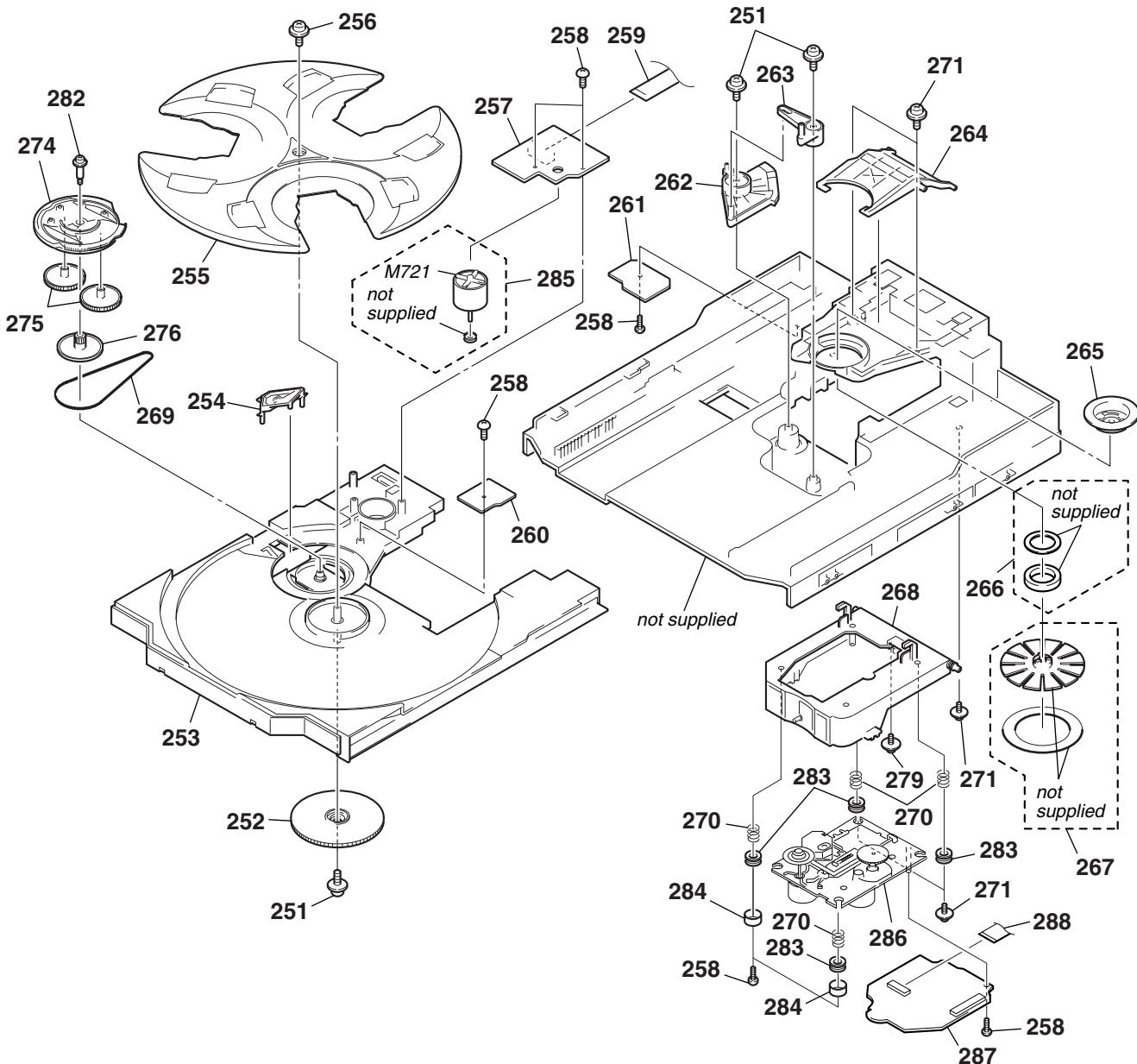


Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
101	1-773-049-11	WIRE (FLAT TYPE) (17 CORE)		107	A-4725-717-A	POWER AMP BOARD, COMPLETE (DX30:KR)	
102	A-4476-795-A	MAIN BOARD, COMPLETE (DX30:SP)		107	A-4725-997-A	POWER AMP BOARD, COMPLETE	
102	A-4476-808-A	MAIN BOARD, COMPLETE (DX30:AUS)		107	A-4726-019-A	POWER AMP BOARD, COMPLETE (DX30:TH)	(DX30:AR,E,E51,MX)
102	A-4725-715-A	MAIN BOARD, COMPLETE (DX30:KR)		107	A-4726-735-A	POWER AMP BOARD, COMPLETE (RG40:AEP)	
102	A-4725-995-A	MAIN BOARD, COMPLETE (DX30:AR,E,E51,MX)		107	A-4726-753-A	POWER AMP BOARD, COMPLETE (RG40:US,CND)	
102	A-4726-015-A	MAIN BOARD, COMPLETE (DX30:TH)		▲ 108	1-690-608-11	CORD, POWER (DX30:AUS)	
102	A-4726-743-A	MAIN BOARD, COMPLETE (RG40:AEP)		▲ 108	1-769-079-21	CORD, POWER (DX30:KR)	
102	A-4726-751-A	MAIN BOARD, COMPLETE (RG40:US,CND)		▲ 108	1-769-744-81	CORD, POWER (RG40:AEP)	
* 103	4-988-533-01	HOLDER, PWB		▲ 108	1-777-071-81	CORD, POWER (DX30:E51,SP)	
104	1-791-897-11	WIRE (FLAT TYPE) (19 CORE)		▲ 108	1-783-532-11	CORD, POWER (RG40:US,CND)	
105	1-681-444-11	TRANS BOARD		▲ 108	1-783-941-22	CORD, POWER (DX30:AR)	
106	3-703-244-00	BUSHING (2104), CORD (RG40,DX30:AR,AUS,E51,KR,SP)		▲ 108	1-791-901-11	CORD, POWER (DX30:E,MX,TH)	
106	3-703-571-11	BUSHING (S) (4516), CORD (DX30:TH)		▲ T911	1-437-226-11	TRANSFORMER, POWER (RG40:US,CND)	
106	4-966-266-01	BUSHING (S) (FBS002), CORD (DX30:E,MX)		▲ T911	1-437-228-11	TRANSFORMER, POWER (DX30)	
107	A-4476-801-A	POWER AMP BOARD, COMPLETE (DX30:AUS,SP)		▲ T911	1-437-229-11	TRANSFORMER, POWER (RG40: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.

7-4. CD MECHANISM DECK SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
251	4-933-134-11	SCREW (+PTPWH M2.6X8)		268	X-4951-889-1	HOLDER (BU) ASSY	
252	4-221-679-01	CAM (RELAY)		269	4-222-095-01	BELT	
253	4-231-452-01	TABLE (NEW)		270	4-227-045-11	SPRING (INSULATOR), COIL	
254	4-221-686-01	LEVER (CHANGE)		271	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
255	4-221-676-01	TRAY		274	4-221-678-01	CAM (CONTROL)	
256	4-933-134-51	SCREW (+PTPWH 2.6X8)		275	4-221-683-01	GEAR (U)	
257	1-675-910-14	MOTOR BOARD		276	4-221-685-01	PULLEY (S)	
258	4-951-620-01	SCREW (2.6X8), +BVTP		279	4-227-899-01	SCREW (DIA. 12), FROATING	
259	1-791-983-11	WIRE (FLAT TYPE) (8 CORE)		282	4-222-097-01	SCREW, STEP	
260	1-675-911-14	ADDRESS SENSOR BOARD		283	4-227-549-11	INSULATOR	
261	1-675-912-14	DRIVER BOARD		284	4-231-151-01	STOPPER (BU)	
262	X-4952-608-1	CAM (U/D) ASSY		285	A-4672-826-A	MOTOR ASSY	
263	4-221-681-01	LEVER (EX)		△ 286	8-820-116-01	OPTICAL PICK-UP KSM-213DCP/Z-NP	
264	4-221-682-01	LEVER (LIFTER)		287	A-4724-934-A	BD BOARD, COMPLETE	
265	4-221-688-01	PULLEY (B), CHUCKING		288	1-792-024-11	WIRE (FLAT TYPE) (16 CORE)	
266	1-471-035-11	MAGNET ASSY		M721	1-541-632-11	MOTOR, DC	
267	X-4952-019-1	PULLEY (A) ASSY, CHUCKING					

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.

SECTION 8 ELECTRICAL PARTS LIST

ADDRESS SENSOR
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
- Abbreviation
CND : Canadian model
AUS : Australian model
SP : Singapore model
KR : Korea model
MX : Mexican model
AR : Argentina model
TH : Thai model
E51 : Chilean and Peruvian model

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

- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A... , μ PA... , μ PA... ,
uPB... , μ PB... , μ PC... , μ PC... ,
uPD... , μ PD...

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.

Ref. No.	Part No.	Description					Remarks	Ref. No.	Part No.	Description					Remarks
	1-675-911-14	ADDRESS SENSOR BOARD *****						C133	1-164-346-11	CERAMIC CHIP	1uF				16V
		< IC >						C140	1-164-346-11	CERAMIC CHIP	1uF				16V
IC711	8-749-016-76	IC RPI-321 < RESISTOR >						C141	1-164-346-11	CERAMIC CHIP	1uF				16V
R711	1-247-876-11	CARBON	75K	5%	1/4W	F		C143	1-163-038-00	CERAMIC CHIP	0.1uF				25V
R712	1-249-409-11	CARBON	220	5%	1/4W			C145	1-163-038-00	CERAMIC CHIP	0.1uF				25V
R713	1-249-429-11	CARBON	10K	5%	1/4W			C153	1-163-038-00	CERAMIC CHIP	0.1uF				25V
	< SWITCH >							C159	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V		
S711	1-771-821-11	SWITCH, PUSH (1 KEY)(UP DOWN SW) *****						C162	1-104-665-11	ELECT	100uF	20.00%	10V		
	A-472-4934-A BD BOARD, COMPLETE *****							C163	1-104-665-11	ELECT	100uF	20.00%	10V		
	< CAPACITOR >							C165	1-163-038-00	CERAMIC CHIP	0.1uF				25V
C101	1-163-005-11	CERAMIC CHIP	470PF	10.00%	50V			C167	1-163-237-11	CERAMIC CHIP	27PF	5.00%	50V		
C102	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V			C168	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V		
C103	1-163-005-11	CERAMIC CHIP	470PF	10.00%	50V			C171	1-163-009-11	CERAMIC CHIP	0.001uF	10.00%	50V		
C104	1-163-009-11	CERAMIC CHIP	0.001uF	10.00%	50V			C172	1-163-123-00	CERAMIC CHIP	180PF	5%	50V		
C108	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V			C181	1-163-009-11	CERAMIC CHIP	0.001uF	10.00%	50V		
C109	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V			C182	1-163-123-00	CERAMIC CHIP	180PF	5%	50V		
C110	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V				< CONNECTOR >						
C111	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V			CN101	1-784-741-11	CONNECTOR, FFC 19P					
C112	1-107-682-11	CERAMIC CHIP	1uF	10.00%	16V			CN102	1-793-907-11	CONNECTOR, FFC/FPC 16P					
C114	1-163-038-00	CERAMIC CHIP	0.1uF		25V				< FERRITE BEAD >						
C115	1-104-665-11	ELECT	100uF	20.00%	10V			FB101	1-469-731-21	INDUCTOR	0UH				
C116	1-104-665-11	ELECT	100uF	20.00%	10V			FB103	1-469-731-21	INDUCTOR	0UH				
C117	1-104-665-11	ELECT	100uF	20.00%	10V				< IC >						
C118	1-163-009-11	CERAMIC CHIP	0.001uF	10.00%	50V			IC101	8-752-386-85	IC CXD2587Q					
C119	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V			IC102	8-759-549-28	IC BA5974FP-E2					
C121	1-163-038-00	CERAMIC CHIP	0.1uF		25V			IC103	8-752-085-51	IC CXA2568M-T6					
C122	1-104-665-11	ELECT	100uF	20.00%	10V				< TRANSISTOR >						
C123	1-163-021-91	CERAMIC CHIP	0.01uF	10.00%	50V			Q101	8-729-010-08	TRANSISTOR	MSB710-RT1				
C124	1-107-823-11	CERAMIC CHIP	0.47uF	10.00%	16V				< RESISTOR >						
C125	1-163-038-00	CERAMIC CHIP	0.1uF		25V			R101	1-216-077-00	RES-CHIP	15K	5%	1/10W		
C126	1-163-038-91	CERAMIC CHIP	0.1uF		25V			R102	1-216-097-11	RES-CHIP	100K	5%	1/10W		
C127	1-104-665-11	ELECT	100uF	20.00%	10V			R103	1-216-077-00	RES-CHIP	15K	5%	1/10W		
C129	1-163-031-91	CERAMIC CHIP	0.01uF		50V			R104	1-216-085-00	RES-CHIP	33K	5%	1/10W		
C130	1-164-346-11	CERAMIC CHIP	1uF		16V			R105	1-216-073-00	RES-CHIP	10K	5%	1/10W		
C131	1-126-964-11	ELECT	10uF	20.00%	50V			R106	1-216-049-11	RES-CHIP	1K	5%	1/10W		
								R107	1-216-073-00	RES-CHIP	10K	5%	1/10W		
								R108	1-216-061-00	RES-CHIP	3.3K	5%	1/10W		
								R109	1-216-121-11	RES-CHIP	1M	5%	1/10W		
								R110	1-216-025-11	RES-CHIP	100	5%	1/10W		

HCD-DX30/RG40

BD **DRIVER** **KEY**

Ref. No.	Part No.	Description	Remarks		Ref. No.	Part No.	Description	Remarks					
R111	1-216-121-11	RES-CHIP	1M	5%	1/10W		A-4726-038-A	KEY BOARD, COMPLETE (RG40)					
R113	1-216-121-11	RES-CHIP	1M	5%	1/10W			*****					
R114	1-216-073-00	RES-CHIP	10K	5%	1/10W		1-681-447-11	KEY BOARD					
R116	1-216-001-00	METAL CHIP	10	5%	1/10W			*****					
R117	1-216-049-11	RES-CHIP	1K	5%	1/10W			< DIODE >					
R118	1-216-025-11	RES-CHIP	100	5%	1/10W		D707	8-719-058-04	DIODE SEL5223S-TP15(REC PAUSE/START)				
R119	1-216-059-00	METAL CHIP	2.7K	5%	1/10W		D708	8-719-058-04	DIODE SEL5223S-TP15(ENTER)				
R123	1-216-073-00	RES-CHIP	10K	5%	1/10W		D709	8-719-057-97	DIODE SEL5923A-TP15(KARAOKE) (DX30)				
R124	1-216-097-11	RES-CHIP	100K	5%	1/10W		D710	8-719-057-97	DIODE SEL5923A-TP15(GROOVE)				
R131	1-216-033-00	METAL CHIP	220	5%	1/10W			< TRANSISTOR >					
R143	1-216-103-00	METAL CHIP	180K	5%	1/10W		Q707	8-729-900-80	TRANSISTOR BA1A4M-TP				
R144	1-216-103-00	METAL CHIP	180K	5%	1/10W		Q708	8-729-900-80	TRANSISTOR BA1A4M-TP				
R147	1-216-069-00	METAL CHIP	6.8K	5%	1/10W		Q709	8-729-900-80	TRANSISTOR BA1A4M-TP (DX30)				
R148	1-216-001-00	METAL CHIP	10	5%	1/10W		Q710	8-729-900-80	TRANSISTOR BA1A4M-TP				
R149	1-216-001-00	METAL CHIP	10	5%	1/10W			< RESISTOR >					
R158	1-216-111-00	METAL CHIP	390K	5%	1/10W		R703	1-249-413-11	CARBON 470 5% 1/4W F				
R159	1-216-101-00	METAL CHIP	150K	5%	1/10W		R704	1-249-414-11	CARBON 560 5% 1/4W F				
R162	1-216-101-00	METAL CHIP	150K	5%	1/10W		R705	1-249-415-11	CARBON 680 5% 1/4W F				
R171	1-216-078-00	RES-CHIP	16K	5%	1/10W		R706	1-249-417-11	CARBON 1K 5% 1/4W F				
R172	1-216-073-91	RES-CHIP	10K	5%	1/10W		R707	1-249-418-11	CARBON 1.2K 5% 1/4W F				
R173	1-216-077-00	RES-CHIP	15K	5%	1/10W		R708	1-249-420-11	CARBON 1.8K 5% 1/4W F				
R181	1-216-078-00	RES-CHIP	16K	5%	1/10W		R709	1-249-422-11	CARBON 2.7K 5% 1/4W F				
R182	1-216-073-00	RES-CHIP	10K	5%	1/10W		R710	1-247-843-11	CARBON 3.3K 5% 1/4W F				
R183	1-216-077-00	RES-CHIP	15K	5%	1/10W		R711	1-249-425-11	CARBON 4.7K 5% 1/4W F				
< NETWORK >													
RN101	1-233-576-11	RES, CHIP NETWORK 100					R713	1-249-410-11	CARBON 270 5% 1/4W F				
< SWITCH >													
S101	1-771-853-11	SWITCH, DETECTION(LIMIT IN)					R714	1-249-411-11	CARBON 330 5% 1/4W F				
< VIBRATOR >													
X101	1-579-280-11	VIBRATOR, CRYSTAL(16.9344MHz)					R715	1-249-413-11	CARBON 470 5% 1/4W F				

1-675-912-14 DRIVER BOARD													

< CAPACITOR >													
C702	1-126-964-11	ELECT	10uF	20.00% 50V				R716	1-249-414-11	CARBON 560 5% 1/4W F			
< CONNECTOR >													
CN701	1-785-336-11	PIN, CONNECTOR(LIGHT ANGLE)10P					R717	1-249-415-11	CARBON 680 5% 1/4W F				
CN702	1-785-550-11	CONNECTOR, FFC/FPC 8P					R718	1-249-417-11	CARBON 1K 5% 1/4W F				
< DIODE >													
D701	8-719-983-15	DIODE MTZJ-T-77-3.9A					R719	1-249-418-11	CARBON 1.2K 5% 1/4W F				
< IC >													
IC701	8-759-598-69	IC BA6956AN					R720	1-249-420-11	CARBON 1.8K 5% 1/4W F				
< RESISTOR >													
R701	1-249-411-11	CARBON	330	5%	1/4W		R721	1-249-422-11	CARBON 2.7K 5% 1/4W F				
R702	1-249-401-11	CARBON	47	5%	1/4W F		R726	1-249-410-11	CARBON 270 5% 1/4W F				

< SWITCH >													
S704	1-762-875-21	SWITCH, KEYBOARD(DISC SKIP EX-CHANGE)					S705	1-762-875-21	SWITCH, KEYBOARD(DISC 1)				
S705	1-762-875-21	SWITCH, KEYBOARD(DISC 1)					S706	1-762-875-21	SWITCH, KEYBOARD(DISC 2)				
S706	1-762-875-21	SWITCH, KEYBOARD(DISC 2)					S707	1-762-875-21	SWITCH, KEYBOARD(DISC 3)				
S707	1-762-875-21	SWITCH, KEYBOARD(DISC 3)					S708	1-762-875-21	SWITCH, KEYBOARD(▲ OPEN/CLOSE)				

Ref. No.	Part No.	Description			Remarks		Ref. No.	Part No.	Description			Remarks	
S709	1-762-875-21	SWITCH, KEYBOARD(▲)			C110	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V			
S710	1-762-875-21	SWITCH, KEYBOARD(▼)			C111	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V			
S711	1-762-875-21	SWITCH, KEYBOARD(GROOVE)			C112	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V			
S712	1-762-875-21	SWITCH, KEYBOARD(KARAOKE PON) (DX30)			C113	1-126-959-11	ELECT	0.47uF	20.00%	50V			
S713	1-762-875-21	SWITCH, KEYBOARD(◀- ▶-)			C114	1-126-947-11	ELECT	47uF	20.00%	16V			
S714	1-762-875-21	SWITCH, KEYBOARD(◀◀)			C115	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V			
S715	1-762-875-21	SWITCH, KEYBOARD(■)			C116	1-126-961-11	ELECT	2.2uF	20.00%	50V			
S716	1-762-875-21	SWITCH, KEYBOARD(◀▶)			C117	1-126-947-11	ELECT	47uF	20.00%	16V			
S717	1-762-875-21	SWITCH, KEYBOARD(☰)			C118	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V			
S718	1-762-875-21	SWITCH, KEYBOARD(▶▶)			C119	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V			
S719	1-762-875-21	SWITCH, KEYBOARD(+ ▶▶)			C120	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V			
S720	1-762-875-21	SWITCH, KEYBOARD(CD SYNC)			C121	1-162-919-11	CERAMIC CHIP	22PF	5%	50V			
S721	1-762-875-21	SWITCH, KEYBOARD(REC PAUSE/START)			C122	1-162-921-11	CERAMIC CHIP	33PF	5%	50V			
S726	1-762-875-21	SWITCH, KEYBOARD(DISPLAY)			C123	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V			
S727	1-762-875-21	SWITCH, KEYBOARD(SPECTRUM)			C124	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V			
S728	1-762-875-21	SWITCH, KEYBOARD(DIRECTION/EDIT)			C125	1-126-947-11	ELECT	47uF	20.00%	16V			
S729	1-762-875-21	SWITCH, KEYBOARD(STEREO/MONO/REPEAT)			C126	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V			
S730	1-762-875-21	SWITCH, KEYBOARD(TUNER MEMORY/ PLAY MODE)			C127	1-126-960-11	ELECT	1uF	20.00%	50V			
S731	1-762-875-21	SWITCH, KEYBOARD(GAME EQ)			C128	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V			
S732	1-762-875-21	SWITCH, KEYBOARD(ENTER)			C129	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V			
S733	1-762-875-21	SWITCH, KEYBOARD(P FILE)			C130	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V			
S734	1-762-875-21	SWITCH, KEYBOARD(▶)			C131	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	(RG40:AEP)		
S735	1-762-875-21	SWITCH, KEYBOARD(◀)			C131	1-164-245-11	CERAMIC CHIP	0.015uF	10.00%	25V	(DX30,RG40:US,CND)		
S736	1-762-875-21	SWITCH, KEYBOARD(MUSIC EQ)			C132	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	(RG40:AEP)		
S737	1-762-875-21	SWITCH, KEYBOARD(EFFECT ON/OFF)			C132	1-164-245-11	CERAMIC CHIP	0.015uF	10.00%	25V	(DX30,RG40:US,CND)		
S738	1-762-875-21	SWITCH, KEYBOARD(MOVE EQ)											

A-4725-715-A MAIN BOARD, COMPLETE (DX30:KR) *****													
A-4725-995-A MAIN BOARD, COMPLETE (DX30:AR,E,E51,MX) *****													
A-4726-015-A MAIN BOARD, COMPLETE (DX30:TH) *****													
A-4726-743-A MAIN BOARD, COMPLETE (RG40:AEP) *****													
A-4726-751-A MAIN BOARD, COMPLETE (RG40:US,CND) *****													
A-4476-795-A MAIN BOARD, COMPLETE (DX30:SP) *****													
A-4476-808-A MAIN BOARD, COMPLETE (DX30:AUS) *****													
7-685-872-09 SCREW +BVTT 3X8 (S)													
< CAPACITOR >													
C29	1-162-947-11	CERAMIC CHIP	33PF	5%	50V	(RG40:AEP)	C133	1-126-957-11	ELECT	0.22uF	20.00%	50V	
C101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C134	1-104-760-11	CERAMIC CHIP	0.047uF	10.00%	50V	
C102	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C135	1-126-963-11	ELECT	4.7uF	20.00%	50V	
C103	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C136	1-126-963-11	ELECT	4.7uF	20.00%	50V	
C104	1-126-947-11	ELECT	47uF	20.00%	16V		C137	1-126-964-11	ELECT	10uF	20.00%	50V	
C105	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C138	1-164-363-11	CERAMIC CHIP	560PF	5.00%	50V	(G40:AEP)
C106	1-126-933-11	ELECT	100uF	20.00%	16V		C139	1-164-471-11	CERAMIC CHIP	680PF	5.00%	50V	(RG40:AEP)
C107	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		C139	1-162-957-11	CERAMIC CHIP	220PF	5%	50V	(DX30,RG40:US,CND)
C108	1-126-964-11	ELECT	10uF	20.00%	50V		C140	1-126-960-11	ELECT	1uF	20.00%	50V	
C109	1-162-935-11	CERAMIC CHIP	4PF	0.25PF	50V		C141	1-104-760-11	CERAMIC CHIP	0.047uF	10.00%	50V	
							C142	1-164-362-11	CERAMIC CHIP	470PF	5.00%	50V	(RG40:AEP)
							C142	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	(DX30,RG40:US,CND)
							C143	1-126-965-11	ELECT	22uF	20.00%	50V	
							C144	1-126-962-11	ELECT	3.3uF	20.00%	50V	(RG40:US,CND)
							C144	1-126-947-11	ELECT	47uF	20.00%	16V	(DX30,RG40:AEP)
							C171	1-126-947-11	ELECT	47uF	20.00%	16V	(RG40:AEP)
							C172	1-164-156-11	CERAMIC CHIP	0.1uF	25V		(RG40:AEP)
							C173	1-164-363-11	CERAMIC CHIP	560PF	5.00%	50V	(RG40:AEP)
							C175	1-164-363-11	CERAMIC CHIP	560PF	5.00%	50V	(RG40:AEP)
							C176	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	(RG40:AEP)

HCD-DX30/RG40

MAIN

Ref. No.	Part No.	Description	Remarks		Ref. No.	Part No.	Description	Remarks		
C179	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (RG40:AEP)	C235	1-126-960-11	ELECT	1uF	20.00% 50V
C180	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (RG40:AEP)	C236	1-126-933-11	ELECT	100uF	20.00% 16V
C181	1-126-961-11	ELECT	2.2uF	20.00%	50V (RG40:AEP)	C237	1-162-962-11	CERAMIC CHIP	470PF	10% 50V
C182	1-162-924-11	CERAMIC CHIP	56PF	5.00%	50V (RG40:AEP)	C238	1-162-977-11	CERAMIC CHIP	0.0018uF	10.00% 50V
C183	1-162-924-11	CERAMIC CHIP	56PF	5.00%	50V (RG40:AEP)	C239	1-130-485-00	MYLAR	0.015uF	5% 50V
C184	1-126-961-11	ELECT	2.2uF	20.00%	50V (RG40:AEP)	C240	1-126-947-11	ELECT	47uF	20.00% 16V
C186	1-126-964-11	ELECT	10uF	20.00%	50V (RG40:AEP)	C241	1-130-479-00	MYLAR	0.0047uF	5% 50V
C187	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (RG40:AEP)	C242	1-130-471-00	MYLAR	0.001uF	5% 50V
C201	1-162-963-11	CERAMIC CHIP	680PF	10%	50V	C243	1-162-965-11	CERAMIC CHIP	0.0015uF	10% 50V
C202	1-162-963-11	CERAMIC CHIP	680PF	10%	50V	C244	1-162-965-11	CERAMIC CHIP	0.0015uF	10% 50V
C203	1-162-963-11	CERAMIC CHIP	680PF	10%	50V	C256	1-126-960-11	ELECT	1uF	20.00% 50V
C204	1-162-963-11	CERAMIC CHIP	680PF	10%	50V	C257	1-126-956-11	ELECT	0.1uF	20.00% 50V
C205	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C265	1-162-974-11	CERAMIC CHIP	0.01uF	50V
C206	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C266	1-162-995-11	CERAMIC CHIP	0.022uF	50V
C207	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C270	1-126-933-11	ELECT	100uF	20.00% 16V
C208	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C271	1-126-960-11	ELECT	1uF	20.00% 50V
C209	1-126-947-11	ELECT	47uF	20.00%	16V	C272	1-126-960-11	ELECT	1uF	20.00% 50V
C210	1-126-947-11	ELECT	47uF	20.00%	16V	C300	1-136-165-00	FILM	0.1uF	5.00% 50V
C211	1-130-486-00	MYLAR	0.018uF	10%	50V	C301	1-126-963-11	ELECT	4.7uF	20.00% 50V
C212	1-130-486-00	MYLAR	0.018uF	10%	50V	C302	1-126-963-11	ELECT	4.7uF	20.00% 50V
C213	1-126-960-11	ELECT	1uF	20.00%	50V	C303	1-126-963-11	ELECT	4.7uF	20.00% 50V
C214	1-126-960-11	ELECT	1uF	20.00%	50V	C304	1-126-963-11	ELECT	4.7uF	20.00% 50V
C215	1-126-961-11	ELECT	2.2uF	20.00%	50V	C307	1-126-963-11	ELECT	4.7uF	20.00% 50V
C217	1-126-947-11	ELECT	47uF	20.00%	16V	C308	1-126-963-11	ELECT	4.7uF	20.00% 50V
C218	1-126-947-11	ELECT	47uF	20.00%	16V	C309	1-126-963-11	ELECT	4.7uF	20.00% 50V
C219	1-126-962-11	ELECT	3.3uF	20.00%	50V (RG40)	C310	1-126-963-11	ELECT	4.7uF	20.00% 50V
C219	1-126-961-11	ELECT	2.2uF	20.00%	50V (DX30)	C311	1-126-964-11	ELECT	10uF	20.00% 50V
C221	1-126-963-11	ELECT	4.7uF	20.00%	50V	C312	1-136-165-00	FILM	0.1uF	5.00% 50V
C222	1-126-962-11	ELECT	3.3uF	20.00%	50V (RG40)	C313	1-130-491-00	MYLAR	0.047uF	5% 50V
C222	1-126-963-11	ELECT	4.7uF	20.00%	50V (DX30)	C314	1-126-963-11	ELECT	4.7uF	20.00% 50V (DX30)
C223	1-130-487-00	MYLAR	0.022uF	5%	50V	C315	1-126-963-11	ELECT	4.7uF	20.00% 50V
C224	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C317	1-136-169-00	FILM	0.22uF	5.00% 50V
C225	1-126-962-11	ELECT	3.3uF	20.00%	50V (RG40)	C318	1-136-169-00	FILM	0.22uF	5.00% 50V
C225	1-126-963-11	ELECT	4.7uF	20.00%	50V (DX30)	C319	1-136-169-00	FILM	0.22uF	5.00% 50V
C226	1-162-977-11	CERAMIC CHIP	0.0018uF	10.00%	50V	C320	1-136-169-00	FILM	0.22uF	5.00% 50V
C227	1-162-949-11	CERAMIC CHIP	47PF	5%	50V	C321	1-136-171-00	FILM	0.33uF	5.00% 50V
C228	1-162-949-11	CERAMIC CHIP	47PF	5%	50V	C322	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C229	1-104-665-11	ELECT	100uF	20.00%	10V	C325	1-130-487-00	MYLAR	0.022uF	5% 50V
C230	1-104-665-11	ELECT	100uF	20.00%	10V	C326	1-130-487-00	MYLAR	0.022uF	5% 50V
C231	1-124-252-00	ELECT	0.33uF	20%	50V (RG40)	C327	1-130-487-00	MYLAR	0.022uF	5% 50V
C231	1-126-959-11	ELECT	0.47uF	20.00%	50V (DX30)	C328	1-130-487-00	MYLAR	0.022uF	5% 50V
C232	1-124-252-00	ELECT	0.33uF	20%	50V (RG40)	C333	1-130-475-00	MYLAR	0.0022uF	5% 50V
C232	1-126-959-11	ELECT	0.47uF	20.00%	50V (DX30)	C334	1-130-475-00	MYLAR	0.0022uF	5% 50V
C233	1-130-491-00	MYLAR	0.047uF	5%	50V	C337	1-130-491-00	MYLAR	0.047uF	5% 50V
C234	1-130-491-00	MYLAR	0.047uF	5%	50V	C338	1-130-491-00	MYLAR	0.047uF	5% 50V
						C339	1-130-491-00	MYLAR	0.047uF	5% 50V
						C340	1-130-491-00	MYLAR	0.047uF	5% 50V
						C342	1-136-165-00	FILM	0.1uF	5.00% 50V
						C343	1-136-165-00	FILM	0.1uF	5.00% 50V
						C344	1-126-964-11	ELECT	10uF	20.00% 50V
						C345	1-126-934-11	ELECT	220uF	20.00% 16V
						C346	1-136-170-00	FILM	0.27uF	5.00% 50V
						C347	1-126-964-11	ELECT	10uF	20.00% 50V
						C348	1-126-964-11	ELECT	10uF	20.00% 50V
						C349	1-104-665-11	ELECT	100uF	20.00% 10V

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks			
C350	1-165-128-11	CERAMIC CHIP	0.22uF	16V		C673	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	
C351	1-162-964-11	CERAMIC CHIP	0.001uF	10% (RG40)	50V	C674	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	
C351	1-162-962-11	CERAMIC CHIP	470PF	10%	50V (DX30)	C675	1-126-935-11	ELECT	470uF	20.00%	10V	
C352	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (RG40)	C676	1-104-665-11	ELECT	100uF	20.00%	10V	
C352	1-162-962-11	CERAMIC CHIP	470PF	10%	50V (DX30)	C677	1-126-935-11	ELECT	470uF	20.00%	10V	
C356	1-126-963-11	ELECT	4.7uF	20.00%	50V	C678	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	
C360	1-164-156-11	CERAMIC CHIP	0.1uF	25V		C679	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	
C361	1-107-721-11	ELECT	4.7uF	20.00%	100V	C681	1-136-165-00	FILM	0.1uF	5.00%	50V	
C362	1-107-721-11	ELECT	4.7uF	20.00%	100V	C683	1-136-165-00	FILM	0.1uF	5.00%	50V	
C363	1-107-717-11	ELECT	47uF	20.00%	50V	C684	1-136-165-00	FILM	0.1uF	5.00%	50V	
C364	1-109-953-11	ELECT	2.2uF	20.00%	50V	C685	1-126-768-11	ELECT	2200uF	20.00%	16V	
C371	1-164-156-11	CERAMIC CHIP	0.1uF	25V		C686	1-126-964-11	ELECT	10uF	20.00%	50V	
				(RG40:AEP)		C687	1-126-916-11	ELECT	1000uF	20.00%	6.3V	
C372	1-164-156-11	CERAMIC CHIP	0.1uF	25V		C688	1-126-964-11	ELECT	10uF	20.00%	50V	
				(RG40:AEP)		C689	1-104-665-11	ELECT	100uF	20.00%	10V	
C373	1-164-156-11	CERAMIC CHIP	0.1uF	25V		C690	1-126-964-11	ELECT	10uF	20.00%	50V	
				(RG40:AEP)		C691	1-126-933-11	ELECT	100uF	20.00%	16V	
C374	1-164-156-11	CERAMIC CHIP	0.1uF	25V		C692	1-126-935-11	ELECT	470uF	20.00%	16V	
				(RG40:AEP)		C693	1-130-483-00	MYLAR	0.01uF	5%	50V	
C375	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C694	1-130-483-00	MYLAR	0.01uF	5%	50V	
C376	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C697	1-126-943-11	ELECT	2200uF	20.00%	25V	
C377	1-126-963-11	ELECT	4.7uF	20.00%	50V	C698	1-126-964-11	ELECT	10uF	20.00%	50V	
C378	1-164-156-11	CERAMIC CHIP	0.1uF	25V		C699	1-126-935-11	ELECT	470uF	20.00%	16V	
C381	1-104-665-11	ELECT	100uF	20.00%	10V	C235A	1-162-949-11	CERAMIC CHIP	47PF	5%	50V	
						C236A	1-162-949-11	CERAMIC CHIP	47PF	5%	50V	
											< FILTER >	
C382	1-126-961-11	ELECT	2.2uF	20.00%	50V	CF101	1-579-185-21	FILTER, CERAMIC (RG40:AEP)				
C383	1-126-961-11	ELECT	2.2uF	20.00%	50V	CF101	1-760-023-11	FILTER, CERAMIC (DX30,RG40:US,CND)				
C601	1-164-156-11	CERAMIC CHIP	0.1uF	25V		CF102	1-579-185-21	FILTER, CERAMIC (RG40:AEP)				
C602	1-126-964-11	ELECT	10uF	20.00%	50V	CF102	1-760-023-11	FILTER, CERAMIC (DX30,RG40:US,CND)				
C603	1-162-960-11	CERAMIC CHIP	220PF	10%	50V						< CONNECTOR >	
C604	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	CN2	1-784-778-11	CONNECTOR, FFC 17P				
C605	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	CN5	1-564-506-11	PLUG, CONNECTOR 3P				
C606	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	CN102	1-784-741-11	CONNECTOR, FFC 19P				
C607	1-162-918-11	CERAMIC CHIP	18PF	5.00%	50V	* CN203	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P (RG40:AEP)				
C608	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	CN402	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P				
C610	1-126-964-11	ELECT	10uF	20.00%	50V	CN403	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P				
C611	1-162-974-11	CERAMIC CHIP	0.01uF		50V	CN701	1-793-766-11	CONNECTOR, BOARD TO BOARD 30P				
C612	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	CN714	1-564-505-11	PLUG, CONNECTOR 2P				
C613	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V						< DIODE >	
C614	1-164-156-11	CERAMIC CHIP	0.1uF	25V		D101	8-719-914-42	DIODE DA204K-T-146				
C644	1-164-156-11	CERAMIC CHIP	0.1uF	25V		D104	8-719-978-33	DIODE UZSSTE-176.8B				
C656	1-164-156-11	CERAMIC CHIP	0.1uF	25V		D107	8-719-988-61	DIODE 1SS355TE-17 (RG40:AEP)				
C657	1-164-156-11	CERAMIC CHIP	0.1uF	25V		D108	8-719-988-61	DIODE 1SS355TE-17				
C658	1-164-156-11	CERAMIC CHIP	0.1uF	25V		D203	8-719-988-61	DIODE 1SS355TE-17				
C659	1-164-156-11	CERAMIC CHIP	0.1uF	25V		D204	8-719-988-61	DIODE 1SS355TE-17				
C660	1-164-156-11	CERAMIC CHIP	0.1uF	25V		D205	8-719-988-61	DIODE 1SS355TE-17				
C661	1-128-551-11	ELECT	22uF	20.00%	25V	D206	8-719-988-61	DIODE 1SS355TE-17				
				RG40		D207	8-719-988-61	DIODE 1SS355TE-17				
C661	1-126-965-11	ELECT	22uF	20.00%	50V	D301	8-719-069-60	DIODE UZSSTE-179.1B				
C662	1-136-165-00	FILM	0.1uF	5.00%	50V	D302	8-719-988-61	DIODE 1SS355TE-17				
C663	1-136-165-00	FILM	0.1uF	5.00%	50V	D303	8-719-988-61	DIODE 1SS355TE-17				
C664	1-162-974-11	CERAMIC CHIP	0.01uF		50V	D361	8-719-988-61	DIODE 1SS355TE-17				
C665	1-126-916-11	ELECT	1000uF	20.00%	6.3V	D371	8-719-988-61	DIODE 1SS355TE-17				
C666	1-164-156-11	CERAMIC CHIP	0.1uF	25V		D372	8-719-988-61	DIODE 1SS355TE-17				
C671	1-126-916-11	ELECT	1000uF	20.00%	6.3V							
C672	1-162-953-11	CERAMIC CHIP	100PF	5%	50V							

HCD-DX30/RG40

MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
D374	8-719-988-61	DIODE 1SS355TE-17				< FRONT END >	
D383	8-719-988-61	DIODE 1SS355TE-17		FE101	1-693-496-11	FRONT END (4 GANG) (RG40:AEP)	
D601	8-719-988-61	DIODE 1SS355TE-17		FE101	1-693-478-11	FRONT END (FM3 GANGS) (RG40:US,CND)	
D602	8-719-988-61	DIODE 1SS355TE-17		FE101	1-693-477-11	FRONT END (3 GANGS) (DX30)	
D661	8-719-988-61	DIODE 1SS355TE-17					
D662	8-719-988-61	DIODE 1SS355TE-17				< TERMINAL >	
D663	8-719-988-61	DIODE 1SS355TE-17		* GND1	1-537-738-21	TERMINAL, EARTH	
D664	8-719-988-61	DIODE 1SS355TE-17					
D665	8-719-988-61	DIODE 1SS355TE-17				< IC >	
D666	8-719-988-61	DIODE 1SS355TE-17		IC101	8-759-652-00	IC BA1450	
D667	8-719-988-61	DIODE 1SS355TE-17		IC102	8-759-288-54	IC LC72130	
D668	8-719-988-61	DIODE 1SS355TE-17		IC103	8-759-541-48	IC BU1924 (RG40:AEP)	
D669	8-719-988-61	DIODE 1SS355TE-17		IC201	8-759-242-58	IC TA8189N	
D670	8-719-988-61	DIODE 1SS355TE-17		IC301	8-759-832-80	IC BH3878KS2	
D681	8-719-083-89	DIODE 11ES2N-TB5		IC401	6-800-194-01	IC M30622MCA-B23FP	
D682	8-719-083-89	DIODE 11ES2N-TB5		IC661	8-759-635-63	IC M51943BSL-TP	
D683	8-719-083-89	DIODE 11ES2N-TB5		IC681	8-759-039-69	IC uPC7805AHF	
D684	8-719-083-89	DIODE 11ES2N-TB5		IC682	8-759-039-69	IC uPC7805AHF	
D685	8-719-988-61	DIODE 1SS355TE-17		IC683	8-759-088-08	IC uPC7812AHF	
D686	8-719-988-61	DIODE 1SS355TE-17		IC684	8-759-701-59	IC M5F7809L	
D687	8-719-083-89	DIODE 11ES2N-TB5				< IFT >	
D688	8-719-083-89	DIODE 11ES2N-TB5		IFT101	1-435-295-11	TRANSFORMER, IF	
D689	8-719-083-89	DIODE 11ES2N-TB5					
D690	8-719-083-89	DIODE 11ES2N-TB5					
D691	8-719-083-89	DIODE 11ES2N-TB5					
D692	8-719-083-89	DIODE 11ES2N-TB5				< JACK >	
D693	8-719-083-89	DIODE 11ES2N-TB5		JK301	1-793-987-11	JACK, PIN 2P (AUDIO IN)	
D694	8-719-083-89	DIODE 11ES2N-TB5		JK302	1-694-635-11	TERMINAL BOARD (4P) (SPEAKER)	
D695	8-719-083-89	DIODE 11ES2N-TB5					
D696	8-719-988-61	DIODE 1SS355TE-17 (RG40)					
						< JUMPER RESISTOR >	
				JR1	1-216-864-11	METAL CHIP	0 5% 1/16W
* EP1	1-537-738-21	TERMINAL, EARTH (RG40:US,CND)	< FERRITE BEAD >	JR4	1-216-864-11	METAL CHIP	0 5% 1/16W
				JR7	1-216-864-11	METAL CHIP	0 5% 1/16W
				JR8	1-216-864-11	METAL CHIP	0 5% 1/16W
				JR10	1-216-864-11	METAL CHIP	0 5% 1/16W
				JR11	1-216-864-11	METAL CHIP	0 5% 1/16W
FB1	1-550-907-21	FERRITE	OUH (DX30:AUS,KR,RG40:AEP)	JR12	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40)
				JR13	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40)
				JR14	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30)
				JR15	1-216-864-11	METAL CHIP	0 5% 1/16W
				JR11	1-216-864-11	METAL CHIP	0 5% 1/16W
FB2	1-469-711-21	INDUCTOR	OUH (DX30:KR)	JR16	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40,RG40:US,CND)
				JR17	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:US,CND)
				JR101	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:US,CND)
				JR103	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:US,CND)
				JR106	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:US,CND)
FB3	1-469-709-21	INDUCTOR	OUH (DX30:AUS)	JR108	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:US,CND)
				JR109	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:US,CND)
				JR110	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:AEP)
				JR111	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:US,CND)
				JR602	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:AEP)
FB4	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:AEP)	JR108	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:US,CND)
				JR109	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:US,CND)
				JR110	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:AEP)
				JR111	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:US,CND)
				JR602	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:AEP)
FB5	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:AEP)	JR108	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:US,CND)
				JR109	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:US,CND)
				JR110	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:AEP)
				JR111	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:US,CND)
				JR602	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:AEP)
FB6	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:AEP)	JR108	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:US,CND)
				JR109	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:US,CND)
				JR110	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:AEP)
				JR111	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:US,CND)
				JR602	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:AEP)

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
JR603	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:AEP)	Q220	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
JR606	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:AEP)	Q221	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
JR607	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30)	Q222	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
JR609	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:AEP)	Q223	8-729-142-46	TRANSISTOR	2SC2001TP-LK
JR633	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:AEP)	Q224	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
JR634	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:AEP)	Q225	8-729-140-04	TRANSISTOR	2SB1116-TP-LK
JR635	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:AEP)	Q226	8-729-900-63	TRANSISTOR	BN1F4M-TP (DX30)
JR636	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:AEP)	Q227	8-729-140-04	TRANSISTOR	2SB1116-TP-LK
JR637	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:AEP)	Q228	8-729-140-04	TRANSISTOR	2SB1116-TP-LK
JR638	1-216-864-11	METAL CHIP	0 5% 1/16W	Q229	8-729-141-30	TRANSISTOR	2SC3623ATP-LK (DX30)
JR639	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40:AEP)	Q230	8-729-141-30	TRANSISTOR	2SC3623ATP-LK (DX30)
JR640	1-216-864-11	METAL CHIP	0 5% 1/16W	Q301	8-729-141-30	TRANSISTOR	2SC3623ATP-LK
JR641	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:AEP)	Q302	8-729-141-30	TRANSISTOR	2SC3623ATP-LK
JR642	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:AEP)	Q361	8-729-900-80	TRANSISTOR	BA1A4M-TP
JR655	1-216-864-11	METAL CHIP	0 5% 1/16W (RG40)	Q362	8-729-900-63	TRANSISTOR	BN1F4M-TP
< COIL >				Q363	8-729-141-30	TRANSISTOR	2SC3623ATP-LK
L107	1-410-387-11	INDUCTOR CHIP	33uH (RG40:AEP)	Q364	8-729-141-30	TRANSISTOR	2SC3623ATP-LK
L107	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30)	Q365	8-729-900-63	TRANSISTOR	BN1F4M-TP
L108	1-410-369-11	INDUCTOR CHIP	1uH (RG40:AEP)	Q371	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
L109	1-410-393-11	INDUCTOR CHIP	100uH (RG40:AEP)	Q373	8-729-140-04	TRANSISTOR	2SB1116-TP-LK
L201	1-437-220-11	TRANSFORMER, BIAS OSCILLATION		Q381	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
L371	1-420-872-00	COIL, AIR-CORE (RG40:AEP)		Q382	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
L372	1-420-872-00	COIL, AIR-CORE (RG40:AEP)		Q383	8-729-119-76	TRANSISTOR	2SA1175TP-HFE
L671	1-414-189-31	INDUCTOR	100uH	Q384	8-729-900-80	TRANSISTOR	BA1A4M-TP
< PHOTO INTERRUPTER >				Q385	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
< RESISTOR >				Q386	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
< TRANSISTOR >				Q387	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
Q101	8-729-922-66	TRANSISTOR	2SC2410S-TPNP	Q601	8-729-900-80	TRANSISTOR	BA1A4M-TP
Q102	8-729-422-57	TRANSISTOR	BN1A4M-TP	Q602	8-729-140-04	TRANSISTOR	2SB1116-TP-LK
Q103	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	Q603	8-729-900-80	TRANSISTOR	BA1A4M-TP
Q104	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR	Q604	8-729-140-04	TRANSISTOR	2SB1116-TP-LK
Q105	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR (RG40:AEP)	Q605	8-729-900-80	TRANSISTOR	BA1A4M-TP
Q210	8-729-119-78	TRANSISTOR	2SC2785TP-HFE	Q606	8-729-116-57	TRANSISTOR	2SB1068TP-K
Q211	8-729-119-78	TRANSISTOR	2SC2785TP-HFE	Q661	8-729-119-78	TRANSISTOR	2SC2785TP-HFE
Q212	8-729-119-78	TRANSISTOR	2SC2785TP-HFE	Q681	8-729-049-79	TRANSISTOR	RT1P137S-TP
Q213	8-729-119-78	TRANSISTOR	2SC2785TP-HFE	Q682	8-729-900-80	TRANSISTOR	BA1A4M-TP
Q214	8-729-141-30	TRANSISTOR	2SC3623ATP-LK	< RESISTOR >			
Q215	8-729-141-30	TRANSISTOR	2SC3623ATP-LK	R3	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30)
Q216	8-729-141-30	TRANSISTOR	2SC3623ATP-LK	R4	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30)
Q217	8-729-141-30	TRANSISTOR	2SC3623ATP-LK	R7	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:AEP)
Q218	8-729-119-78	TRANSISTOR	2SC2785TP-HFE	R101	1-216-805-11	METAL CHIP	47 5% 1/16W
Q219	8-729-119-78	TRANSISTOR	2SC2785TP-HFE	R102	1-216-819-11	METAL CHIP	680 5% 1/16W
				R103	1-216-819-11	METAL CHIP	680 5% 1/16W
				R104	1-216-811-11	METAL CHIP	150 5% 1/16W
				R105	1-216-823-11	METAL CHIP	1.5K 5% 1/16W
				R106	1-216-819-11	METAL CHIP	680 5% 1/16W (RG40)
				R106	1-216-815-11	METAL CHIP	330 5% 1/16W (DX30,RG40:AEP)
				R107	1-216-864-11	METAL CHIP	0 5% 1/16W (DX30,RG40:AEP)
				R108	1-216-815-11	METAL CHIP	330 5% 1/16W
				R109	1-216-805-11	METAL CHIP	47 5% 1/16W
				R110	1-216-833-11	METAL CHIP	10K 5% 1/16W
				R111	1-216-809-11	METAL CHIP	100 5% 1/16W

HCD-DX30/RG40

MAIN

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R112	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R206	1-216-805-11	METAL CHIP	47	5%	1/16W
R113	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R207	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R114	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R208	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R115	1-216-833-11	METAL CHIP	10K	5%	1/16W	R209	1-216-850-11	METAL CHIP	270K	5%	1/16W
R116	1-216-809-11	METAL CHIP	100	5%	1/16W	R210	1-216-850-11	METAL CHIP	270K	5%	1/16W
R117	1-216-845-11	METAL CHIP	100K	5%	1/16W	R214	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R118	1-216-809-11	METAL CHIP	100	5%	1/16W	R215	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R119	1-216-833-11	METAL CHIP	10K	5%	1/16W	R216	1-216-845-11	METAL CHIP	100K	5%	1/16W
R120	1-216-833-11	METAL CHIP	10K	5%	1/16W	R217	1-216-833-11	METAL CHIP	10K	5%	1/16W
R121	1-216-821-11	METAL CHIP	1K	5%	1/16W	R218	1-216-848-11	METAL CHIP	180K	5%	1/16W
R122	1-216-833-11	METAL CHIP	10K	5%	1/16W	R219	1-216-841-11	METAL CHIP	47K	5%	1/16W
R123	1-216-833-11	METAL CHIP	10K	5%	1/16W	R219	1-216-833-11	METAL CHIP	10K	5%	(RG40)
R124	1-216-813-11	METAL CHIP	220	5%	1/16W	R220	1-216-837-11	METAL CHIP	22K	5%	1/16W
R125	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R221	1-216-833-11	METAL CHIP	10K	5%	(DX30)
R126	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R222	1-216-813-11	METAL CHIP	220	5%	1/16W
R127	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R223	1-216-848-11	METAL CHIP	180K	5%	1/16W
R128	1-216-818-11	METAL CHIP	560	5%	1/16W	R224	1-216-848-11	METAL CHIP	180K	5%	1/16W
R129	1-216-818-11	METAL CHIP	560	5%	1/16W	R225	1-216-837-11	METAL CHIP	22K	5%	1/16W
R130	1-216-833-11	METAL CHIP	10K	5%	1/16W	R226	1-216-837-11	METAL CHIP	22K	5%	1/16W
R131	1-216-834-11	METAL CHIP	12K	5%	1/16W	R227	1-216-846-11	METAL CHIP	120K	5%	1/16W
R132	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R228	1-216-846-11	METAL CHIP	120K	5%	1/16W
R133	1-216-815-11	METAL CHIP	330	5%	1/16W	R229	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
					(RG40:US,CND)	R230	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R133	1-216-814-11	METAL CHIP	270	5%	1/16W	R231	1-216-825-11	METAL CHIP	2.2K	5%	(RG40:AEP)
					(RG40:AEP)	R232	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R133	1-216-817-11	METAL CHIP	470	5%	1/16W	R233	1-216-843-11	METAL CHIP	68K	5%	(DX30)
						R234	1-216-843-11	METAL CHIP	68K	5%	1/16W
R134	1-216-815-11	METAL CHIP	330	5%	1/16W	R235	1-216-829-11	METAL CHIP	4.7K	5%	(RG40:US,CND)
					(RG40:US,CND)	R236	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R134	1-216-814-11	METAL CHIP	270	5%	1/16W	R237	1-216-833-11	METAL CHIP	10K	5%	(RG40:AEP)
					(RG40:AEP)	R238	1-216-855-11	METAL CHIP	680K	5%	1/16W
R134	1-216-817-11	METAL CHIP	470	5%	1/16W	R239	1-216-833-11	METAL CHIP	10K	5%	(DX30)
					(DX30)	R240	1-216-833-11	METAL CHIP	10K	5%	1/16W
R135	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R241	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R136	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R242	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R137	1-216-809-11	METAL CHIP	100	5%	1/16W	R243	1-216-825-11	METAL CHIP	2.2K	5%	(RG40:RG40:AEP)
					(RG40:RG40:AEP)	R244	1-216-838-11	METAL CHIP	27K	5%	1/16W
R171	1-216-809-11	METAL CHIP	100	5%	1/16W	R245	1-216-833-11	METAL CHIP	10K	5%	(RG40:AEP)
					(RG40:AEP)	R246	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R172	1-216-845-11	METAL CHIP	100K	5%	1/16W	R247	1-216-845-11	METAL CHIP	100K	5%	(RG40:AEP)
					(RG40:AEP)	R248	1-216-834-11	METAL CHIP	12K	5%	1/16W
R174	1-216-821-11	METAL CHIP	1K	5%	1/16W	R249	1-216-855-11	METAL CHIP	680K	5%	(RG40:AEP)
					(RG40:AEP)	R250	1-216-848-11	METAL CHIP	180K	5%	1/16W
R175	1-216-817-11	METAL CHIP	470	5%	1/16W	R251	1-216-825-11	METAL CHIP	2.2K	5%	(RG40:AEP)
					(RG40:AEP)	R252	1-216-838-11	METAL CHIP	27K	5%	1/16W
R177	1-216-809-11	METAL CHIP	100	5%	1/16W	R253	1-216-833-11	METAL CHIP	10K	5%	(RG40:AEP)
					(RG40:AEP)	R254	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R178	1-216-809-11	METAL CHIP	100	5%	1/16W	R255	1-216-821-11	METAL CHIP	1K	5%	(RG40:US,CND)
					(RG40:US,CND)	R256	1-216-833-11	METAL CHIP	10K	5%	1/16W
R181	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R257	1-216-816-11	METAL CHIP	390	5%	(RG40:AEP)
					(RG40:AEP)	R258	1-216-813-11	METAL CHIP	220	5%	1/16W
R183	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R259	1-216-821-11	METAL CHIP	1K	5%	(RG40:AEP)
					(RG40:AEP)	R260	1-216-816-11	METAL CHIP	390	5%	1/16W
R201	1-216-797-11	METAL CHIP	10	5%	1/16W	R261	1-216-816-11	METAL CHIP	390	5%	1/16W
R202	1-216-797-11	METAL CHIP	10	5%	1/16W	R262	1-216-845-11	METAL CHIP	100K	5%	1/16W
R203	1-216-797-11	METAL CHIP	10	5%	1/16W						(DX30)
R204	1-216-797-11	METAL CHIP	10	5%	1/16W						1/16W
R205	1-216-805-11	METAL CHIP	47	5%	1/16W						1/16W

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R263	1-216-833-11	METAL CHIP	10K	5%	1/16W	R364	1-216-821-11	METAL CHIP	1K	5%	1/16W
R264	1-216-833-11	METAL CHIP	10K	5%	1/16W	R365	1-216-841-11	METAL CHIP	47K	5%	1/16W
R265	1-218-917-11	RES-CHIP	820K	5%	1/16W (DX30)	R366	1-216-833-11	METAL CHIP	10K	5%	1/16W
R266	1-218-917-11	RES-CHIP	820K	5%	1/16W (DX30)	R367	1-216-821-11	METAL CHIP	1K	5%	1/16W
R270	1-216-813-11	METAL CHIP	220	5%	1/16W	R368	1-216-845-11	METAL CHIP	100K	5%	1/16W
R271	1-216-857-11	METAL CHIP	1M	5%	1/16W	R369	1-216-837-11	METAL CHIP	22K	5%	1/16W
R272	1-216-857-11	METAL CHIP	1M	5%	1/16W	R370	1-216-829-11	METAL CHIP	4.7K	5%	1/16W (RG40)
R273	1-216-823-11	METAL CHIP	1.5K	5%	1/16W	R370	1-216-823-11	METAL CHIP	1.5K	5%	1/16W (DX30)
R274	1-216-823-11	METAL CHIP	1.5K	5%	1/16W	R371	1-216-841-11	METAL CHIP	47K	5%	1/16W
R275	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R372	1-216-841-11	METAL CHIP	47K	5%	1/16W
R276	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R373	1-216-841-11	METAL CHIP	47K	5%	1/16W (DX30:KR)
R277	1-216-845-11	METAL CHIP	100K	5%	1/16W	R373	1-216-829-11	METAL CHIP	4.7K	5%	1/16W (DX30:AR,AUS,E,E51,MX,SP,TH,RG40)
R278	1-216-845-11	METAL CHIP	100K	5%	1/16W	R374	1-216-841-11	METAL CHIP	47K	5%	1/16W
R301	1-216-833-11	METAL CHIP	10K	5%	1/16W	R375	1-216-809-11	METAL CHIP	100	5%	1/16W
R302	1-216-833-11	METAL CHIP	10K	5%	1/16W	R376	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R303	1-216-838-11	METAL CHIP	27K	5%	1/16W	R377	1-260-304-51	CARBON	10	5%	1/2W (RG40:AEP)
R304	1-216-838-11	METAL CHIP	27K	5%	1/16W	R378	1-260-304-51	CARBON	10	5%	1/2W (RG40:AEP)
R305	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R379	1-260-304-51	CARBON	10	5%	1/2W (RG40:AEP)
R306	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R380	1-260-304-51	CARBON	10	5%	1/2W (RG40:AEP)
R307	1-216-835-11	METAL CHIP	15K	5%	1/16W	R381	1-216-841-11	METAL CHIP	47K	5%	1/16W (RG40)
R308	1-216-835-11	METAL CHIP	15K	5%	1/16W	R381	1-216-842-11	METAL CHIP	56K	5%	1/16W
R309	1-216-857-11	METAL CHIP	1M	5%	1/16W	R382	1-216-842-11	METAL CHIP	56K	5%	1/16W (RG40)
R313	1-216-845-11	METAL CHIP	100K	5%	1/16W	R382	1-216-841-11	METAL CHIP	47K	5%	1/16W (DX30)
R314	1-216-845-11	METAL CHIP	100K	5%	1/16W	R383	1-216-833-11	METAL CHIP	10K	5%	1/16W
R315	1-216-839-11	METAL CHIP	33K	5%	1/16W	R384	1-216-833-11	METAL CHIP	10K	5%	1/16W
R316	1-216-839-11	METAL CHIP	33K	5%	1/16W	R385	1-216-839-11	METAL CHIP	33K	5%	1/16W
R317	1-216-845-11	METAL CHIP	100K	5%	1/16W	R386	1-216-837-11	METAL CHIP	22K	5%	1/16W
R318	1-216-850-11	METAL CHIP	270K	5%	1/16W	R387	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R320	1-216-847-11	METAL CHIP	150K	5%	1/16W	R388	1-216-837-11	METAL CHIP	22K	5%	1/16W
R321	1-216-833-11	METAL CHIP	10K	5%	1/16W	R389	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
R322	1-216-833-11	METAL CHIP	10K	5%	1/16W	R393	1-216-806-11	RES-CHIP	56	5%	1/16W
R323	1-216-813-11	METAL CHIP	220	5%	1/16W	R394	1-216-806-11	RES-CHIP	56	5%	1/16W
R324	1-216-833-11	METAL CHIP	10K	5%	1/16W	R601	1-216-821-11	METAL CHIP	1K	5%	1/16W
R325	1-216-835-11	METAL CHIP	15K	5%	1/16W	R602	1-216-819-11	METAL CHIP	680	5%	1/16W
R326	1-216-833-11	METAL CHIP	10K	5%	1/16W	R603	1-216-821-11	METAL CHIP	1K	5%	1/16W
R327	1-216-825-11	METAL CHIP	2.2K	5%	1/16W (DX30)	R604	1-216-819-11	METAL CHIP	680	5%	1/16W
R328	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R605	1-216-821-11	METAL CHIP	1K	5%	1/16W
R329	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R606	1-216-819-11	METAL CHIP	680	5%	1/16W
R331	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R607	1-216-809-11	METAL CHIP	100	5%	1/16W
R332	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R608	1-216-809-11	METAL CHIP	100	5%	1/16W
R333	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R609	1-216-833-11	METAL CHIP	10K	5%	1/16W
R334	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R610	1-216-809-11	METAL CHIP	100	5%	1/16W
R335	1-216-845-11	METAL CHIP	100K	5%	1/16W	R611	1-216-833-11	METAL CHIP	10K	5%	1/16W
R336	1-216-845-11	METAL CHIP	100K	5%	1/16W	R612	1-216-809-11	METAL CHIP	100	5%	1/16W
R337	1-216-833-11	METAL CHIP	10K	5%	1/16W	R613	1-216-833-11	METAL CHIP	10K	5%	1/16W
R338	1-216-833-11	METAL CHIP	10K	5%	1/16W	R614	1-216-809-11	METAL CHIP	100	5%	1/16W
R339	1-216-831-11	METAL CHIP	6.8K	5%	1/16W	R615	1-216-809-11	METAL CHIP	100	5%	1/16W
R340	1-216-831-11	METAL CHIP	6.8K	5%	1/16W	R616	1-216-809-11	METAL CHIP	100	5%	1/16W
R341	1-216-813-11	METAL CHIP	220	5%	1/16W	R617	1-216-809-11	METAL CHIP	100	5%	1/16W
R342	1-216-813-11	METAL CHIP	220	5%	1/16W	R618	1-216-833-11	METAL CHIP	10K	5%	1/16W
R343	1-216-833-11	METAL CHIP	10K	5%	1/16W (DX30)						
R344	1-216-833-11	METAL CHIP	10K	5%	1/16W (DX30)						
R361	1-215-891-11	METAL OXIDE	680	5%	2W						
R362	1-215-891-11	METAL OXIDE	680	5%	2W						
R363	1-216-821-11	METAL CHIP	1K	5%	1/16W						

HCD-DX30/RG40

MAIN MOTOR

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R619	1-216-809-11	METAL CHIP	100	5%	1/16W	R672	1-216-841-11	METAL CHIP	47K	5%	1/16W
R620	1-216-813-11	METAL CHIP	220	5%	1/16W	R673	1-216-833-11	METAL CHIP	10K	5%	1/16W
R621	1-216-813-11	METAL CHIP	220	5%	1/16W	R674	1-216-841-11	METAL CHIP	47K	5%	1/16W
R622	1-216-809-11	METAL CHIP	100	5%	1/16W	R675	1-216-841-11	METAL CHIP	47K	5%	1/16W
R623	1-216-809-11	METAL CHIP	100	5%	1/16W	R676	1-216-841-11	METAL CHIP	47K	5%	1/16W
R624	1-216-809-11	METAL CHIP	100	5%	1/16W	R677	1-216-841-11	METAL CHIP	47K	5%	1/16W
R625	1-216-833-11	METAL CHIP	10K	5%	1/16W	R678	1-216-841-11	METAL CHIP	47K	5%	1/16W
R626	1-216-809-11	METAL CHIP	100	5%	1/16W	R679	1-216-841-11	METAL CHIP	47K	5%	1/16W
R627	1-216-809-11	METAL CHIP	100	5%	1/16W	R680	1-216-833-11	METAL CHIP	10K	5%	1/16W
R628	1-216-809-11	METAL CHIP	100	5%	1/16W	R681	1-216-864-11	METAL CHIP	0	5%	1/16W
R629	1-216-809-11	METAL CHIP	100	5%	1/16W	R231A	1-216-821-11	METAL CHIP	1K	5%	1/16W
R630	1-216-809-11	METAL CHIP	100	5%	1/16W	R232A	1-216-821-11	METAL CHIP	1K	5%	1/16W
R631	1-216-809-11	METAL CHIP	100	5%	1/16W	< COMPOSITION CIRCUIT BLOCK >					
R632	1-216-833-11	METAL CHIP	10K	5%	1/16W	RB101	1-234-457-11	ENCAPSULATED COMPONENT			
R633	1-216-809-11	METAL CHIP	100	5%	1/16W	< VARIABLE RESISTOR >					
R634	1-216-833-11	METAL CHIP	10K	5%	1/16W	RV101	1-241-765-11	RES, ADJ, CARBON 22K			
R635	1-216-809-11	METAL CHIP	100	5%	1/16W	RV661	1-241-762-11	RES, ADJ, CARBON 2.2K(TAPE SPEED)			
R636	1-216-809-11	METAL CHIP	100	5%	1/16W	(DX30:TH,RG40)					
R637	1-216-809-11	METAL CHIP	100	5%	1/16W	< RELAY >					
R638	1-216-831-11	METAL CHIP	6.8K	5%	1/16W	RY371	1-755-373-11	RELAY			
R639	1-216-841-11	METAL CHIP	47K	5%	1/16W	< TRANSFORMER >					
R640	1-216-839-11	METAL CHIP	33K	5%	1/16W	T101	1-435-195-31	TRANSFORMER, DISCRIMINATOR			
					(RG40:AEP)	T102	1-234-477-11	ENCAPSULATED COMPONENT (RG40:AEP)			
R640	1-216-833-11	METAL CHIP	10K	5%	1/16W	< TERMINAL >					
					(RG40:US,CND)	TM101	1-694-555-11	TERMINAL BOARD (4P) (DX30)			
R640	1-216-841-11	METAL CHIP	47K	5%	1/16W	< VIBRATOR >					
					(DX30)	X101	1-760-549-31	VIBRATOR, CRYSTAL(4.5MHz)			
R641	1-216-837-11	METAL CHIP	22K	5%	1/16W	X102	1-579-900-21	VIBRATOR, CRYSTAL(4.332MHz) (RG40:AEP)			
					(DX30:AR,E,E51,MX)	X601	1-567-098-41	VIBRATOR, CRYSTAL(32.768kHz)			
R641	1-216-823-11	METAL CHIP	1.5K	5%	1/16W	X602	1-781-107-21	VIBRATOR, SERAMIC(16MHz)			
					(DX30:AUS,KR,SP,TH)	*****					
R643	1-216-821-11	METAL CHIP	1K	5%	1/16W	1-675-910-14 MOTOR BOARD					
R644	1-216-851-11	METAL CHIP	330K	5%	1/16W	*****					
R645	1-216-833-11	METAL CHIP	10K	5%	1/16W	< CAPACITOR >					
R646	1-216-833-11	METAL CHIP	10K	5%	1/16W	C721	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
R647	1-216-864-11	METAL CHIP	0	5%	1/16W	< CONNECTOR >					
					(DX30)	CN721	1-770-516-31	CONNECTOR, FFC 8P			
R648	1-216-864-11	METAL CHIP	0	5%	1/16W	CN722	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE)4P			
					(DX30)	< SWITCH >					
R649	1-216-833-11	METAL CHIP	10K	5%	1/16W	S701	1-771-822-11	SWITCH, LEVER (SLIDE)(OPEN/CLOSE SW)			
R650	1-216-833-11	METAL CHIP	10K	5%	1/16W	*****					
R652	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R655	1-216-864-11	METAL CHIP	0	5%	1/16W						
R656	1-216-809-11	METAL CHIP	100	5%	1/16W						
R657	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R658	1-216-809-11	METAL CHIP	100	5%	1/16W						
R659	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R660	1-216-809-11	METAL CHIP	100	5%	1/16W						
R661	1-216-829-11	METAL CHIP	4.7K	5%	1/16W						
R662	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R663	1-216-841-11	METAL CHIP	47K	5%	1/16W						
R664	1-216-841-11	METAL CHIP	47K	5%	1/16W						
R665	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R670	1-216-828-11	METAL CHIP	3.9K	5%	1/16W						
					(RG40)						
R670	1-216-827-11	METAL CHIP	3.3K	5%	1/16W						
					(DX30)						
R671	1-216-841-11	METAL CHIP	47K	5%	1/16W						

PANEL

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
	A-4476-797-A	PANEL BOARD, COMPLETE (DX30:AR,AUS,E,E51,MX,SP) *****		C756	1-162-294-31	CERAMIC	0.001uF 10% 50V (DX30)
	A-4725-721-A	PANEL BOARD, COMPLETE (DX30:KR) *****		C757	1-162-306-11	CERAMIC	0.01uF 30.00% 16V (DX30)
	A-4725-982-A	PANEL BOARD, COMPLETE (DX30:TH) *****		C758	1-126-956-11	ELECT	0.1uF 20.00% 50V (DX30)
	A-4726-035-A	PANEL BOARD, COMPLETE (RG40) *****		C759	1-162-290-31	CERAMIC	470PF 10% 50V (DX30)
	7-685-872-09	SCREW +BVTT 3X8 (S)		C760	1-126-961-11	ELECT	2.2uF 20.00% 50V (DX30)
		< CAPACITOR >		C761	1-162-215-31	CERAMIC	47PF 5% 50V (DX30)
C701	1-126-966-11	ELECT 33uF 20.00% 50V		C762	1-162-282-31	CERAMIC	100PF 10% 50V (DX30)
C702	1-126-966-11	ELECT 33uF 20.00% 50V		C763	1-126-961-11	ELECT	2.2uF 20.00% 50V (DX30)
C703	1-162-306-11	CERAMIC 0.01uF 30.00% 16V		C765	1-126-964-11	ELECT	10uF 20.00% 50V (DX30)
C704	1-124-589-11	ELECT 47uF 20% 16V		C766	1-126-964-11	ELECT	10uF 20.00% 50V (DX30)
C705	1-162-294-31	CERAMIC 0.001uF 10% 50V		C767	1-164-159-11	CERAMIC	0.1uF 50V (DX30)
C706	1-162-282-31	CERAMIC 100PF 10% 50V (RG40)		C770	1-164-159-11	CERAMIC	0.1uF 50V
C706	1-162-294-31	CERAMIC 0.001uF 10% 50V (DX30)		C775	1-162-306-11	CERAMIC	0.01uF 30.00% 16V
C707	1-162-282-31	CERAMIC 100PF 10% 50V (RG40)		C777	1-164-159-11	CERAMIC	0.1uF 50V (DX30)
C707	1-162-294-31	CERAMIC 0.001uF 10% 50V (DX30)		C778	1-164-159-11	CERAMIC	0.1uF 50V
C708	1-162-282-31	CERAMIC 100PF 10% 50V		C779	1-164-159-11	CERAMIC	0.1uF 50V
C709	1-162-282-31	CERAMIC 100PF 10% 50V		C780	1-164-159-11	CERAMIC	0.1uF 50V (DX30)
C710	1-162-282-31	CERAMIC 100PF 10% 50V					
C711	1-162-282-31	CERAMIC 100PF 10% 50V					
C712	1-162-282-31	CERAMIC 100PF 10% 50V					
C713	1-162-282-31	CERAMIC 100PF 10% 50V					
		< CONNECTOR >					
C714	1-162-282-31	CERAMIC 100PF 10% 50V		CN711	1-793-767-11	CONNECTOR, BOARD TO BOARD 30P	
C715	1-162-282-31	CERAMIC 100PF 10% 50V		* CN712	1-564-729-11	PIN, CONNECTOR (SMALL TYPE)13P (RG40)	
C716	1-161-494-00	CERAMIC 0.022uF 25V		CN712	1-785-339-11	PIN, CONNECTOR(LIGHT ANGLE)13P (DX30)	
C720	1-162-306-11	CERAMIC 0.01uF 30.00% 16V					
C721	1-124-589-11	ELECT 47uF 20% 16V					
		< DIODE >					
C722	1-162-282-31	CERAMIC 100PF 10% 50V		D701	8-719-071-44	DIODE SEL5223C-TP15(I \downarrow (POWER))	
C723	1-162-282-31	CERAMIC 100PF 10% 50V		D702	8-719-084-19	DIODE LTL77HKYTNN(MD(VIDEO)) (RG40)	
C724	1-162-282-31	CERAMIC 100PF 10% 50V		D702	8-719-084-40	DIODE SEL5955A-TP15(MD(VIDEO)) (DX30)	
C725	1-162-282-31	CERAMIC 100PF 10% 50V		D703	8-719-084-19	DIODE LTL77HKYTNN(TAPE A/B) (RG40)	
C726	1-162-282-31	CERAMIC 100PF 10% 50V		D703	8-719-084-40	DIODE SEL5955A-TP15(TAPE A/B) (DX30)	
C727	1-162-282-31	CERAMIC 100PF 10% 50V		D704	8-719-084-19	DIODE LTL77HKYTNN(CD) (RG40)	
C728	1-162-282-31	CERAMIC 100PF 10% 50V		D704	8-719-084-40	DIODE SEL5955A-TP15(CD) (DX30)	
C729	1-162-282-31	CERAMIC 100PF 10% 50V		D705	8-719-084-19	DIODE LTL77HKYTNN(TUNER/BAND) (RG40)	
C730	1-162-282-31	CERAMIC 100PF 10% 50V		D705	8-719-084-40	DIODE SEL5955A-TP15(TUNER/BAND) (DX30)	
C731	1-162-282-31	CERAMIC 100PF 10% 50V		D706	8-719-084-19	DIODE LTL77HKYTNN(GAME) (RG40)	
C732	1-162-282-31	CERAMIC 100PF 10% 50V		D706	8-719-084-40	DIODE SEL5955A-TP15(GAME) (DX30)	
C733	1-162-282-31	CERAMIC 100PF 10% 50V		D713	8-719-991-33	DIODE 1SS133T-77	
C734	1-162-306-11	CERAMIC 0.01uF 30.00% 16V		D716	8-719-084-19	DIODE LTL77HKYTNN(MD(VIDEO)) (RG40)	
C735	1-162-306-11	CERAMIC 0.01uF 30.00% 16V		D716	8-719-084-40	DIODE SEL5955A-TP15(MD(VIDEO)) (DX30)	
C736	1-162-294-31	CERAMIC 0.001uF 10% 50V		D717	8-719-084-19	DIODE LTL77HKYTNN(TAPE A/B) (RG40)	
C737	1-162-294-31	CERAMIC 0.001uF 10% 50V		D717	8-719-084-40	DIODE SEL5955A-TP15(TAPE A/B) (DX30)	
C738	1-104-665-11	ELECT 100uF 20.00% 10V (DX30)		D718	8-719-084-19	DIODE LTL77HKYTNN(CD) (RG40)	
C739	1-104-665-11	ELECT 100uF 20.00% 10V (DX30)		D718	8-719-084-40	DIODE SEL5955A-TP15(CD) (DX30)	
C754	1-162-215-31	CERAMIC 47PF 5% 50V (DX30)		D719	8-719-084-19	DIODE LTL77HKYTNN(TUNER/BAND) (RG40)	
C755	1-126-957-11	ELECT 0.22uF 20.00% 50V (DX30)		D719	8-719-084-40	DIODE SEL5955A-TP15(TUNER/BAND) (DX30)	
				D720	8-719-084-19	DIODE LTL77HKYTNN(GAME) (RG40)	
				D720	8-719-084-40	DIODE SEL5955A-TP15(GAME) (DX30)	
				D721	8-719-991-33	DIODE 1SS133T-77	

HCD-DX30/RG40

PANEL

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< FERRITE BEAD >				R756	1-247-807-31	CARBON	100 5% 1/4W
FB701	1-412-473-41	INDUCTOR	OUH	R757	1-249-429-11	CARBON	10K 5% 1/4W
< FLUORESCENT INDICATOR >							
FLD1	1-518-729-11	INDICATOR TUBE, FLUORESCENT		R758	1-247-807-31	CARBON	100 5% 1/4W
< IC >				R759	1-249-429-11	CARBON	10K 5% 1/4W
IC701	6-800-220-01	IC uPD780232GC-031-8BT		R760	1-247-807-31	CARBON	100 5% 1/4W
IC702	8-759-710-97	IC NJM4565M(TE2) (DX30)		R761	1-249-429-11	CARBON	10K 5% 1/4W
SEN701	8-759-827-70	IC NJL64H400A-1(2)		R762	1-247-807-31	CARBON	100 5% 1/4W
< JACK >				R763	1-249-429-11	CARBON	10K 5% 1/4W
J701	1-691-293-21	JACK(PHONES)(VIDEO/AUDIO IN PUT)		R764	1-249-429-11	CARBON	10K 5% 1/4W
J702	1-815-603-11	JACK(MIC) (DX30)		R765	1-247-903-00	CARBON	1M 5% 1/4W
J704	1-815-684-11	JACK, PIN 3P		R766	1-247-807-31	CARBON	100 5% 1/4W
< TERMINAL >				R767	1-249-401-11	CARBON	47 5% 1/4W F
JK101	1-694-556-21	TERMINAL BOARD (ANT.PAL) (RG40:AEP)		R768	1-249-417-11	CARBON	1K 5% 1/4W F
JK101	1-694-555-11	TERMINAL BOARD (4P) R(G40:US,CND)		R769	1-249-417-11	CARBON	1K 5% 1/4W F
< TRANSISTOR >				R770	1-249-417-11	CARBON	(DX30)
Q701	8-729-900-63	TRANSISTOR	BN1F4M-TP	R771	1-249-430-11	CARBON	12K 5% 1/4W
Q702	8-729-900-80	TRANSISTOR	BA1A4M-TP	R772	1-249-429-11	CARBON	(DX30)
Q703	8-729-900-80	TRANSISTOR	BA1A4M-TP	R773	1-249-429-11	CARBON	10K 5% 1/4W
Q704	8-729-900-80	TRANSISTOR	BA1A4M-TP	R774	1-249-417-11	CARBON	(DX30)
Q705	8-729-900-80	TRANSISTOR	BA1A4M-TP	R775	1-249-433-11	CARBON	22K 5% 1/4W
Q706	8-729-900-80	TRANSISTOR	BA1A4M-TP	R776	1-247-807-31	CARBON	(DX30)
Q711	8-729-119-78	TRANSISTOR	2SC2785TP-HFE (DX30)	R777	1-249-429-11	CARBON	100 5% 1/4W
< RESISTOR >				R778	1-249-401-11	CARBON	(DX30)
R701	1-249-410-11	CARBON	270 5% 1/4W F	R779	1-247-885-00	CARBON	10K 5% 1/4W
R702	1-249-411-11	CARBON	330 5% 1/4W	R780	1-247-807-31	CARBON	(DX30)
R722	1-247-843-11	CARBON	3.3K 5% 1/4W	R781	1-249-441-11	CARBON	100K 5% 1/4W
R723	1-249-425-11	CARBON	4.7K 5% 1/4W F	R782	1-249-403-11	CARBON	(DX30)
R724	1-249-427-11	CARBON	6.8K 5% 1/4W F	R783	1-249-417-11	CARBON	47 5% 1/4W F
R725	1-249-429-11	CARBON	10K 5% 1/4W	R784	1-247-807-31	CARBON	100 5% 1/4W
R738	1-249-417-11	CARBON	1K 5% 1/4W F	R785	1-249-401-11	CARBON	(DX30)
R738	1-249-421-11	CARBON	2.2K 5% 1/4W F	R786	1-247-885-00	CARBON	180K 5% 1/4W
R740	1-249-404-00	CARBON	82 5% 1/4W F	R787	1-249-429-11	CARBON	(DX30)
R741	1-249-429-11	CARBON	10K 5% 1/4W	R788	1-249-417-11	CARBON	100 5% 1/4W
R742	1-249-429-11	CARBON	10K 5% 1/4W	R789	1-249-401-11	CARBON	(DX30)
R743	1-249-434-11	CARBON	27K 5% 1/4W	R790	1-247-807-31	CARBON	10K 5% 1/4W
R744	1-249-434-11	CARBON	27K 5% 1/4W	R791	1-249-417-11	CARBON	(DX30)
R747	1-249-429-11	CARBON	10K 5% 1/4W	R792	1-249-441-11	CARBON	100K 5% 1/4W
R748	1-249-429-11	CARBON	10K 5% 1/4W	R793	1-249-401-11	CARBON	(DX30)
R749	1-249-429-11	CARBON	10K 5% 1/4W	R794	1-247-885-00	CARBON	100 5% 1/4W
R750	1-249-429-11	CARBON	10K 5% 1/4W	R795	1-249-429-11	CARBON	(DX30)
R752	1-249-429-11	CARBON	10K 5% 1/4W	R796	1-249-417-11	CARBON	100 5% 1/4W
R753	1-249-429-11	CARBON	10K 5% 1/4W	R797	1-249-401-11	CARBON	(DX30)
R755	1-249-429-11	CARBON	10K 5% 1/4W	R798	1-247-807-31	CARBON	100 5% 1/4W
< VIBRATOR >				R799	1-249-429-11	CARBON	(DX30)
R740	1-249-404-00	CARBON	82 5% 1/4W F	R800	1-249-417-11	CARBON	100 5% 1/4W
R741	1-249-429-11	CARBON	10K 5% 1/4W	R801	1-249-401-11	CARBON	(DX30)
R742	1-249-429-11	CARBON	10K 5% 1/4W	R802	1-247-807-31	CARBON	100 5% 1/4W
R743	1-249-434-11	CARBON	27K 5% 1/4W	R803	1-249-401-11	CARBON	(DX30)
R744	1-249-434-11	CARBON	27K 5% 1/4W	R804	1-247-807-31	CARBON	100 5% 1/4W
R747	1-249-429-11	CARBON	10K 5% 1/4W	R805	1-249-401-11	CARBON	(DX30)
R748	1-249-429-11	CARBON	10K 5% 1/4W	R806	1-247-807-31	CARBON	100 5% 1/4W
R749	1-249-429-11	CARBON	10K 5% 1/4W	R807	1-249-401-11	CARBON	(DX30)
R750	1-249-429-11	CARBON	10K 5% 1/4W	R808	1-247-807-31	CARBON	100 5% 1/4W
R752	1-249-429-11	CARBON	10K 5% 1/4W	R809	1-249-401-11	CARBON	(DX30)
R753	1-249-429-11	CARBON	10K 5% 1/4W	R810	1-247-807-31	CARBON	100 5% 1/4W
R755	1-249-429-11	CARBON	10K 5% 1/4W	R811	1-249-401-11	CARBON	(DX30)
< SWITCH >				R812	1-247-807-31	CARBON	100 5% 1/4W
R742	1-249-429-11	CARBON	10K 5% 1/4W	R813	1-249-401-11	CARBON	(DX30)
R743	1-249-434-11	CARBON	27K 5% 1/4W	R814	1-247-807-31	CARBON	100 5% 1/4W
R744	1-249-434-11	CARBON	27K 5% 1/4W	R815	1-249-401-11	CARBON	(DX30)
R747	1-249-429-11	CARBON	10K 5% 1/4W	R816	1-247-807-31	CARBON	100 5% 1/4W
R748	1-249-429-11	CARBON	10K 5% 1/4W	R817	1-249-401-11	CARBON	(DX30)
R749	1-249-429-11	CARBON	10K 5% 1/4W	R818	1-247-807-31	CARBON	100 5% 1/4W
R750	1-249-429-11	CARBON	10K 5% 1/4W	R819	1-249-401-11	CARBON	(DX30)
R752	1-249-429-11	CARBON	10K 5% 1/4W	R820	1-247-807-31	CARBON	100 5% 1/4W
R753	1-249-429-11	CARBON	10K 5% 1/4W	R821	1-249-401-11	CARBON	(DX30)
R755	1-249-429-11	CARBON	10K 5% 1/4W	R822	1-247-807-31	CARBON	100 5% 1/4W
< VARIABLE RESISTOR >				R823	1-249-401-11	CARBON	(DX30)
VR701	1-418-725-11	ENCODER, ROTARY (12 TYPE)(VOLUME)		R824	1-247-807-31	CARBON	100 5% 1/4W
VR703	1-225-739-11	RES, VAR CARBON 50K(MIC LEVEL) (DX30)		R825	1-249-429-11	CARBON	(DX30)

POWER AMP

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks	
	A-4725-717-A	POWER AMP BOARD, COMPLETE (DX30:KR)	*****		C592	1-135-832-11	ELECT	2200uF 20% 50V (RG40)
	A-4725-997-A	POWER AMP BOARD, COMPLETE (DX30:AR,E,E51,MX)	*****		C592	1-137-840-11	ELECT	2200uF 20% 63V (DX30:AR,E,E51,MX)
	A-4726-735-A	POWER AMP BOARD, COMPLETE (RG40:AEP)	*****		C592	1-135-928-11	ELECT	2200uF 20% 63V (DX30:AUS,KR,SP,TH)
	A-4726-753-A	POWER AMP BOARD, COMPLETE (RG40:US,CND)	*****				< CONNECTOR >	
	A-4726-019-A	POWER AMP BOARD, COMPLETE (DX30:TH)	*****	CN502	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P		
	A-4476-801-A	POWER AMP BOARD, COMPLETE (DX30:AUS,SP)	*****	CN503	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P		
				CN504	1-785-314-11	PIN, CONNECTOR (STRAIGHT) 2P (DX30)		
							< DIODE >	
	C501	1-126-964-11	ELECT	10uF	20.00%	50V	D501 8-719-991-33 DIODE 1SS133T-77	
	C502	1-162-290-31	CERAMIC	470PF	10%	50V (RG40)	D502 8-719-991-33 DIODE 1SS133T-77	
	C502	1-162-294-31	CERAMIC	0.001uF	10%	50V (DX30)	D541 8-719-510-68 DIODE D5SBA204101	
	C503	1-162-282-31	CERAMIC	100PF	10%	50V	D542 8-719-200-82 DIODE 11ES2-NTA1B	
	C504	1-128-551-11	ELECT	22uF	20.00%	25V	D543 8-719-200-82 DIODE 11ES2-NTA1B	
	C507	1-130-493-00	MYLAR	0.068uF	5%	50V	D551 8-719-991-33 DIODE 1SS133T-77	
	C508	1-130-493-00	MYLAR	0.068uF	5%	50V		
	C509	1-126-965-11	ELECT	22uF	20.00%	50V (RG40)		
	C509	1-128-560-11	ELECT	22uF	20.00%	100V (DX30)	* EP501 1-537-738-21 TERMINAL, EARTH (DX30:KR,RG40)	
	C511	1-162-306-11	CERAMIC	0.01uF	30.00%	16V	* EP502 1-537-738-21 TERMINAL, EARTH	
	C512	1-162-294-31	CERAMIC	0.001uF	10%	50V (DX30:KR,RG40:AEP)		
	C513	1-164-159-11	CERAMIC	0.1uF		50V (RG40:AEP)	< IC >	
	C513	1-162-294-31	CERAMIC	0.001uF	10%	50V (DX30:KR)	IC501 8-749-016-95 IC STK402-100S (RG40:US,CND)	
	C541	1-130-777-00	MYLAR	0.1uF	10.00%	100V	IC501 8-749-016-94 IC STK402-090S (RG40:AEP)	
	C542	1-135-832-11	ELECT	2200uF	20%	50V (RG40)	IC501 8-749-016-96 IC STK402-120S (DX30)	
	C542	1-137-840-11	ELECT	2200uF	20%	63V (DX30:AR,E,E51,MX)		
	C542	1-135-928-11	ELECT	2200uF	20%	63V (DX30:AUS,KR,SP,TH)		
	C543	1-164-159-11	CERAMIC	0.1uF		50V	< TRANSISTOR >	
	C544	1-126-942-61	ELECT	1000uF	20.00%	25V	Q501 8-729-140-84 TRANSISTOR 2SC1841TP-PAFAEA	
	C545	1-128-549-11	ELECT	3300uF	20.00%	35V	Q503 8-729-140-82 TRANSISTOR 2SA988TP-PAFAEA	
	C551	1-126-964-11	ELECT	10uF	20.00%	50V	Q504 8-729-140-84 TRANSISTOR 2SC1841TP-PAFAEA	
	C552	1-162-290-31	CERAMIC	470PF	10%	50V (RG40)	Q551 8-729-140-84 TRANSISTOR 2SC1841TP-PAFAEA	
	C552	1-162-294-31	CERAMIC	0.001uF	10%	50V (DX30)	Q581 8-729-140-84 TRANSISTOR 2SC1841TP-PAFAEA	
	C553	1-162-282-31	CERAMIC	100PF	10%	50V	Q582 8-729-119-78 TRANSISTOR 2SC2785TP-HFE (DX30)	
	C554	1-128-551-11	ELECT	22uF	20.00%	25V	Q583 8-729-900-36 TRANSISTOR BA1F4M-TP (DX30)	
	C557	1-130-493-00	MYLAR	0.068uF	5%	50V	Q584 8-729-119-78 TRANSISTOR 2SC2785TP-HFE (DX30)	
	C558	1-130-493-00	MYLAR	0.068uF	5%	50V		
	C559	1-126-965-11	ELECT	22uF	20.00%	50V (RG40)		
	C559	1-128-560-11	ELECT	22uF	20.00%	100V (DX30)		
	C591	1-130-777-00	MYLAR	0.1uF	10.00%	100V		
							< RESISTOR >	
				R501	1-249-417-11	CARBON 1K 5% 1/4W F		
				R502	1-249-438-11	CARBON 56K 5% 1/4W		
				R503	1-249-415-11	CARBON 680 5% 1/4W F (RG40)		
				R503	1-249-416-11	CARBON 820 5% 1/4W F (DX30)		
				R504	1-249-435-11	CARBON 33K 5% 1/4W F (RG40)		
				R504	1-249-438-11	CARBON 56K 5% 1/4W F (DX30)		
				R505	1-249-417-11	CARBON 1K 5% 1/4W F		
				R506	1-249-431-11	CARBON 15K 5% 1/4W		
				R507	1-249-441-11	CARBON 100K 5% 1/4W		
				▲ R508	1-217-151-00	METAL 0.22 10% 2W (RG40)		

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-DX30/RG40

POWER AMP SENSOR SUB TRANS

Ref. No.	Part No.	Description		Remarks	Ref. No.	Part No.	Description	Remarks	
△R508	1-217-156-00	METAL	0.22	20%	5W (DX30)	1-681-442-11	SENSOR BOARD	*****	
R509	1-260-076-11	CARBON	10	5%	1/2W			< THERMISTOR >	
△R510	1-217-151-00	METAL	0.22	10%	2W (RG40)				
△R510	1-217-156-00	METAL	0.22	20%	5W (DX30)	TH501	1-807-796-11	THERMISTOR	
△R511	1-212-881-11	FUSIBLE	100	5%	1/4W			*****	
△R512	1-202-972-61	FUSIBLE	1	5%	1/4W	1-681-445-11	SUB TRANS BOARD	*****	
R513	1-249-433-11	CARBON	22K	5%	1/4W (DX30)			< CAPACITOR >	
R514	1-249-421-11	CARBON	2.2K	5%	1/4W F	C901	1-113-925-11	CERAMIC	0.01uF 20.00% 250V
R515	1-249-433-11	CARBON	22K	5%	1/4W	C902	1-126-768-11	ELECT	2200uF 20.00% 16V
R516	1-249-429-11	CARBON	10K	5%	1/4W	C903	1-126-933-11	ELECT	100uF 20.00% 16V
R517	1-249-421-11	CARBON	2.2K	5%	1/4W F				
R518	1-249-429-11	CARBON	10K	5%	1/4W			< CONNECTOR >	
R519	1-249-433-11	CARBON	22K	5%	1/4W (DX30)	* CN2	1-564-321-21	PIN, CONNECTOR 2P (DX30:AUS,KR,MX,TH,RG40)	
R520	1-249-441-11	CARBON	100K	5%	1/4W (DX30)	CN2	1-568-106-11	PIN, CONNECTOR 4P (DX30:AR,E,E51,SP)	
R521	1-249-441-11	CARBON	100K	5%	1/4W (DX30)	CN901	1-564-321-00	PIN, CONNECTOR 2P	
R522	1-249-441-11	CARBON	100K	5%	1/4W (DX30)	* CN903	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P (RG40)	
R523	1-249-409-11	CARBON	220	5%	1/4W F (DX30)	CN903	1-785-315-11	PIN, CONNECTOR (STRAIGHT) 3P (DX30)	
R524	1-247-897-11	CARBON	560K	5%	1/4W (DX30)				
R525	1-249-437-11	CARBON	47K	5%	1/4W (DX30)				
R541	1-260-115-11	CARBON	22K	5%	1/2W			< DIODE >	
R551	1-249-417-11	CARBON	1K	5%	1/4W F	D901	8-719-991-33	DIODE 1SS133T-77	
R552	1-249-438-11	CARBON	56K	5%	1/4W	D902	8-719-200-82	DIODE 11ES2-NTA1B	
R553	1-249-415-11	CARBON	680	5%	1/4W F (RG40)	D903	8-719-200-82	DIODE 11ES2-NTA1B	
R553	1-249-416-11	CARBON	820	5%	1/4W F (DX30)	D904	8-719-200-82	DIODE 11ES2-NTA1B	
R554	1-249-435-11	CARBON	33K	5%	1/4W (RG40)	D905	8-719-200-82	DIODE 11ES2-NTA1B	
R554	1-249-438-11	CARBON	56K	5%	1/4W (DX30)			< IC >	
R555	1-249-417-11	CARBON	1K	5%	1/4W F	IC901	8-759-158-62	IC TA78057S	
R556	1-249-431-11	CARBON	15K	5%	1/4W			< TRANSISTOR >	
R557	1-249-441-11	CARBON	100K	5%	1/4W	Q901	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
△R558	1-217-151-00	METAL	0.22	10%	2W (RG40)			< RESISTOR >	
△R558	1-217-156-00	METAL	0.22	20%	5W (DX30)	R902	1-249-429-11	CARBON 10K 5% 1/4W	
R559	1-260-076-11	CARBON	10	5%	1/2W			< RELAY >	
△R560	1-217-151-00	METAL	0.22	10%	2W (RG40)	RY901	1-755-276-11	RELAY, POWER	
△R560	1-217-156-00	METAL	0.22	20%	5W (DX30)			< TRANSFORMER >	
△R561	1-212-881-11	FUSIBLE	100	5%	1/4W	△T901	1-435-828-11	TRANSFORMER, POWER (DX30:AR,AUS,E,E51,KR,MX,SP,TH)	
R581	1-249-435-11	CARBON	33K	5%	1/4W	△T901	1-435-824-21	TRANSFORMER, POWER (RG40:AEP)	
R582	1-249-435-11	CARBON	33K	5%	1/4W	△T901	1-435-823-11	TRANSFORMER, POWER (RG40:US,CND)	
R591	1-260-115-11	CARBON	22K	5%	1/2W			*****	

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

VIDEO OUT

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

Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce homologuée.

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.