

HCD-GNX60/GNX70/ GX9900

SERVICE MANUAL

Ver. 1.1 2006.06



Photo : HCD-GNX70

US Model
HCD-GX9900

E Model

Australian Model
HCD-GNX60/GNX70

www.DataSheet4U.com

- HCD-GNX60/GNX70/GX9900 are the Amplifier, CD player, tape deck and tuner section in MHC-GNX60/GNX70/GX9900.

| | | |
|-----------------|------------------------------------|-----------------|
| CD Section | Model Name Using Similar Mechanism | HCD-GN880 |
| | CD Mechanism Type | CDM74-F1BD81 |
| | Base Unit Name | BU-F1BD81A |
| | Optical Pick-up Name | KSM-215DCP/C2NP |
| TAPE Section | Model Name Using Similar Mechanism | NEW |
| | Tape Transport Mechanism Type | CMAT5Z2 |

SPECIFICATIONS

AUDIO POWER SPECIFICATION (MHC-GX9900 USA model only) POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6-ohm loads, both channels driven, from 120 Hz – 10 kHz; rates 230 watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 miliwatts to rated output.

Amplifier section MHC-GX9900

Total harmonic distortion Less than 0.1%
(6 ohms at 1 kHz, 100 W)

MHC-GNX70

The following are measured at
Mexican model: AC 127 V, 60 Hz
Other models: AC 120, 220, 240 V, 60 Hz
DIN power output (rated) 170 + 170 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
220 + 220 watts (6 ohms at 1 kHz, 10% THD)

MHC-GNX60

The following are measured at
Mexican model: AC 127 V, 60 Hz
Brazil model: AC 127 V or 220 V, 60 Hz
Other models: AC 120, 220, 240 V, 50/60 Hz
DIN power output (rated) 150 + 150 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
200 + 200 watts (6 ohms at 1 kHz, 10% THD)

Inputs

VIDEO/MD (AUDIO) IN (phono jacks):
voltage 250/450 mV,
impedance 47 kilohms
TV (AUDIO) IN (phono jack):
voltage 250 mV,
impedance 47 kilohms
MIC (phone jack):
sensitivity 1 mV,
impedance 10 kilohms

Outputs

PHONES (stereo mini jack): accepts headphones of
8 ohms or more
FRONT SPEAKER: Use only the supplied speaker
• SS-GNX100 (MHC-GNX70/GX9900)
• SS-GNX60 (MHC-GNX60)
SURROUND SPEAKER: Use only the supplied speaker
• SS-RSX80 (MHC-GNX70/GX9900)

Disc player section

System Compact disc and digital audio system
Laser Semiconductor laser (λ=780 nm)
Emission duration: continuous
Laser Output Max. 44.6 mW*
*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)
Wave length 780 – 790 nm
Signal-to-noise ratio More than 90 dB
Dynamic range More than 90 dB

OPTICAL CD DIGITAL OUT (Square optical connector jack, rear panel) (For MHC-GNX60/GNX70)

Wave length 660 nm
Output Level –18 dBm

– Continued on next page –

Mini Hi-Fi COMPONENT SYSTEM

9-879-532-02
2006F02-1
© 2006.06

Sony Corporation
Home Audio Division
Published by Sony Techno Create Corporation

SONY
www.DataSheet4U.com

HCD-GNX60/GNX70/GX9900

Tape deck section

| | |
|--------------------|---|
| Recording system | 4-track 2-channel stereo |
| Frequency response | 50 – 13,000 Hz (± 3 dB), using Sony TYPE I tape |

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

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

AM tuner section

Tuning range

North and Latin American models:

530 – 1,710 kHz
(with the interval set at 10 kHz)

531 – 1,710 kHz
(with the interval set at 9 kHz)

Other models:

531 – 1,602 kHz
(with the interval set at 9 kHz)

530 – 1,710 kHz
(with the interval set at 10 kHz)

Antenna

AM loop antenna

Antenna terminals

External antenna terminal

Intermediate frequency

450 kHz

General

Power requirements

| | |
|-----------------------|--|
| North American model: | 120 V AC, 60Hz |
| Australian model: | 230 – 240 V AC, 50/60 Hz |
| Argentina model: | 220 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

| | |
|------------------------------|----------------------|
| MHC-GX9900 | 250 watts |
| MHC-GNX70 | 225 watts |
| MHC-GNX60 | 200 watts |
| Dimensions (w/h/d) (Approx.) | 280 × 360 × 398.5 mm |
| Mass (Approx.) | |
| HCD-GNX70 | 12.1 kg |
| HCD-GX9900 | 11.8 kg |
| HCD-GNX60 | 11.3 kg |

Design and specifications are subject to change without notice.

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.

CAUTION

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

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

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

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.

SAFETY CHECK-OUT

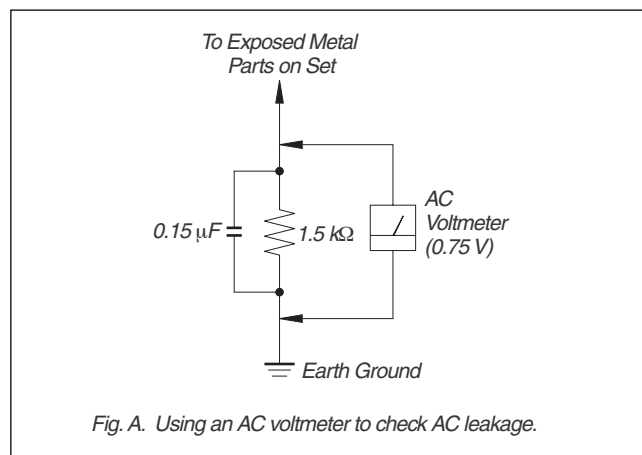
After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

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)



Unleaded solder

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead. (Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time. Soldering irons using a temperature regulator should be set to about 350°C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

TABLE OF CONTENTS

| | | | |
|---|----|---|----|
| 1. SERVICING NOTES | 4 | 7. DIAGRAMS | |
| 2. GENERAL | | 7-1. Circuit Board Location | 26 |
| Location of Controls | 5 | 7-2. Block Diagram – CD Section – | 27 |
| 3. DISASSEMBLY | | 7-3. Block Diagram – Tape Section – | 28 |
| 3-1. Disassembly Flow | 7 | 7-4. Block Diagram – Main Section – | 29 |
| 3-2. Side Panel, Top Case | 8 | 7-5. Block Diagram – AMP Section – | 30 |
| 3-3. Loading Panel Assy | 8 | 7-6. Block Diagram – Display Section – | 31 |
| 3-4. Front Panel Assy | 9 | 7-7. Printed Wiring Board – CD Board – | 32 |
| 3-5. Tuner Pack | 9 | 7-8. Schematic Diagram – CD Board – | 33 |
| 3-6. Tape Mechanism Deck, Mic Board | 10 | 7-9. Printed Wiring Board – CD Mechanism Boards – | 34 |
| 3-7. Panel Board, CD-SW Board | 10 | 7-10. Schematic Diagram – CD Mechanism Boards – | 35 |
| 3-8. CD Mechanism Deck | 11 | 7-11. Printed Wiring Boards – Main Board – | 36 |
| 3-9. Back Panel | 11 | 7-12. Schematic Diagram – Main Board (1/3) – | 37 |
| 3-10. Primary Board | 12 | 7-13. Schematic Diagram – Main Board (2/3) – | 38 |
| 3-11. Power AMP PC Board Assy, Main Board | 12 | 7-14. Schematic Diagram – Main Board (3/3) – | 39 |
| 3-12. Surround Board, PA Board | 13 | 7-15. Printed Wiring Boards – Panel Board – | 40 |
| 3-13. Power Transformer (T1200) | 13 | 7-16. Schematic Diagram – Panel Board – | 41 |
| 3-14. Driver Board, SW Board | 14 | 7-17. Printed Wiring Board – CD-SW, Jog, Mic Boards – | 42 |
| 3-15. CD Board | 14 | 7-18. Schematic Diagram – CD-SW, Jog, Mic Boards – | 43 |
| 3-16. Sensor Board | 15 | 7-19. Printed Wiring Board – PA Board – | 44 |
| 3-17. Motor (TB) Board | 15 | 7-20. Schematic Diagram – PA Board – | 45 |
| 3-18. Motor (LD) Board | 16 | 7-21. Printed Wiring Board – Trans, Primary Boards – | 46 |
| 4. TEST MODE | 17 | 7-22. Schematic Diagram – Trans, Primary Boards – | 47 |
| 5. MECHANICAL ADJUSTMENTS | 21 | 7-23. IC Pin Function Description | 50 |
| 6. ELECTRICAL ADJUSTMENTS | | 8. EXPLODED VIEWS | |
| Deck section | 21 | 8-1. Case (Top), Rear Panel Section | 56 |
| CD Section | 22 | 8-2. Front Panel Section | 57 |
| | | 8-3. Chassis Section | 58 |
| | | 8-4. CD Mechanism Deck Section-1 (CDM74-F1BD81) | 59 |
| | | 8-5. CD Mechanism Deck Section-2 (CDM74-F1BD81) | 60 |
| | | 9. ELECTRICAL PARTS LIST | 61 |

**SECTION 1
SERVICING NOTES**

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

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

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

NOTES ON LASER DIODE EMISSION CHECK

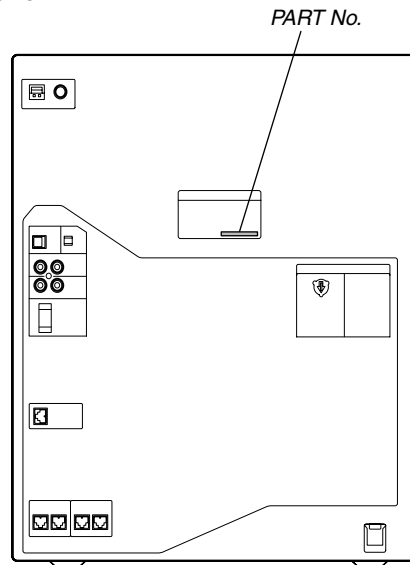
www.DataSheet4U.com

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 DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the "S curve check" in "CD section adjustment" and check that the S curve waveform is output several times.

**• MODEL IDENTIFICATION
– Back Panel –**



| MODEL | PART No. |
|----------------------|--------------|
| GNX60: E2, E3 models | 2-547-454-0□ |
| GNX70: E2, E3 models | 2-547-456-0□ |
| GX9900 model | 2-547-458-0□ |
| GNX60: AR model | 2-588-965-0□ |
| GNX60: E51 model | 2-588-966-0□ |
| GNX70: AUS model | 2-588-967-0□ |
| GNX70: E51 model | 2-588-968-0□ |
| GNX60: AUS model | 2-588-974-0□ |

- Abbreviation
 - AR : Argentine model
 - E2 : 120 V AC Area in E model
 - E3 : 240 V AC Area in E model
 - E51 : Chilean and Peruvian model
 - AUS : Australian model

SECTION 2
GENERAL

This section is extracted from instruction manual.

LOCATING THE CONTROLS

List of button locations and reference pages

Main unit

ALPHABETICAL ORDER

A - D

- ALBUM +/- 19
- AMP MENU 33
- AUTO/MANUAL³⁾ 2
- CD 39
- CD SYNC 13
- Deck A 31
- Deck B 22
- DIRECTION 18
- DISC 1 ~ 3 7
- Disc tray 9
- DISPLAY 43
- Display 44

E - L

- ECHO LEVEL 24
- ENTER 21
- EQ BAND 11
- EX-CHANGE/DISC SKIP 6
- GROOVE 36
- ILLUMINATION 42
- IR Receptor 40

M - R

- MASTER VOLUME 8
- MIC 1 (jack) 27
- MIC 2 (jack) 26
- MIC LEVEL 25
- MP3 BOOSTER 10
- MPX⁴⁾ 18
- OPERATION DIAL 29
- PHONES (jack) 28
- Power illuminator 23
- REC PAUSE/START 16

S - Z

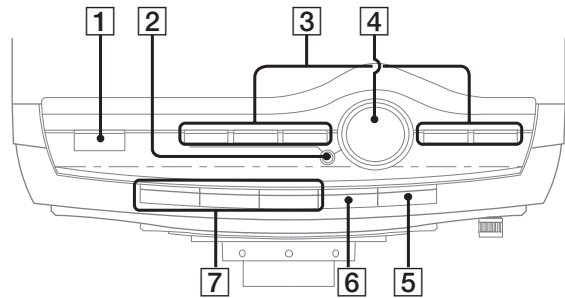
- SOUND FLASH 30
- SPEAKERS³⁾ 1
- SURROUND¹⁾ 45
- SURR SPEAKER MODE²⁾ 45
- TAPE A/B 37
- Tape lid 22 31
- TUNER/BAND 38
- TUNING +/- 17
- TV 35
- VIDEO/MD 34
- X-ROUND buttons³⁾ 3
- WA VE/FADER/BALANCE/
RANDOM/TWISTER
- X-ROUND JOG³⁾ 4
- X-ROUND OFF³⁾ 1

SYMBOLS

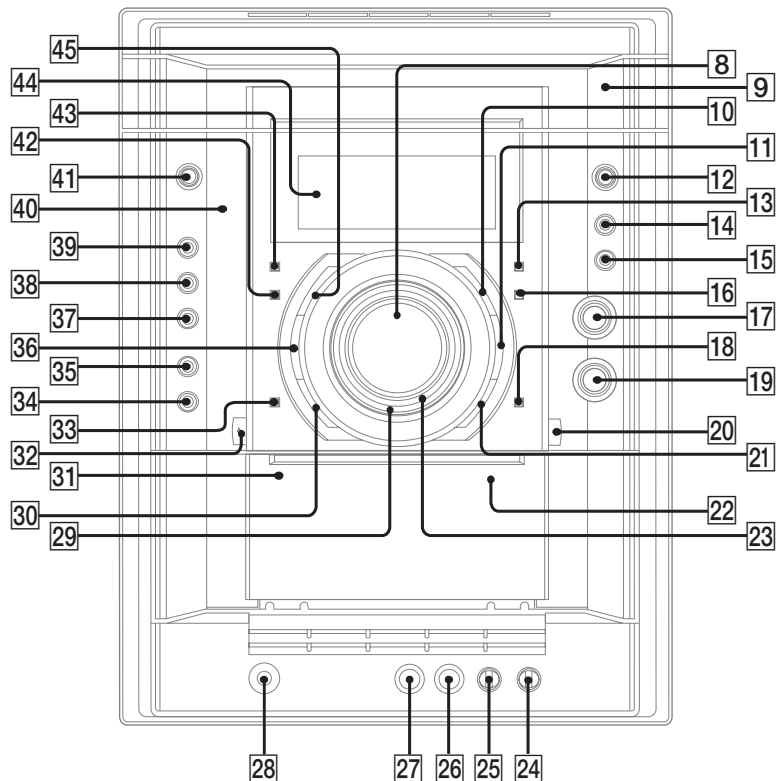
- I/⏻ (power) 41
- ▲ OPEN/CLOSE 5
- ▶▶▶▶ (play) 12
- ◀◀▶▶▶▶ (go backward/forward) 17
- ◀◀▶▶▶▶ (rewind/fast forward) 19
- ⏸ (pause) 14
- (stop) 15
- ▲ A (Eject A) 32
- B ▲ (Eject B) 20

- ¹⁾For MHC-GNX100/GNX66/
GNX60
- ²⁾For MHC-GNX88/GNX80/
GNX77/GNX70/GX9900
- ³⁾MHC-GNX100 only
- ⁴⁾For MHC-GNX88/GNX77/
GNX66

Top Panel



Front Panel



This section is extracted from instruction manual.

Remote control

ALPHABETICAL ORDER

A - E

- ALBUM + **14**
- ALBUM - **16**
- CD **24**
- CLEAR **18**
- CLOCK/TIMER SELECT **2**
- CLOCK/TIMER SET **4**
- DISC SKIP **13**
- DISPLAY **26**
- ENTER **12**
- EQ **17**

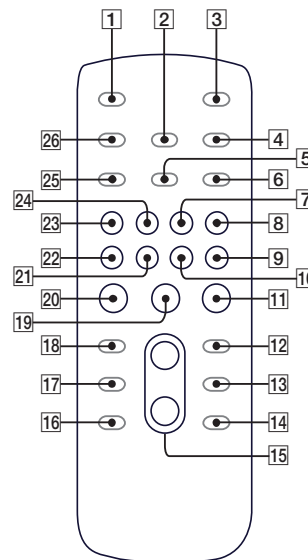
F - Z

- FM MODE **6**
- FUNCTION **8**
- PLAY MODE **5**
- REPEAT **6**
- SLEEP **1**

- TAPE **23**
 - TUNER/BAND **7**
 - TUNER MEMORY **25**
 - TUNING MODE **5**
 - VOLUME +/- **15**
- The + button has a tactile dot.*

SYMBOLS

- I/⏻ (power) **3**
- (stop) **11**
- ⏸ (pause) **19**
- ▶ (play) **20**
- ◀◀ (go backward) **22**
- ▶▶+ (go forward) **21**
- ◀◀ (rewind) **10**
- ▶▶ (fast forward) **9**

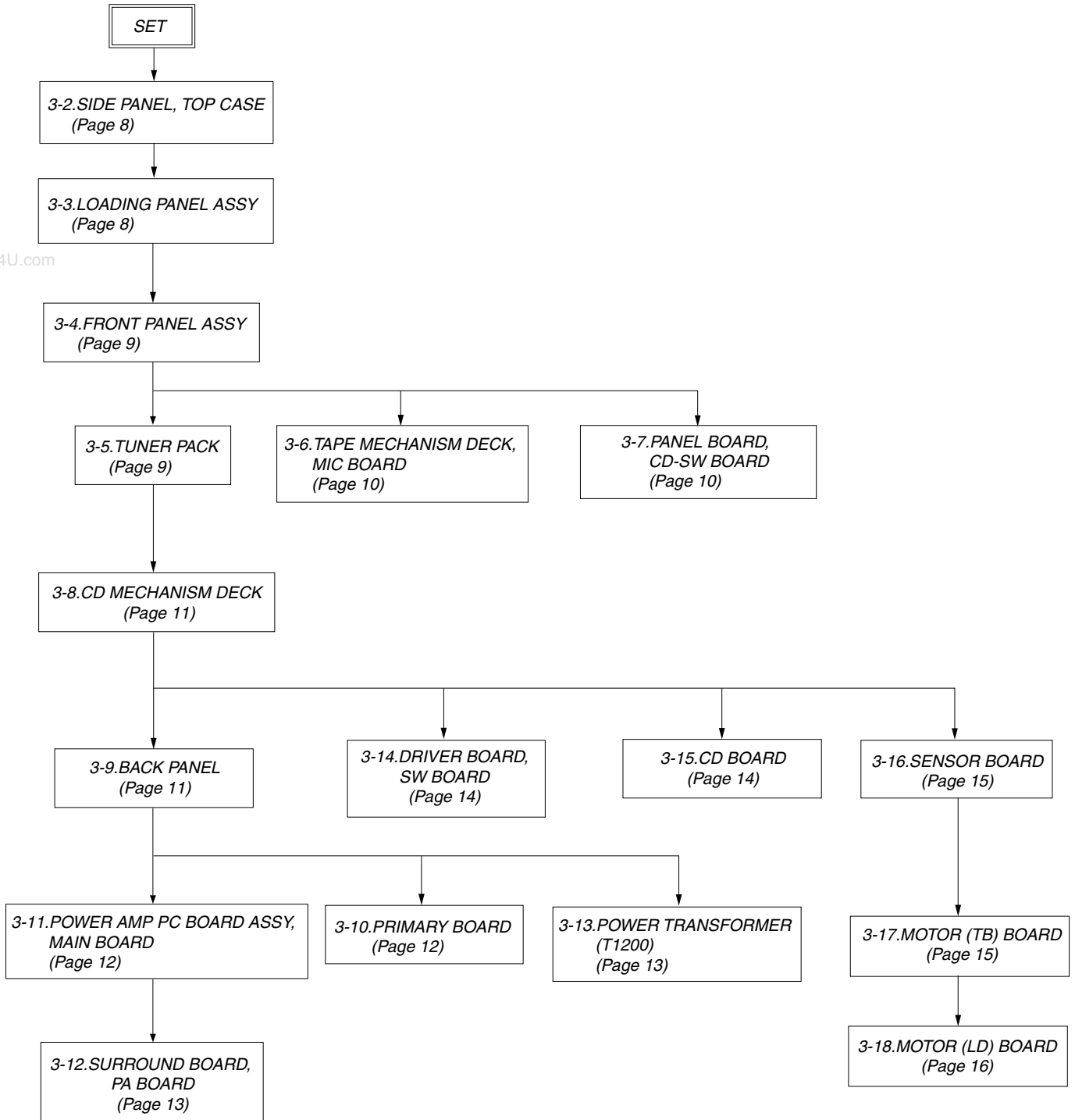


* Use the tactile dot as a reference when operating the system.

SECTION 3 DISASSEMBLY

- This set can be disassembled in the order shown below.

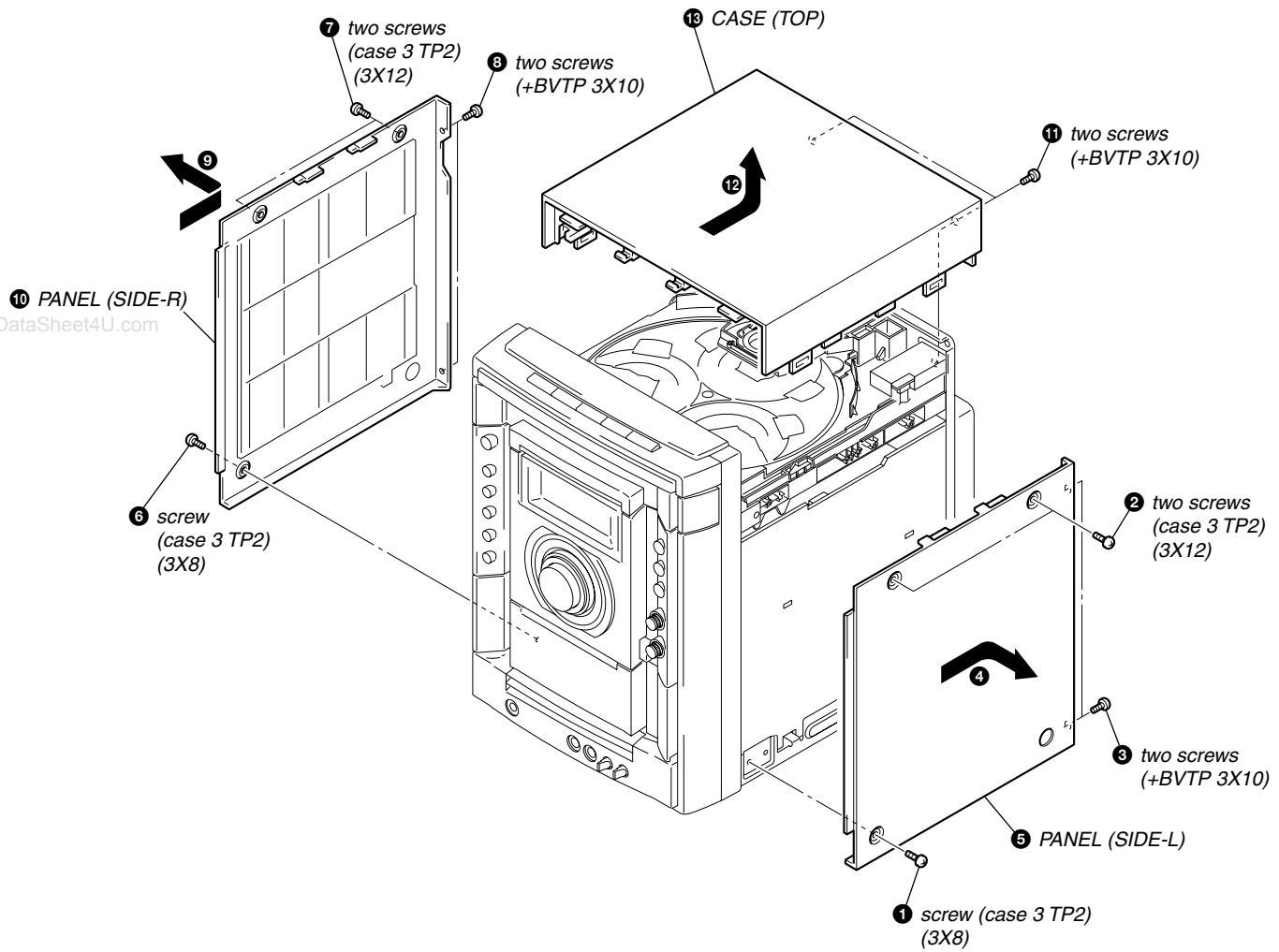
3-1. DISASSEMBLY FLOW



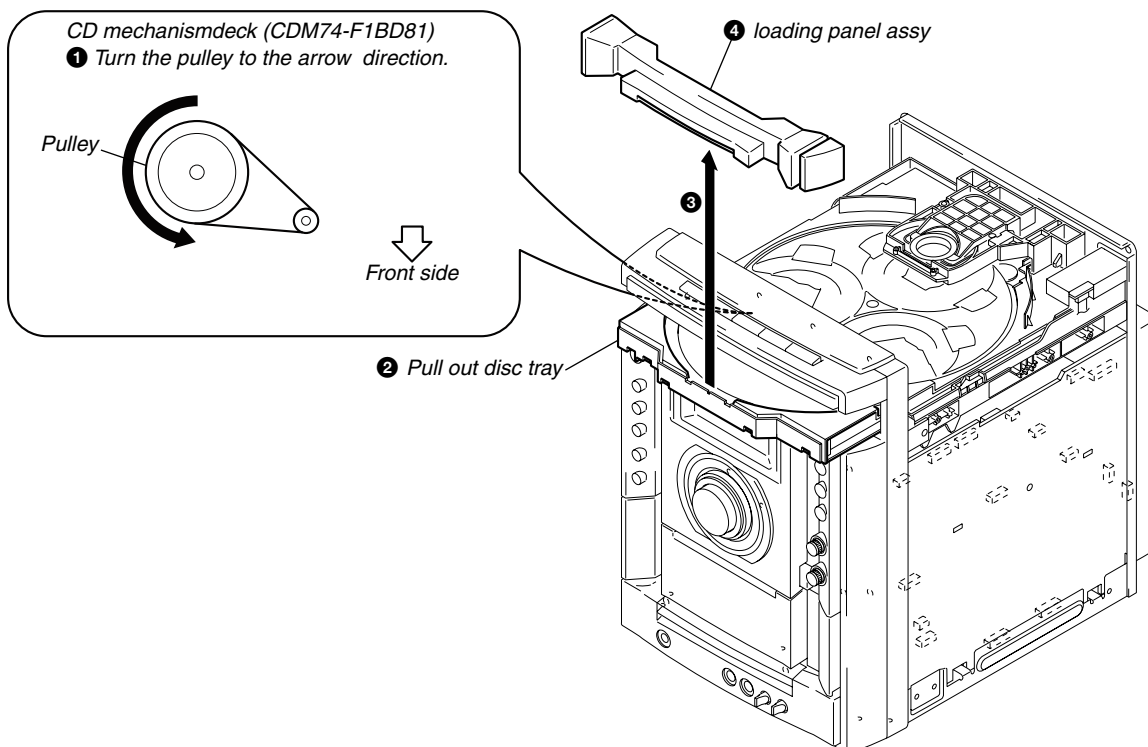
HCD-GNX60/GNX70/GX9900

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

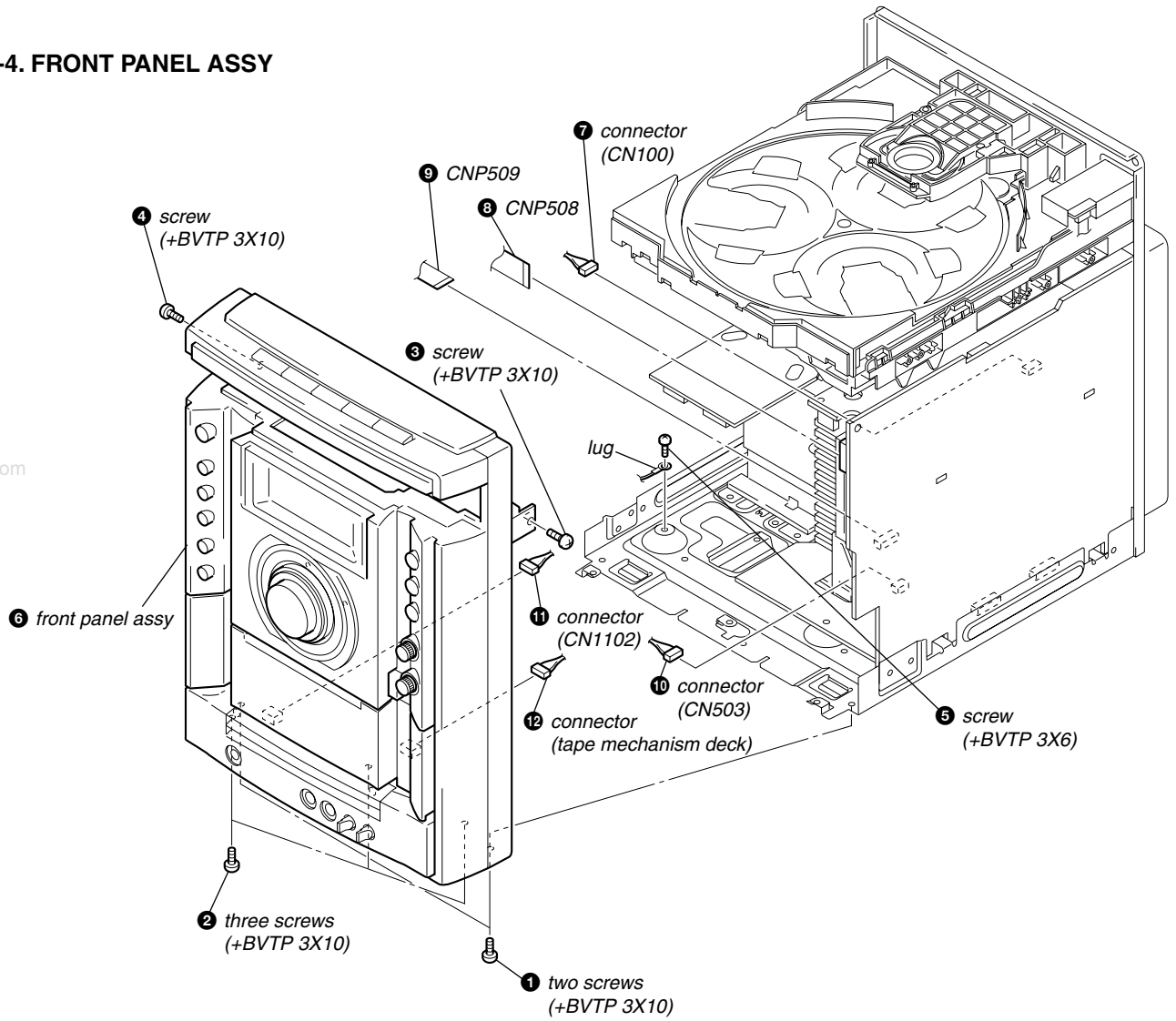
3-2. SIDE PANEL, TOP CASE



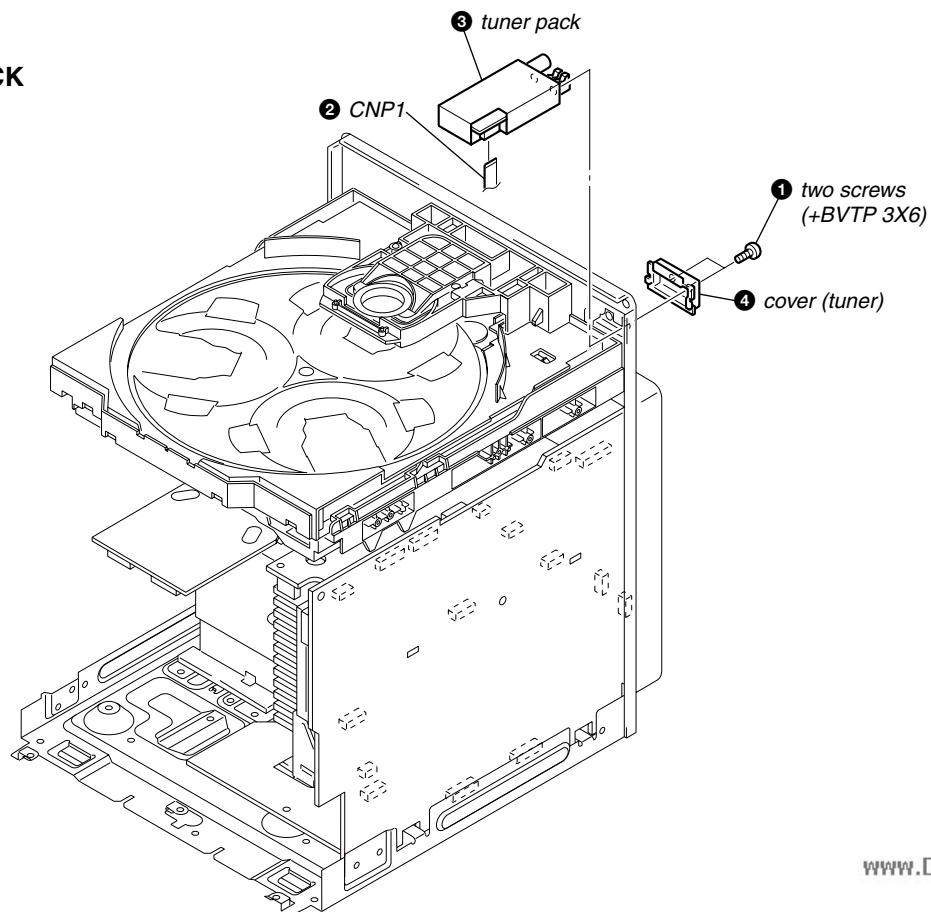
3-3. LOADING PANEL ASSY



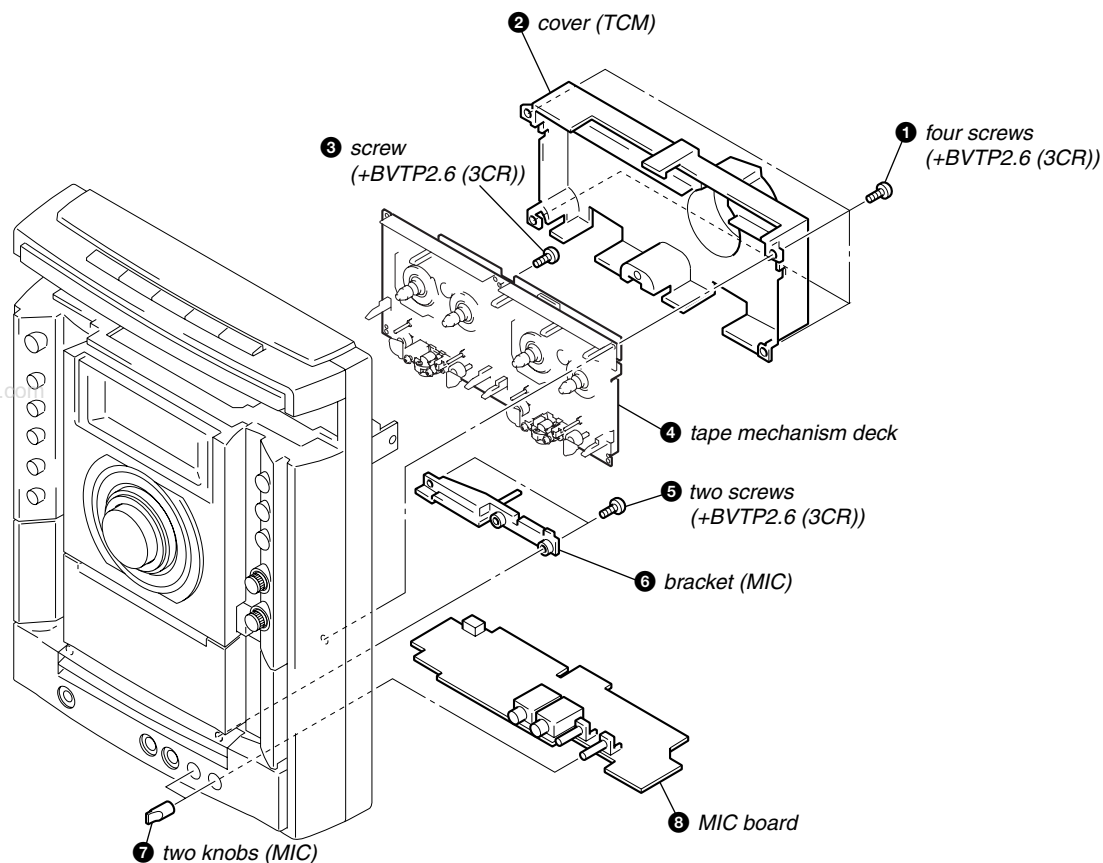
3-4. FRONT PANEL ASSY



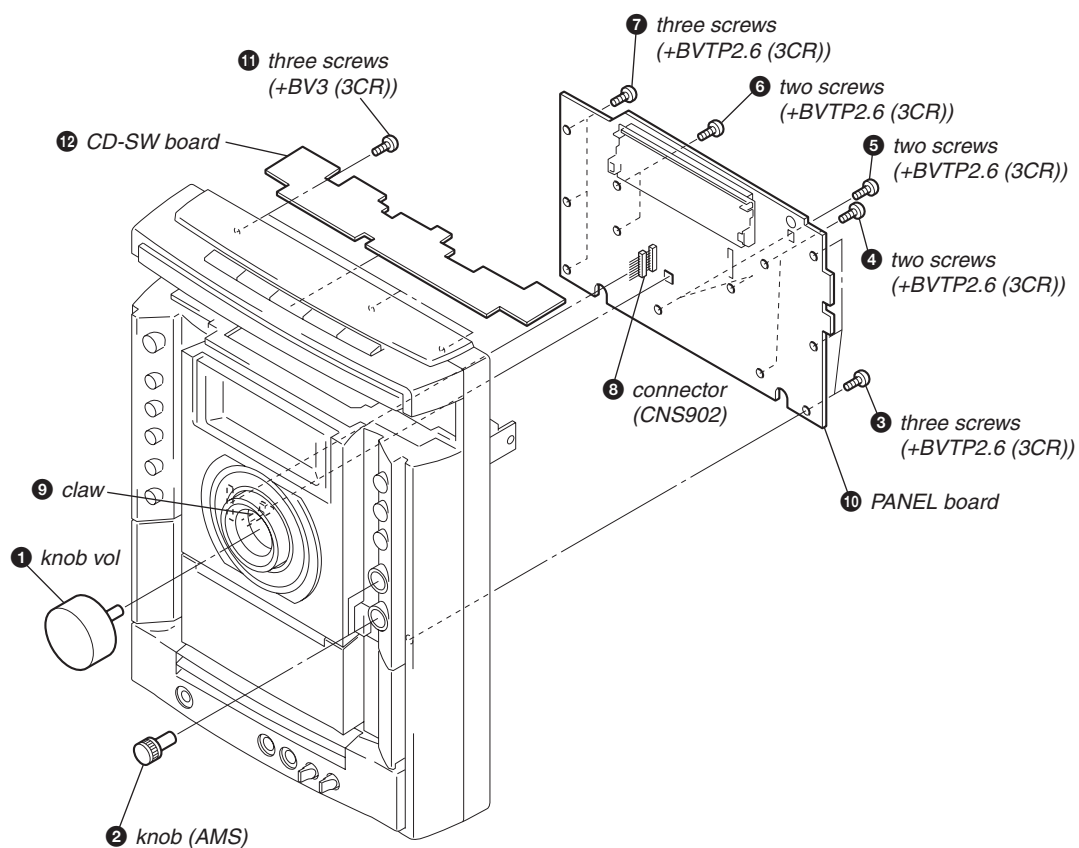
3-5. TUNER PACK



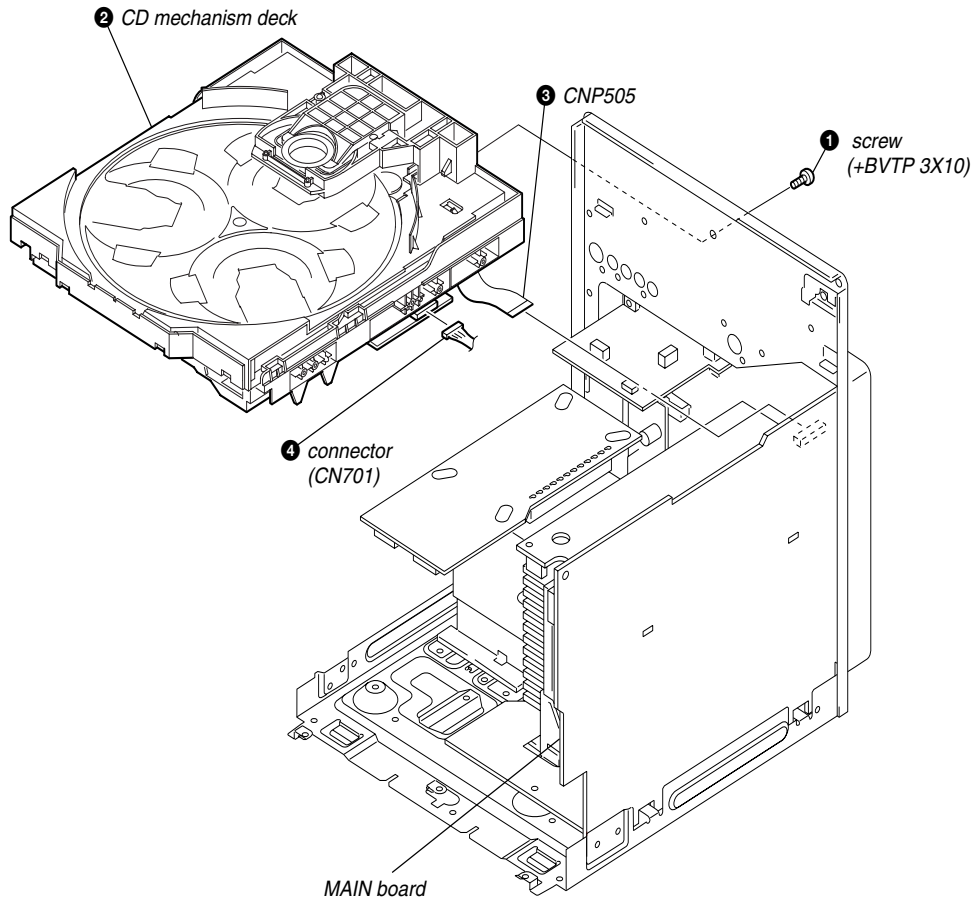
3-6. TAPE MECHANISM DECK, MIC BOARD



3-7. PANEL BOARD, CD-SW BOARD

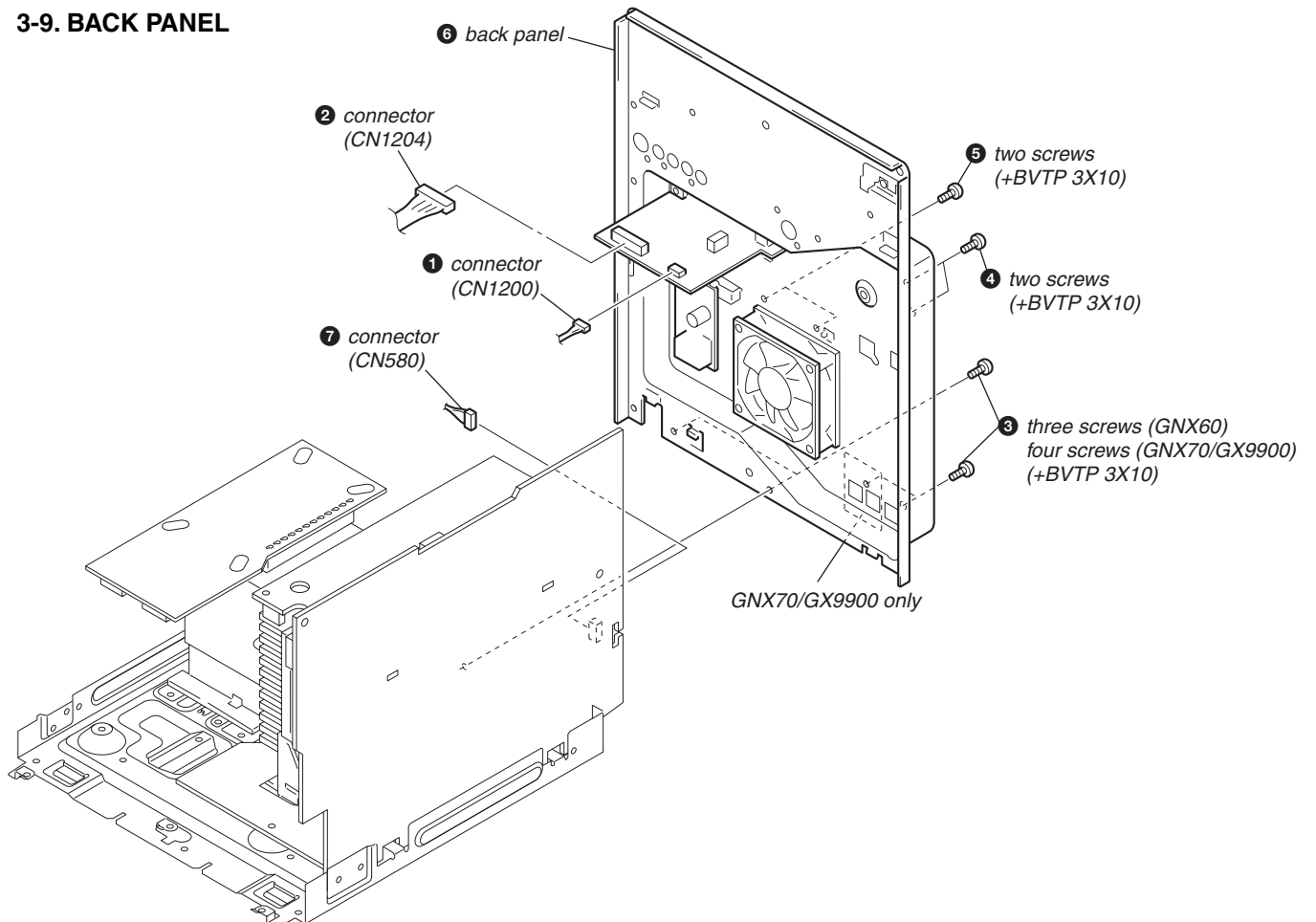


3-8. CD MECHANISM DECK

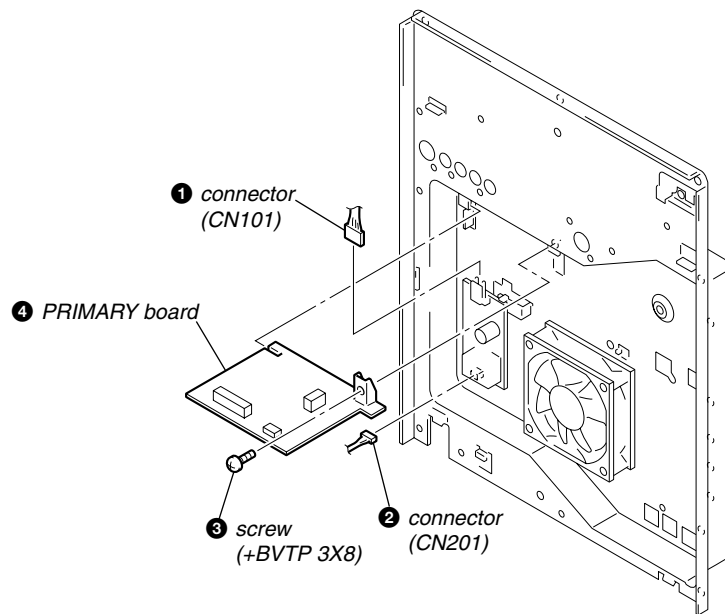


www.DataSheet4U.com

3-9. BACK PANEL

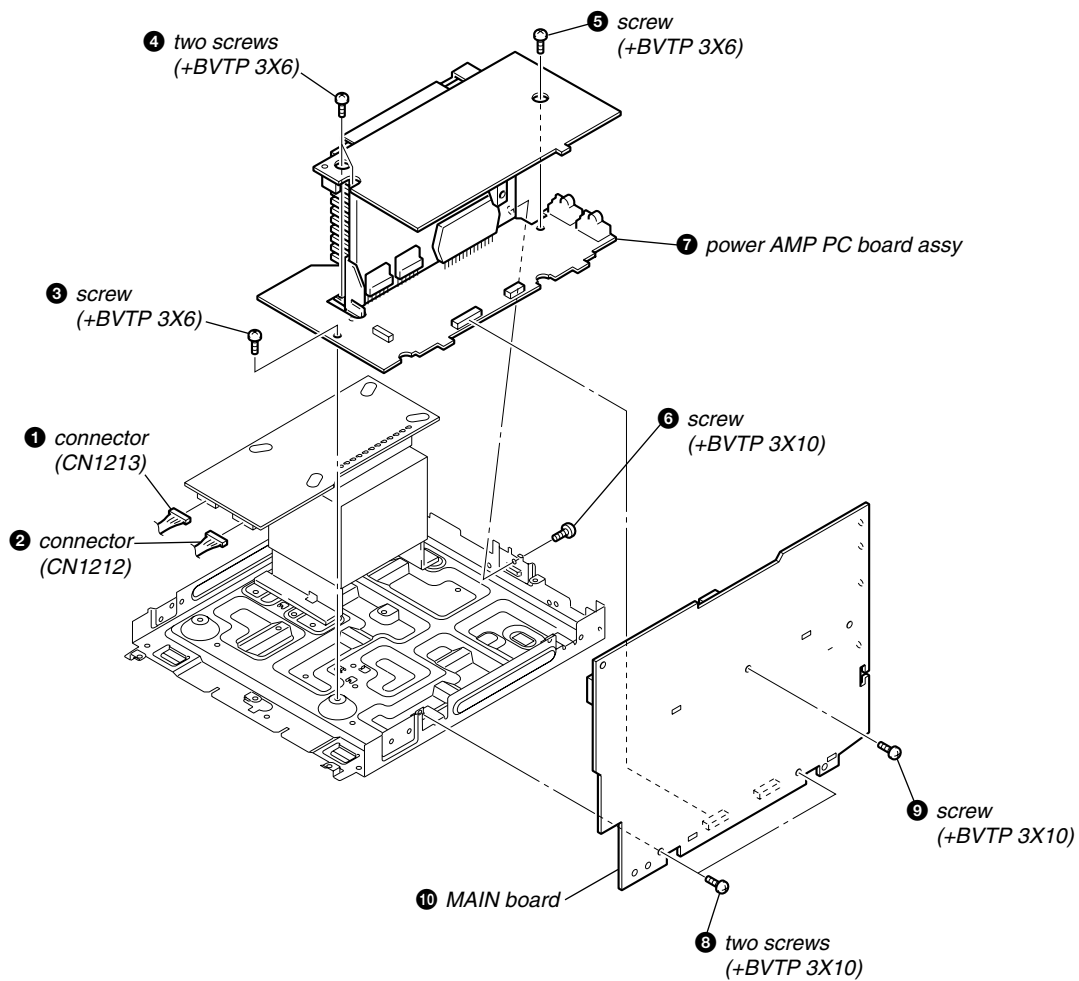


3-10. PRIMARY BOARD



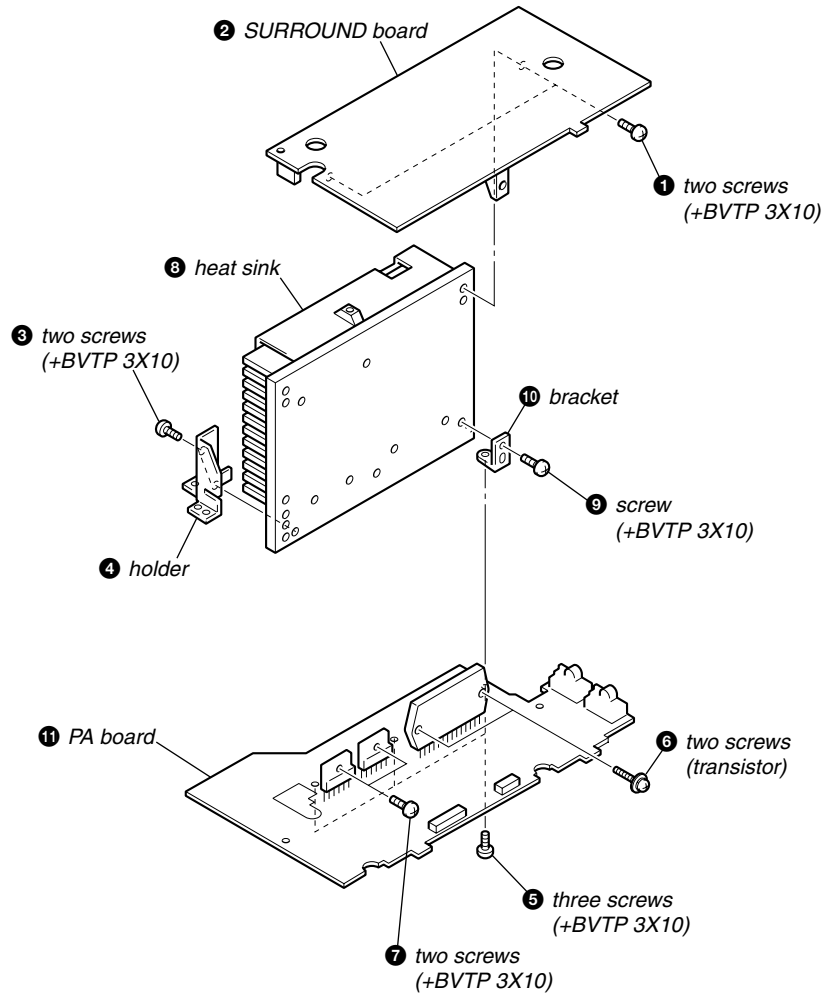
www.DataSheet4U.com

3-11. POWER AMP PC BOARD ASSY, MAIN BOARD

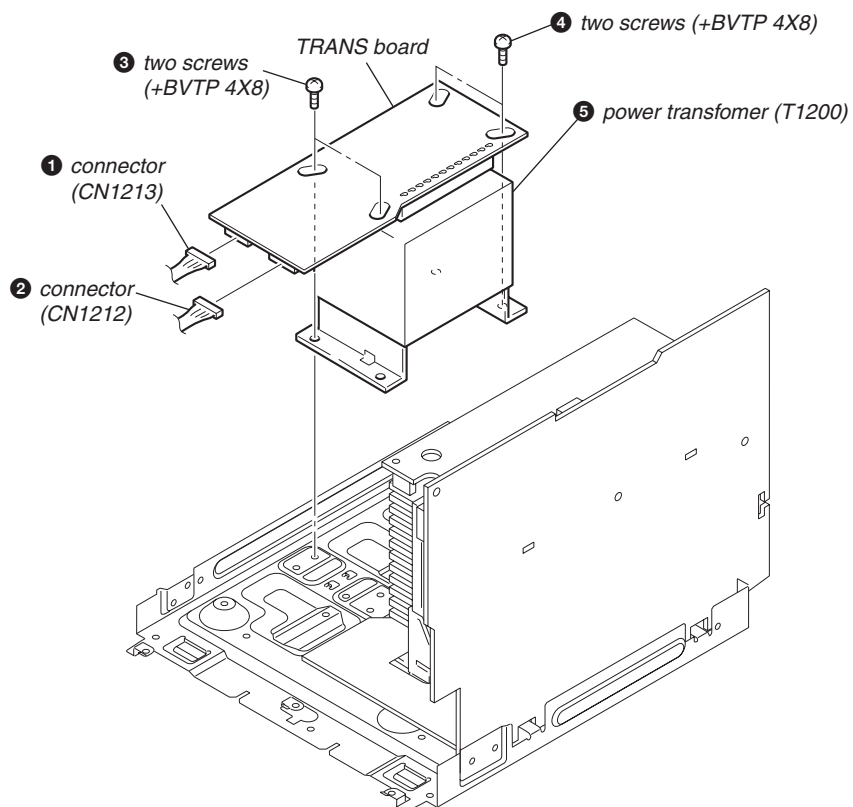


www.DataSheet4U.com

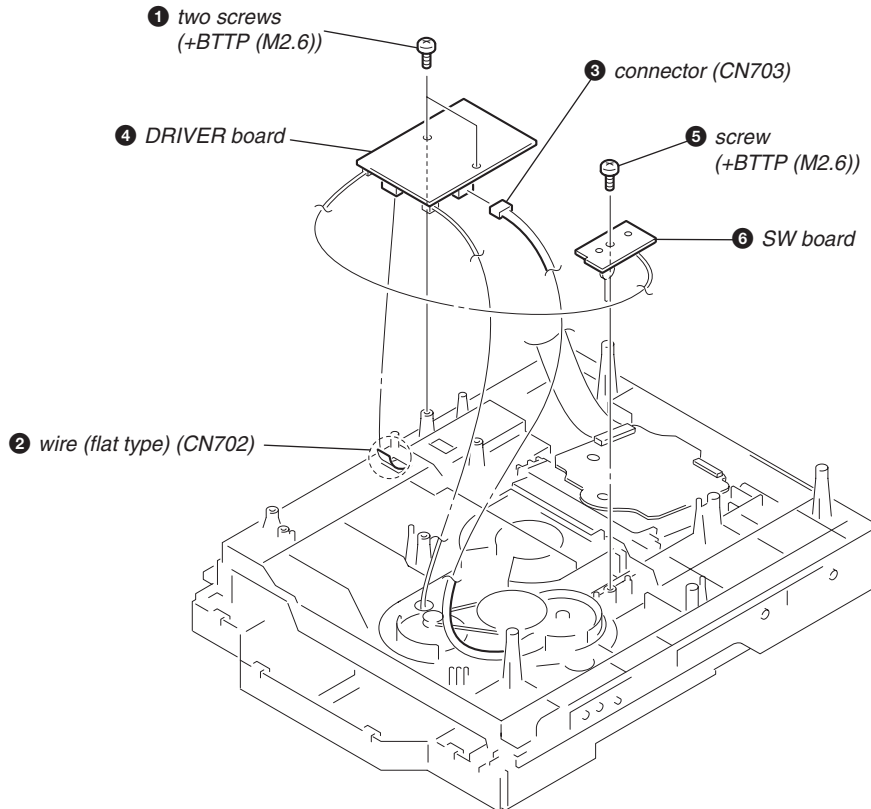
3-12. SURROUND BOARD, PA BOARD



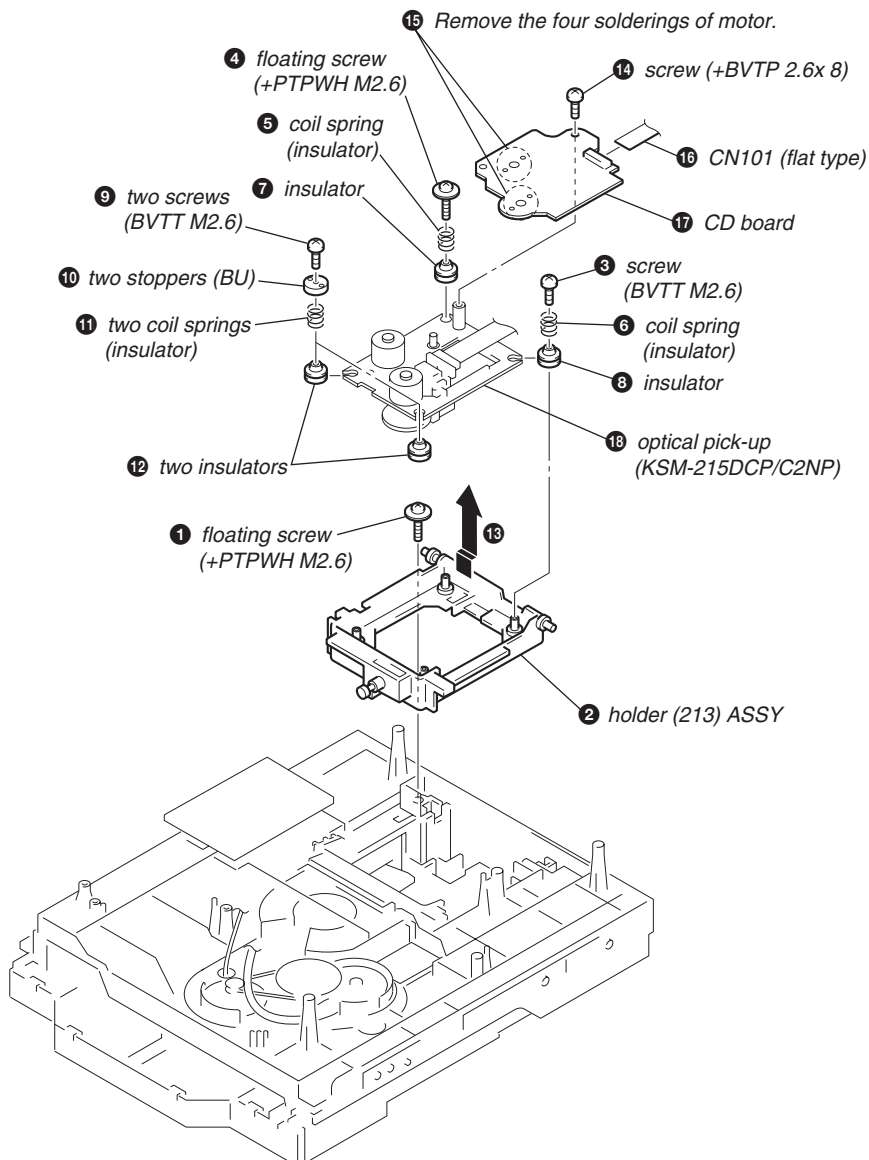
3-13. POWER TRANSFORMER (T1200)



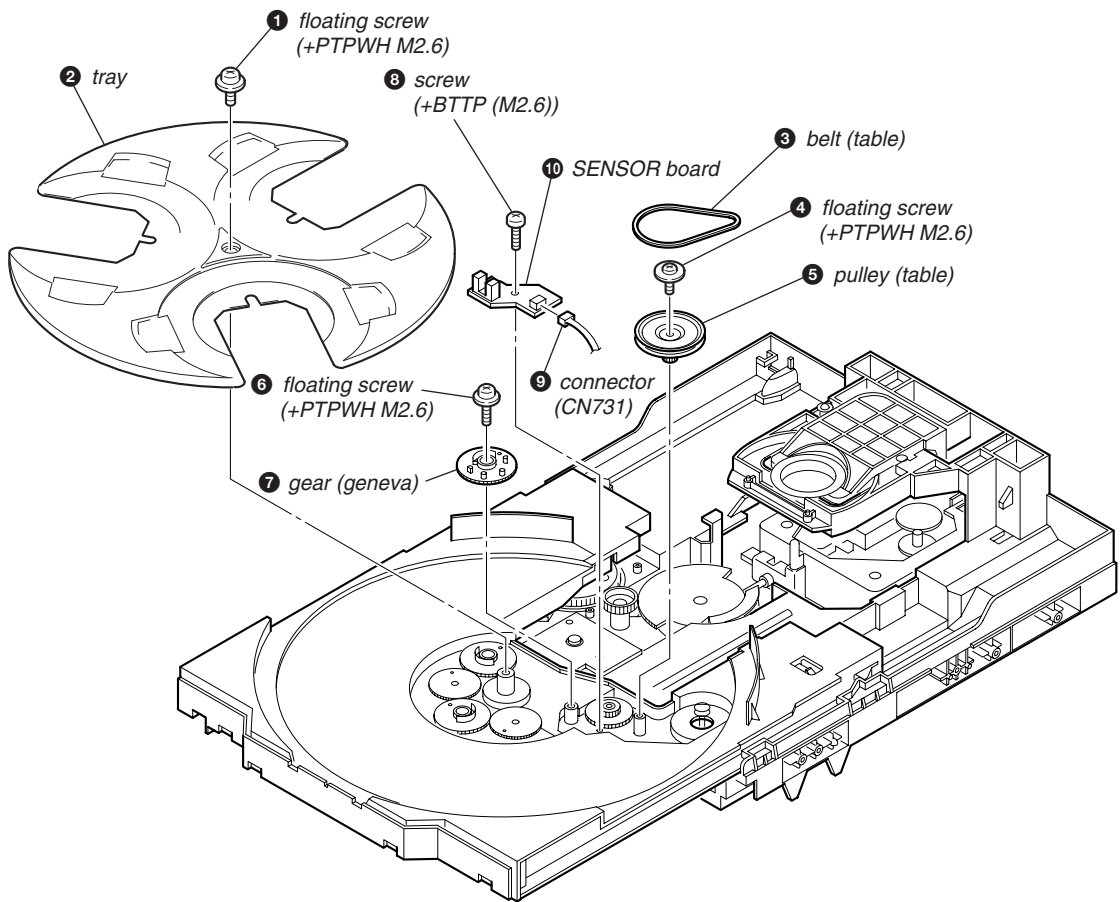
3-14. DRIVER BOARD, SW BOARD



3-15. CD BOARD

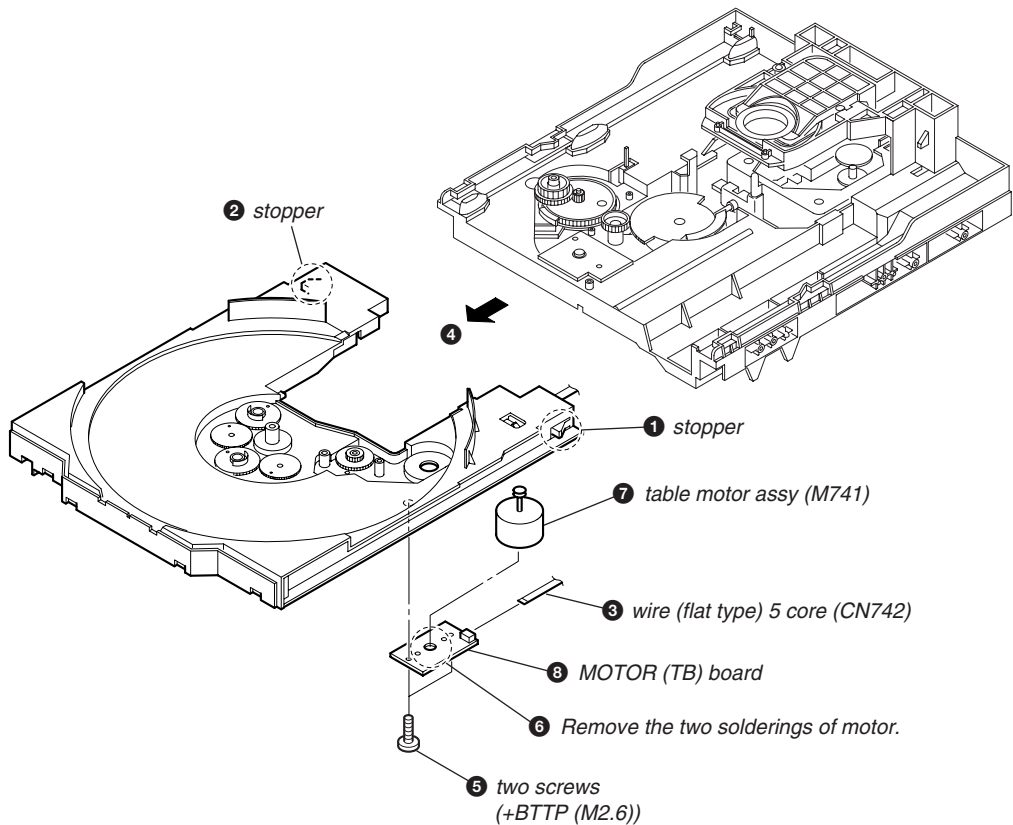


3-16. SENSOR BOARD

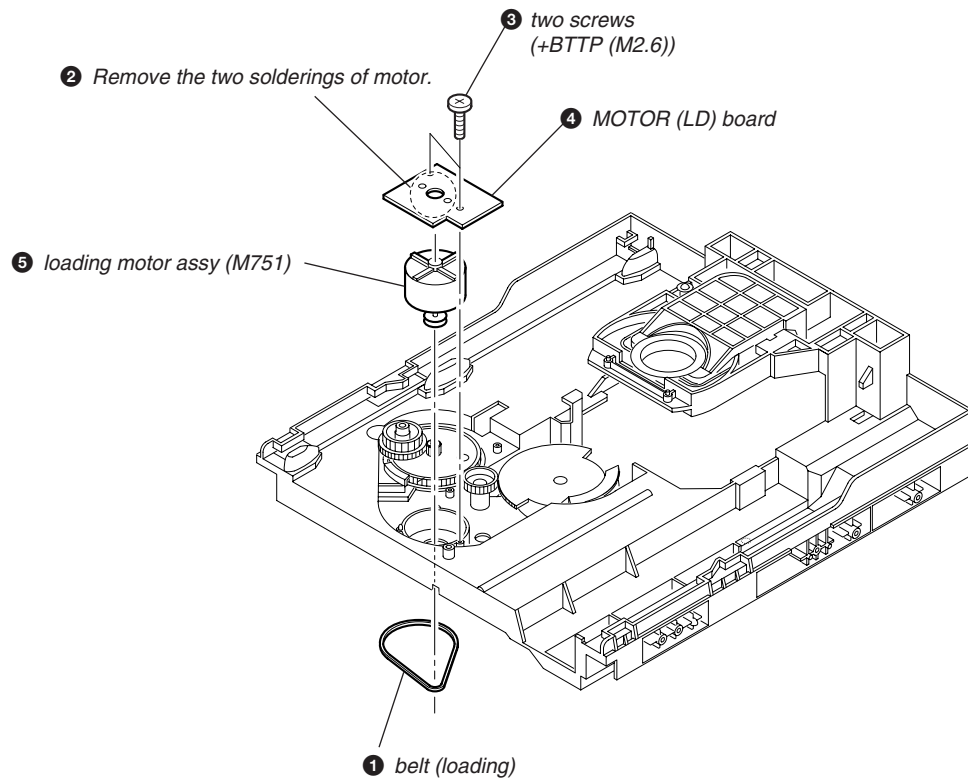


www.DataSheet4U.com

3-17. MOTOR (TB) BOARD



3-18. MOTOR (LD) BOARD



www.DataSheet4U.com

SECTION 4 TEST MODE

[GC TEST MODE]

- This mode is used to check the fluorescent indicator tube, LEDs, keys, MASTER VOLUME jog, OPERATION DIAL jog, AMS jog, destination, software version and VACS level.

Procedure:

- Press button, button and button simultaneously.
- All LEDs and segments in fluorescent indicator tube are lighted up. All LEDs are lighted up in red color. If the system is turned on, the LED is lighted up in green color.
- When you want to enter the software version display mode, press button. The model and destination are displayed. Each time button is pressed, the display changes from MC version, GC version, SYS version, CD version, CDDM version, CDMA version, CDMB version, BDA version, BDB version, ST version, TC version, TA version and TM version in this order, and returns to the MC version display.
- When button is pressed while the version numbers are being displayed except model and destination, the date of the software creation appear. When button is pressed again, the display returns to the software version display. When button is pressed while the date of the software creation is being displayed, the date of the software creation is displayed in the same order of software version display.
- Press button, the key check mode is activated.
- In the key check mode, the fluorescent indicator tube displays "K 0 JOV0E0 X0". Each time a button is pressed, "K" value increases. However, once a button has been pressed, it is no longer taken into account.
 - "J" value increases in the manner of 0,1, 2, 3 ... if knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if knob is turned counter-clockwise.
 - "V" value increases in the manner of 0,1, 2, 3 ... if knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if knob is turned counter-clockwise.
 - "E" value increases in the manner of 0,1, 2, 3 ... if knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if knob is turned counter-clockwise.
- When button is pressed after all LEDs and segments in fluorescent indicator tube light up, the fluorescent indicator tube displays "VACS A+B APCC". A is VACS level which is triggered by signal level, B is VACS level which is triggered by temperature and CC is VACS level which is triggered by APVACS (Abuse Protection VACS). The signal level, which will trigger VACS A is shown in the center area of fluorescent indicator tube.
- When button is pressed after all LEDs and segments in fluorescent indicator tube light up, alternate segments in fluorescent indicator tube would light up. If you press button again, another half of alternate segments in fluorescent indicator tube would light up. Pressing button again would cause all segments lights up.
- To release this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[MC TEST MODE]

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

Procedure:

* To enter MC Test Mode

- Press button, button and button simultaneously.
- The CD ring indicators, TAPE A and TAPE B indicators flash on the fluorescent indicator tube. The function is changed to VIDEO.

* Check of Amplifier

- Press button repeatedly until a message "GEQ MAX" appears on the fluorescent indicator tube. GEQ increases to its maximum.
- Press button repeatedly until a message "GEQ MIN" appears on the fluorescent indicator tube. GEQ decreases to its minimum.
- Press button repeatedly until a message "GEQ FLAT" appears on the fluorescent indicator tube. GEQ set to flat.
- When the knob is turned clockwise even slightly, the sound volume increases to its maximum and a message "VOLUME MAX" appears on the fluorescent indicator tube.
- When the knob is turned counter-clockwise even slightly, the sound volume decreases to its minimum and a message "VOLUME MIN" appears on the fluorescent indicator tube.

* Tape function

- When a tape is inserted in Deck B and recording is started, the function is changed to VIDEO automatically. When button is pressed during recording in function, ALC (Automatic Level Control) is turned on.
- During recording, turn knob to counter clockwise rotation will change the function to TAPE B and rewind the tape in deck B until the recording start position and playback of the tape in deck B is started. If the button is pressed for a pause and pressed again to resume recording during recording time, when the tape in deck B is rewind, the tape in deck B will be rewind until the position where the pause is applied.

* To release MC Test mode.

- To release this mode, press button.
- The cold reset is enforced at the same time.

[COLD RESET]

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



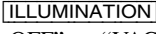
Procedure:

- Press button, button, and button simultaneously.
- The fluorescent indicator tube becomes blank for a while, and the set is reset.

[VACS ON/OFF]

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


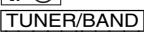



Procedure:

- Press  button to turn the set ON.
- Press  button and  button simultaneously. The message "VACS OFF" or "VACS ON" appears on the fluorescent indicator tube.

[TUNER STEP CHANGE]

- The step interval of AM channels can be toggled between 9 kHz and 10 kHz.







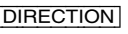

Procedure:

- Press  button to turn the set ON.
- Press  button repeatedly to select the "AM".
- Press  button to turn the set OFF.
- Press  button and  button simultaneously. The system will turn ON automatically. The message "AM 9k STEP" or "AM 10k STEP" appears on the fluorescent indicator tube and thus the channel step is changed.

[CD SERVICE MODE]

- This mode let you move the CD sled motor freely. Use this mode when you want to clean the optical pick-up.

Procedure:


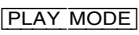



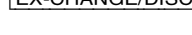

- Press  button to turn the set ON.
- Select CD function.
- Press ,  button, and  button simultaneously.
- The CD service mode is activated. The message "SERVICE MODE" appears.
- With the CD in stop status, turn  knob to clockwise rotation to move the optical pick-up to outside track, or turn  knob to counterclockwise rotation to move to inside track. The message "SLED OUT" or "SLED IN" appears on the fluorescent indicator tube.
- To turn on or off the laser, press  button. The message "LASER ON" or "LASER OFF" appears on the fluorescent indicator tube.
- To release this mode, press  button.

[AGING MODE]

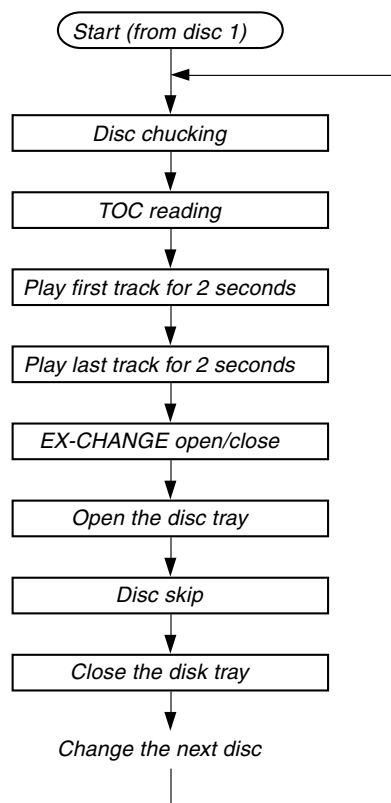
This mode can be used for operation check of CD section.

- If an error occurs, the aging operation would stop and the status is displayed.
- If there are no error occurs, the aging operation would continue repeatedly.

Procedure:

- Press  button to turn the set ON.
- Select CD function.
- Load three discs on the disc tray.
- Press  button repeatedly to select the "ALL DISCS" mode, and press the  button repeatedly to select "REPEAT OFF" mode.
- Press ,  button, and  button simultaneously.
- Aging operation is started.
- To release this mode, press  button or disconnect the power cord to turn the power OFF.

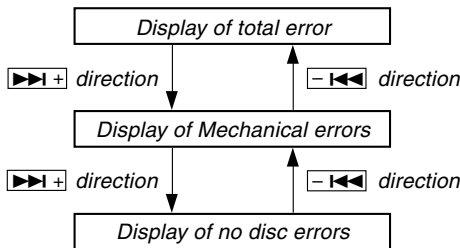
Aging mode sequence:



• **Display when an error occurred (CD Error Code Mode)**

Procedure:

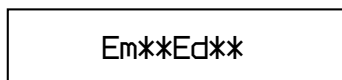
1. Press button, button and button simultaneously to enter the error code display mode.
2. The fluorescent indicator tube displays the number of total error.
3. Each time knob is rotated, display change as below.



4. To clear the error record, operate the cold reset. (Refer to the "COLD RESET")
5. To release this mode, press the button or disconnect the power cord to turn the power OFF.

1) Display of total error

Display

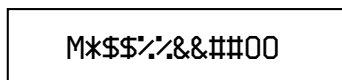


EM**: The number of mechanical errors.

ED**: The number of no disc errors after chucking the disc.

2) Display of mechanical errors

Display



M*: The number of mechanical error ("00" is latest one)

(Rotate knob in the direction of either to display next error)

\$\$: Not used

%?: Loading related error (Second figure is not used)

D: Stop by the problem other than mechanical problem while closing.

E: Stop by the problem other than mechanical problem while opening.

C: Stop by the problem other than mechanical problem while chucking up.

F: Stop by the problem other than mechanical problem while chucking down.

&&: Emerging error

01: Stop while chucking up.

02: Stop while chucking up.

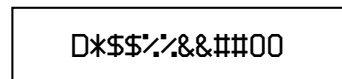
03: Time-out of EX-CHANGE open.

05: Time-out of EX-CHANGE close.

##: Not used

3) Display of no disc errors

Display



D*: The number of mechanical error ("00" is latest one)

(Rotate knob in the direction of either to display next error)

\$\$: Error type

01: Focus error

02: GFS error

03: Setup error

%?: Not used

&&:

00: No disc judgment without chucking retry.

01: No disc judgment after chucking retry.

##: The state when judged as no disc

01: Stop

02: Setup

03: TOC reading

04: Access

05: Playback

06: Pause

07: Manual search (Play)

08: Manual search (Pause)

[CD REPEAT 5 LIMIT OFF MODE]

- The number of repeat for CD playback is 5 times when the repeat mode is "REPEAT ALL". This mode enables CD to repeat playback for limitless times.

Procedure:

1. Press button to turn the set ON.
2. Select CD function.
3. Press button, button and button simultaneously to enter the CD repeat 5 limit off mode and the message "LIMIT OFF" appears on the fluorescent indicator tube .
4. To release this mode, operate the cold reset. (Refer to the "COLD RESET")

[CD SHIP MODE (WITH MEMORY CLEAR)]

- This mode moves the optical pick-up to the position durable to vibration and clears all data including preset data stored in the RAM to initial conditions. Use this mode when returning the set to the customer after repair.




Procedure:

1. Press button to turn the set ON.
2. Select CD function.
3. Press button, button and button simultaneously. The set will power off automatically.
4. After the "STANDBY" blinking display finish, a message "LOCK" appears on the fluorescent indicator tube and the CD ship mode is set.

[CD SHIP MODE (WITHOUT MEMORY CLEAR)]

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





Procedure:

1. Press  button to turn the set ON.
2. Select CD function.
3. Press  button and  button simultaneously. The set will power off automatically.
4. After the "STANDBY" blinking display finish, the message "LOCK" appears on the fluorescent indicator tube and the CD ship mode is set.


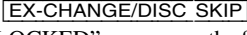
[CD POWER MANAGE]

- This mode let you switch on or off, the power supply to the BU during TUNER function.
- When CD POWER is set to OFF, the power supply to the BU is cut off during TUNER function. It will increase the time taken to access CD when function change from TUNER to CD but it will improve tuner reception.
- When CD POWER is set to ON, the power supply to the BU is not cut off during TUNER function. It will reduce the time taken to access CD when function change from TUNER to CD but it will decrease tuner reception performance.




Procedure:

1. Press  button to turn the set ON.
2. Select CD function.
3. Press  button to turn the set OFF.
4. Press  button and  button simultaneously. The set will power on automatically.
5. The message "CD POWER ON" or "CD POWER OFF" appears on the fluorescent indicator tube.

[CD TRAY LOCK MODE]

- This mode let you lock the disc trays. When this mode is activated, the disc tray will not open when  button or  button is pressed. The message "LOCKED" appears on the fluorescent indicator tube.




Procedure:

1. Press  button to turn the set ON.
2. Select CD function.
3. Press  button and  button simultaneously and hold down until "LOCKED" or "UNLOCKED" appears on the fluorescent indicator tube (around 5 seconds).

[VIDEO/MD SWITCHING]

- This mode let you switch from VIDEO to MD and vice-versa.




Procedure:

1. Press  button to turn the set ON.
2. Select VIDEO function.
3. Press  button and  button simultaneously. The function will change to MD. Press the same buttons again to change from MD to VIDEO.

[REMOTE COMMANDER DISABLE MODE]

- This mode let you disable the remote commander reception. When this mode is activated, the set will not response if the button on the remote commander is pressed. The message "RemoteDisable" will be displayed on the fluorescent indicator tube. Use this mode during aging to avoid disturbance.

Procedure:

1. Press  button,  button and  button simultaneously. The message "RemoteDisable" appears on the fluorescent indicator tube. To enable the remote commander reception, press the same buttons again. The message "RemoteEnable" appears on the fluorescent indicator tube.

SECTION 5 MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:
 record/playback heads pinch rollers
 erase head rubber belts
 capstan idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

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

SECTION 6 ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB=0.775 V

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

- Test Tape

| Tape | Signal | Used for |
|----------|----------------|--------------------|
| P-4-A100 | 10 kHz, -10 dB | Azimuth Adjustment |

RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

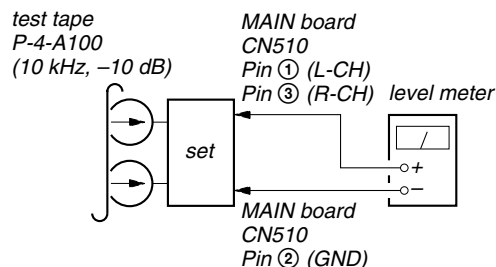
DECK A

DECK B

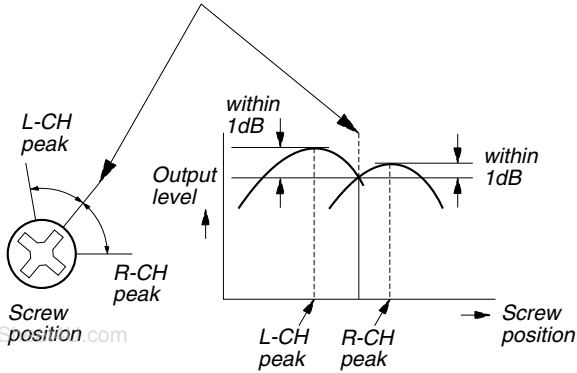
Note: Perform this adjustments for both decks

Procedure:

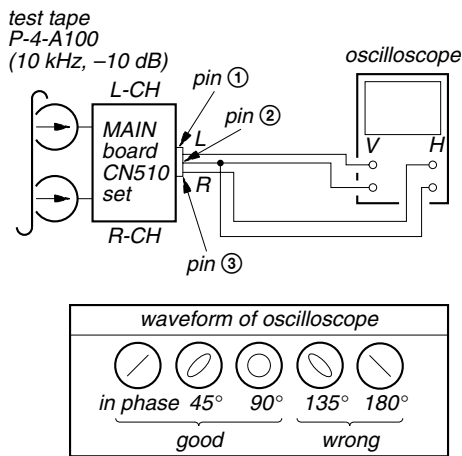
1. Mode: Playback



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

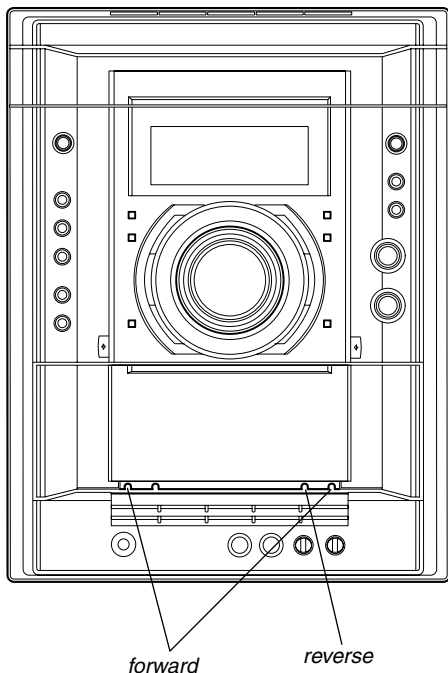


- Mode: Playback



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

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



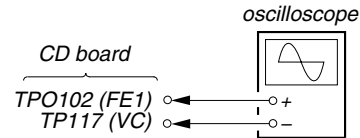
CD SECTION

Note:

- CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
- Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
- Use an oscilloscope with more than 10MΩ impedance.
- 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

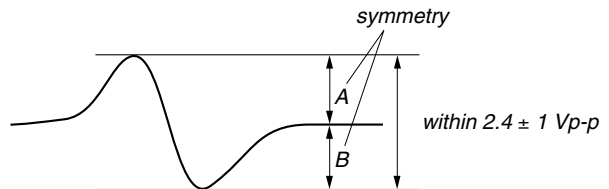
Connection:



Procedure:

- Connect an oscilloscope to test point TPO102 (FE1) and TP 117(VC) on the CD board.
- Turn the power on.
- Put the disc (YEDS-18) in and turned power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out)
- Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2.4 ± 1 Vp-p.

S-curve waveform



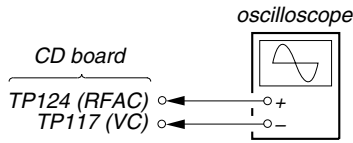
Note:

- 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.

Checking Location: CD board (SIDE B)
(See page 24.)

RFAC Level Check

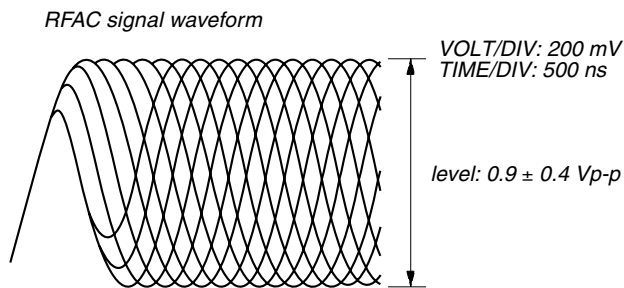
Connection:



Procedure:

1. Connect an oscilloscope to test point TP124 (RFAC) and TP117(VC) on the CD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFAC signal level is correct or not.

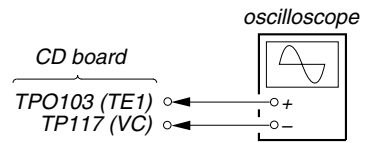
Note: A clear RFAC signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.



Checking Location: CD board (SIDE B)
(See page 24.)

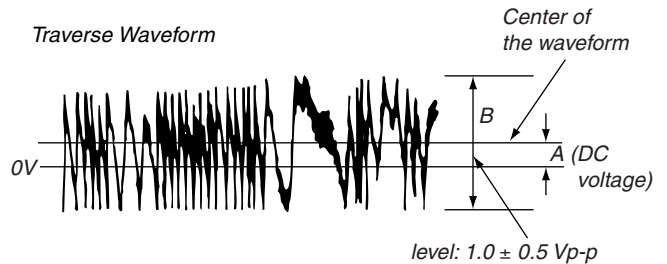
E-F Balance Check

Connection:



Procedure:

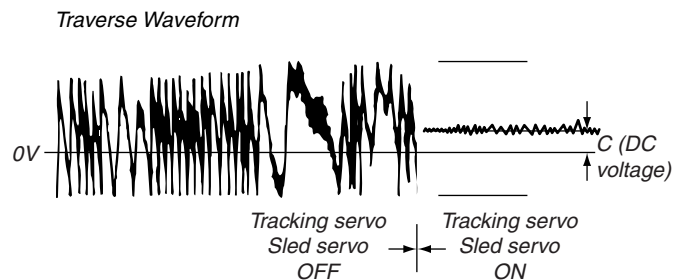
1. Connect an oscilloscope to test point TPO103 (TE1) and TP117 (VC) on the CD board.
2. Turn the power on.
3. Select the function “CD”.
4. Press three buttons of [ENTER], [▶▶], and [SURROUND MODE] simultaneously to set the CD service mode.
5. Put the disc (YEDS-18) in to playback the number five track.
6. Press the [◀◀] button. The message “TRAVERSE” is displayed. (The tracking servo and the sledding servo are turned OFF)
7. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform.
Confirm the following :
 $A/B \times 100 = \text{less than } \pm 22\%$



8. Press the [◀◀] button. The message “TRAVERSE” is displayed. (The tracking servo and sledding servo are turned ON)
Confirm the C (DC voltage) is almost equal to the A (DC voltage) is step 5.
9. To exit from this mode, perform as follows.
 - 1) Move the optical pick-up to the most inside track.
 - 2) Press three buttons of [■], [CLEAR], and [DISPLAY] simultaneously. (cold reset)

Notes:

- Always move the optical pick-up 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.

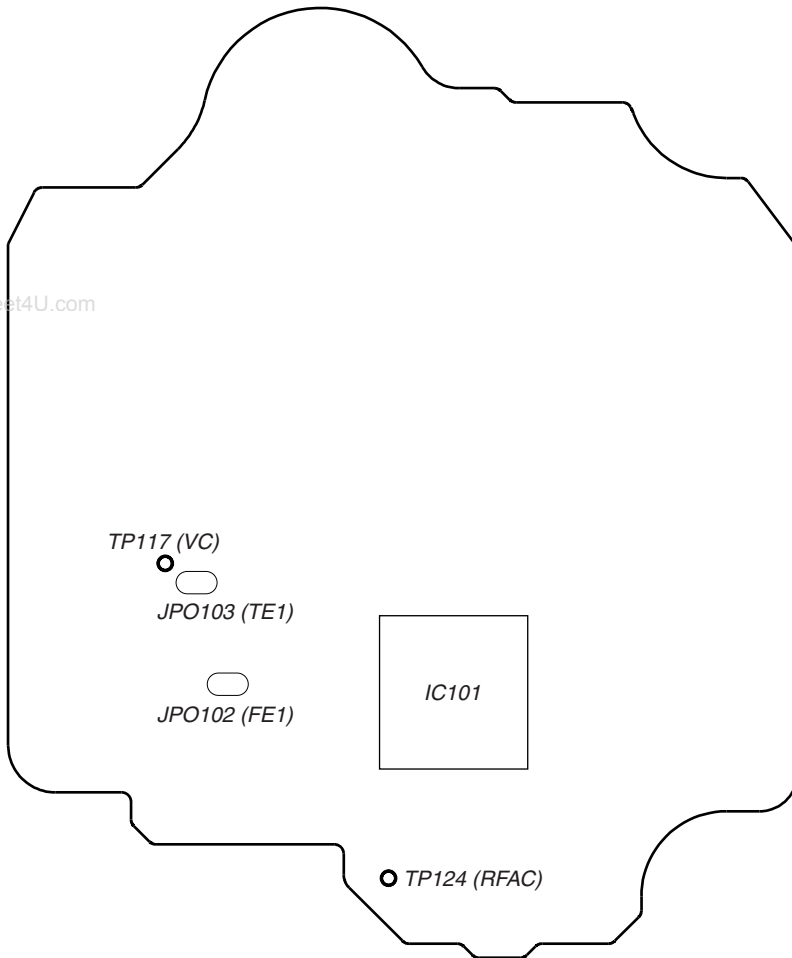


Checking Location: CD board (SIDE B) (See page 24.)

HCD-GNX60/GNX70/GX9900

Checking Location:



– CD BOARD (SIDE B) –













SECTION 7 DIAGRAMS

For schematic diagrams.

Note:

- All capacitors are in μF unless otherwise noted. (p: pF) 50 V or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4} W$ or less unless otherwise specified.
- % : indicates tolerance.
- Δ : internal component.
-  : nonflammable resistor.
-  : fusible resistor.

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



-  : panel designation.
-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
CD board
no mark: CD PLAY
Other board
no mark: TUNER (FM/AM)
() : CD PLAY
< > : TAPE PLAY
[] : TAPE REC
* : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 -  : TUNER (FM/AM)
 -  : TAPE PLAY (DECK A)
 -  : TAPE PLAY (DECK B)
 -  : RECORD
 -  : CD PLAY
 -  : MIC INPUT

• Abbreviation

- AR : Argentine model
- AUS : Australian model
- E2 : 120V AC Area in E model
- E3 : 240V AC Area in E model
- E51 : Chilean and Peruvian model

Note on Printed Wiring Boards:

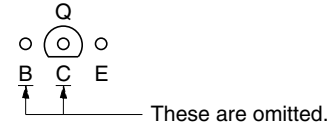
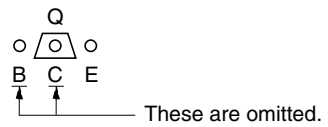
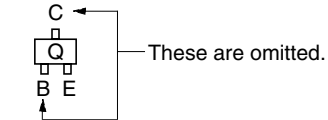
Note:

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

Caution:

Parts face side: Parts on the parts face side seen from the parts face are indicated.
 (Side A)
 Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.
 (Side B)

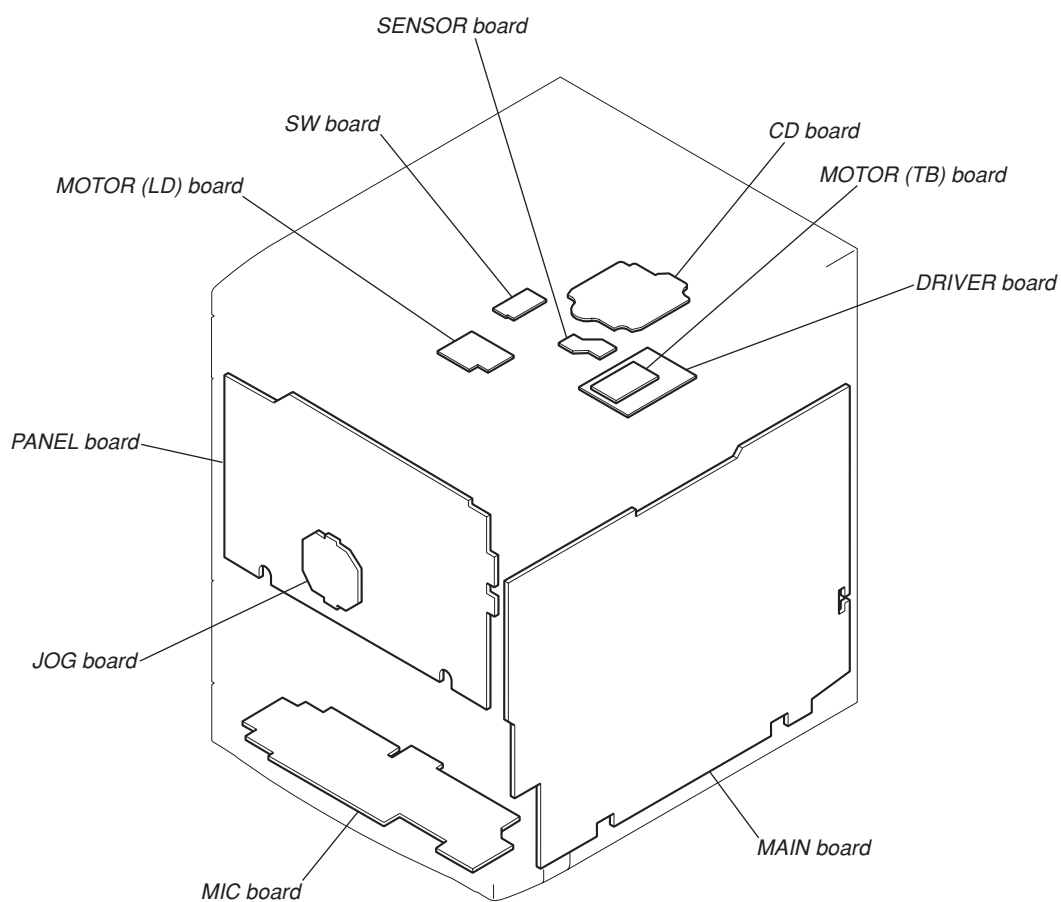
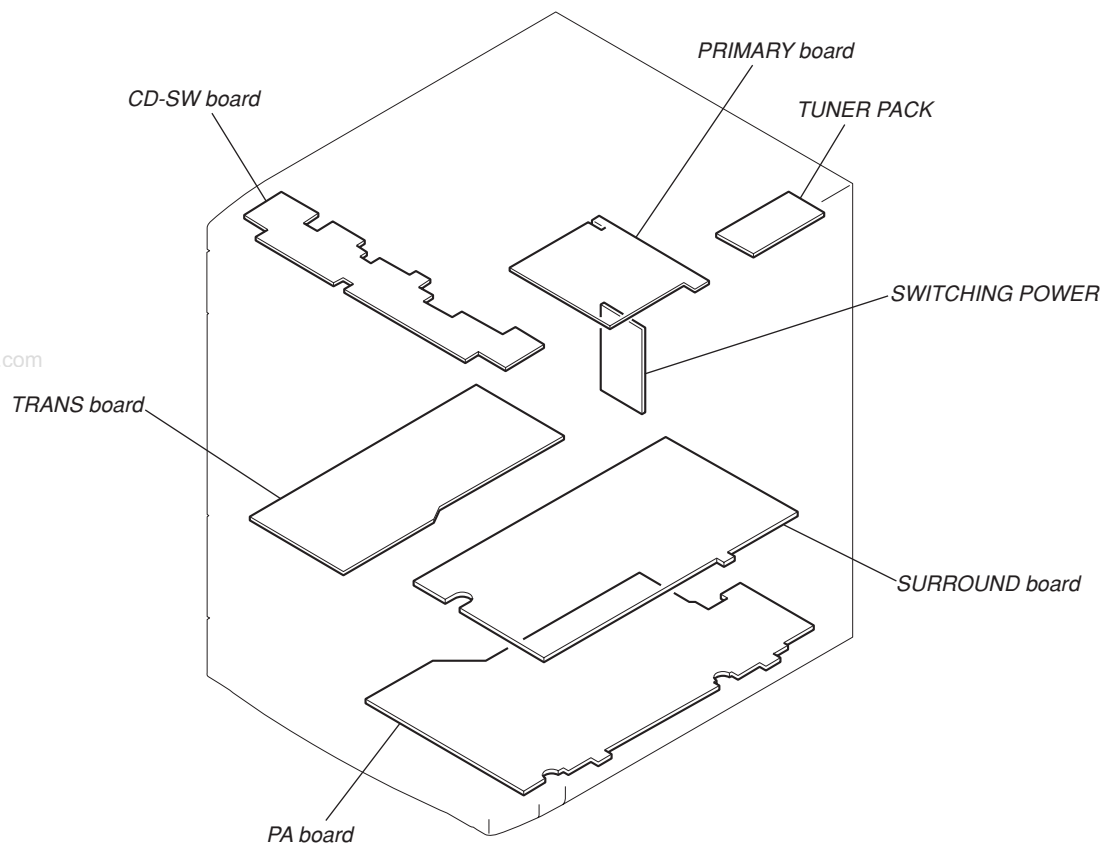
- Indication of transistor.



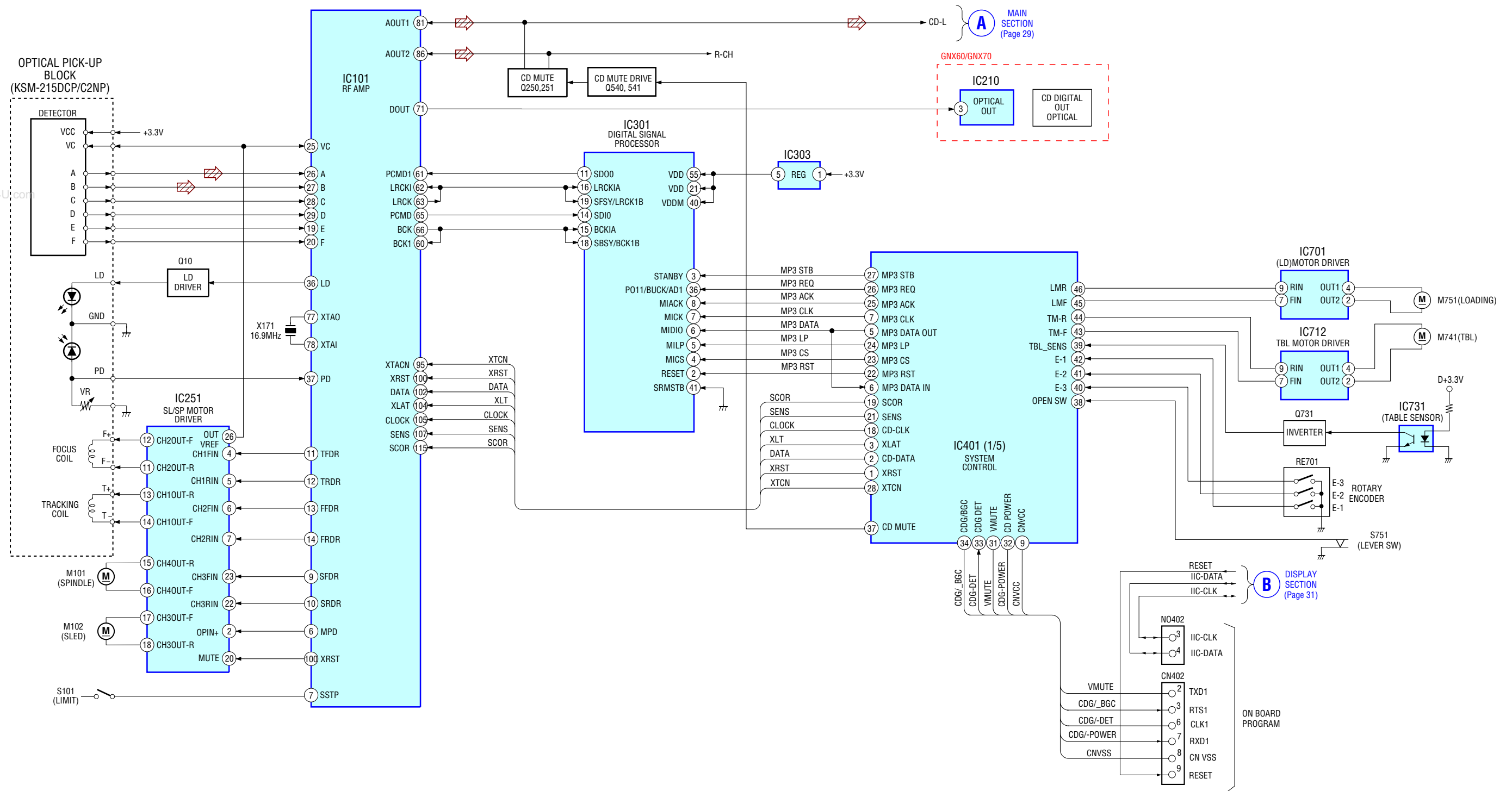
- Abbreviation

- AR : Argentine model
- AUS : Australian model
- E2 : 120V AC Area in E model
- E3 : 240V AC Area in E model
- E51 : Chilean and Peruvian model

7-1. CIRCUIT BOARD LOCATION



7-2. BLOCK DIAGRAM - CD SECTION -

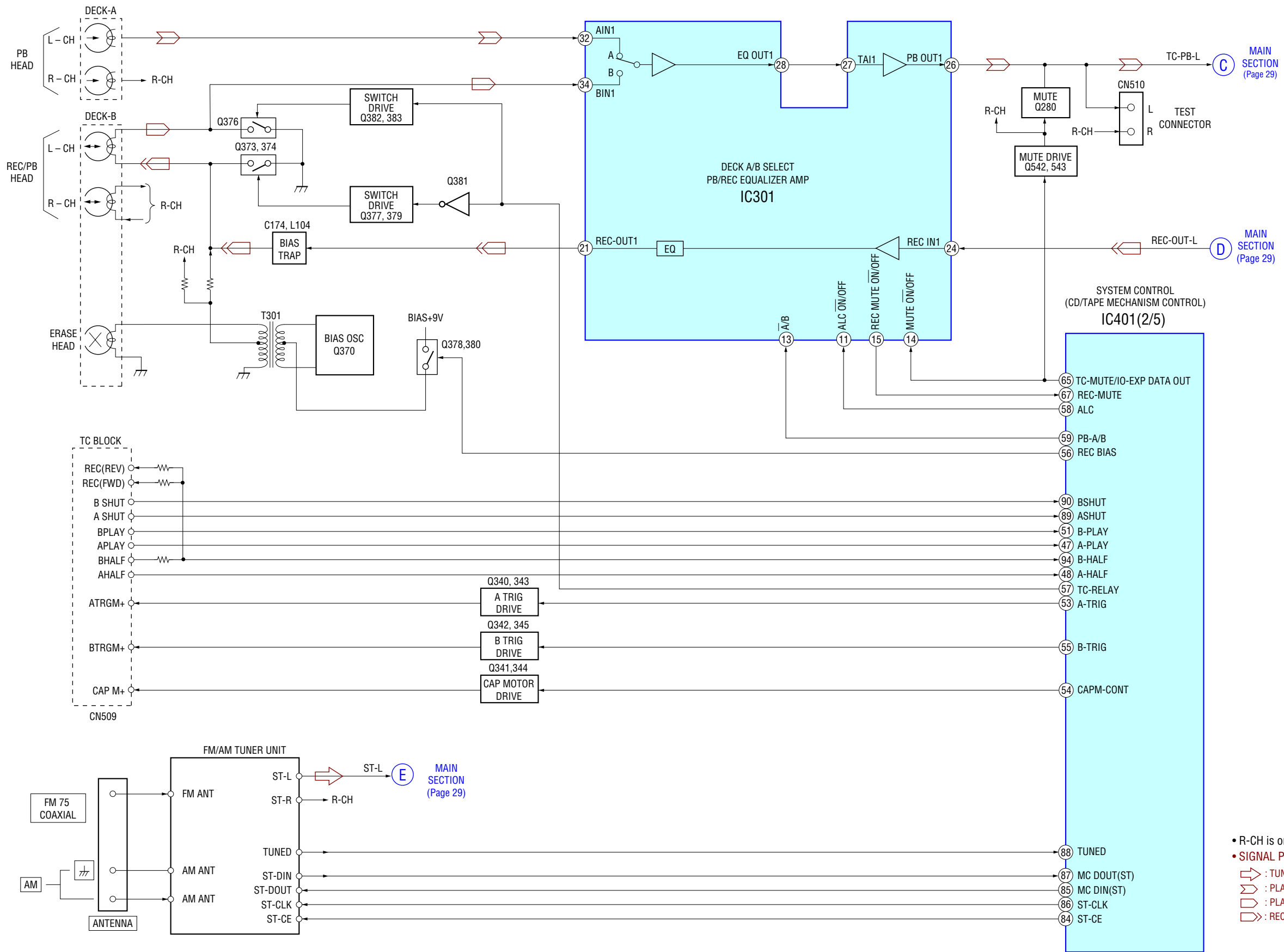


• R-CH is omitted due to same as L-CH.

• SIGNAL PATH

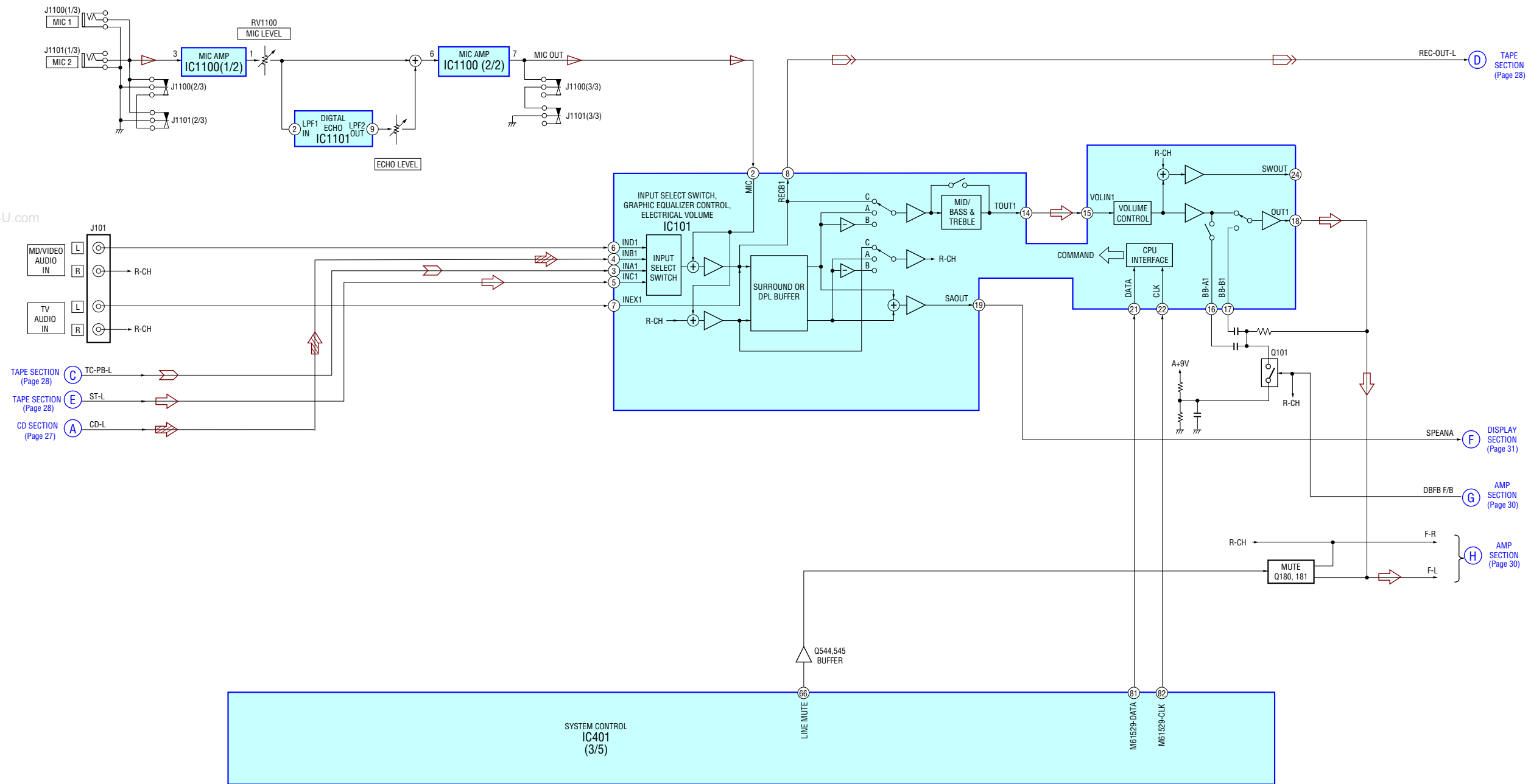
⇒ : CD

7-3. BLOCK DIAGRAM - TAPE SECTION -



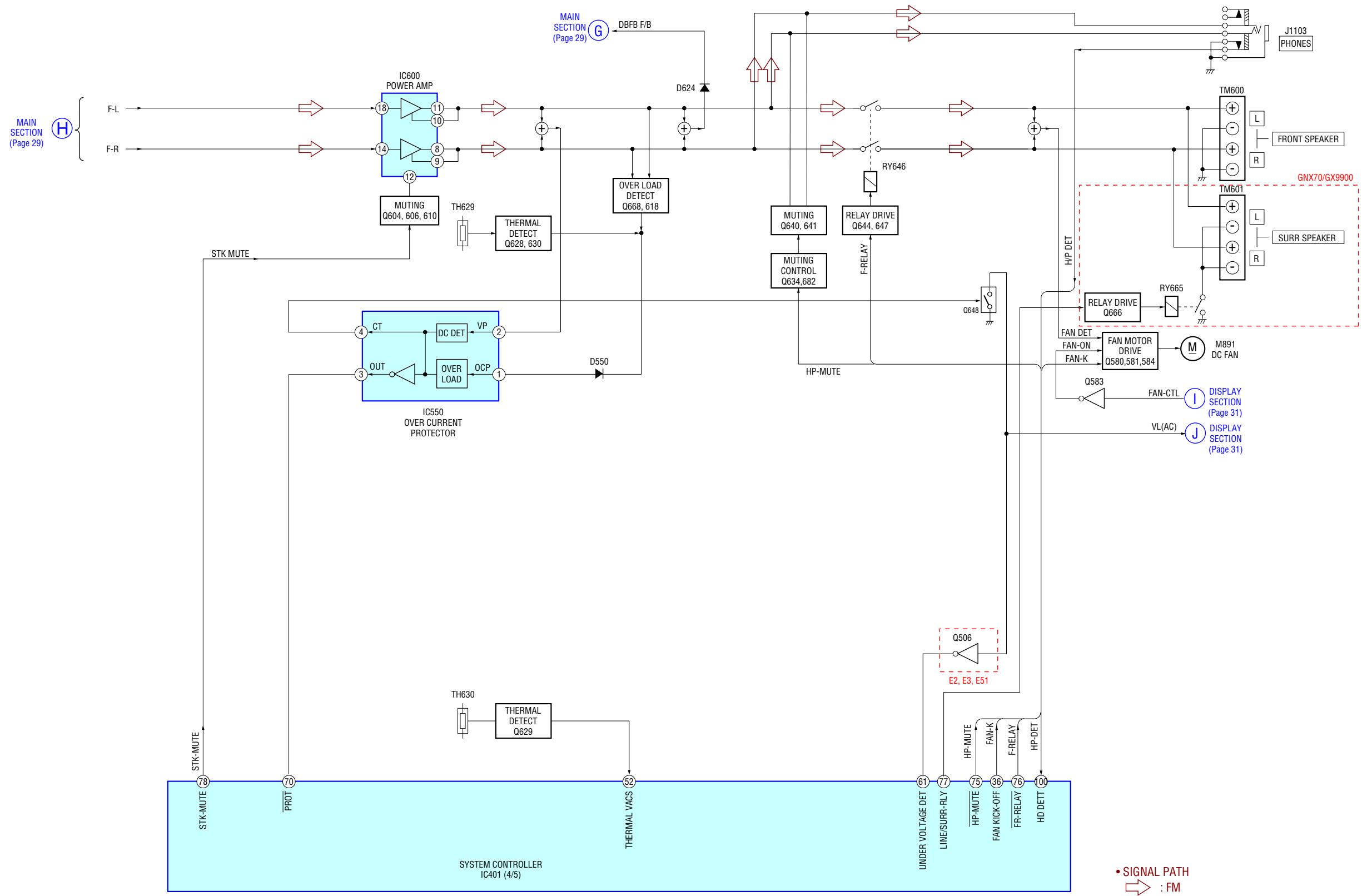
- R-CH is omitted due to same as L-CH.
- SIGNAL PATH
- : TUNER (FM/AM)
- : PLAYBACK (DECK A)
- : PLAYBACK (DECK B)
- : RECORD

7-4. BLOCK DIAGRAM - MAIN SECTION -

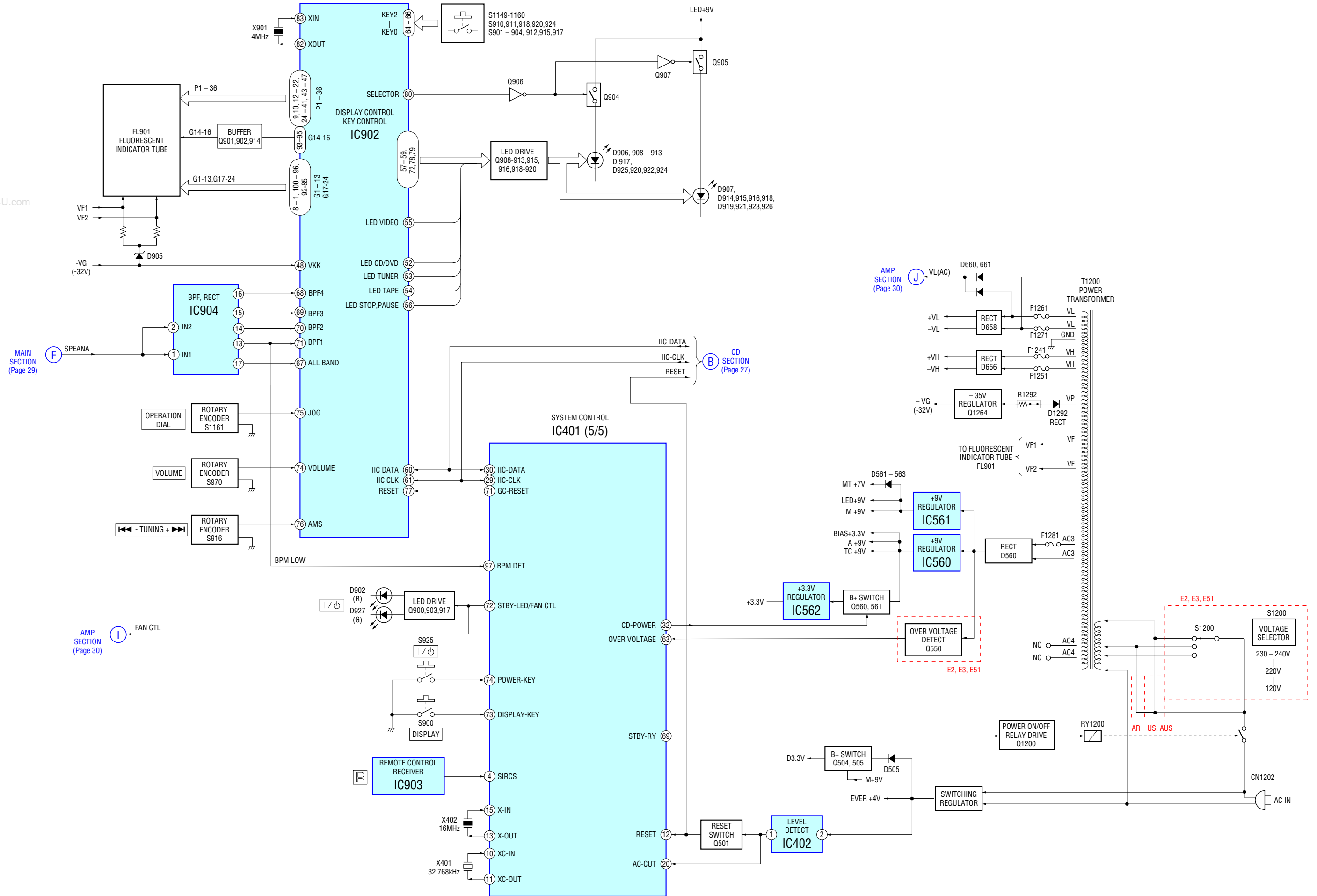


- R-CH is omitted due to same as L-CH.
- SIGNAL PATH
 - ⇨ : TUNER (FM/AM)
 - ⇨ : CD
 - ⇨ : TAPE PLAY
 - ⇨ : RECORD
 - ⇨ : MIC INPUT

7-5. BLOCK DIAGRAM – AMP SECTION –



7-6. BLOCK DIAGRAM - DISPLAY SECTION -



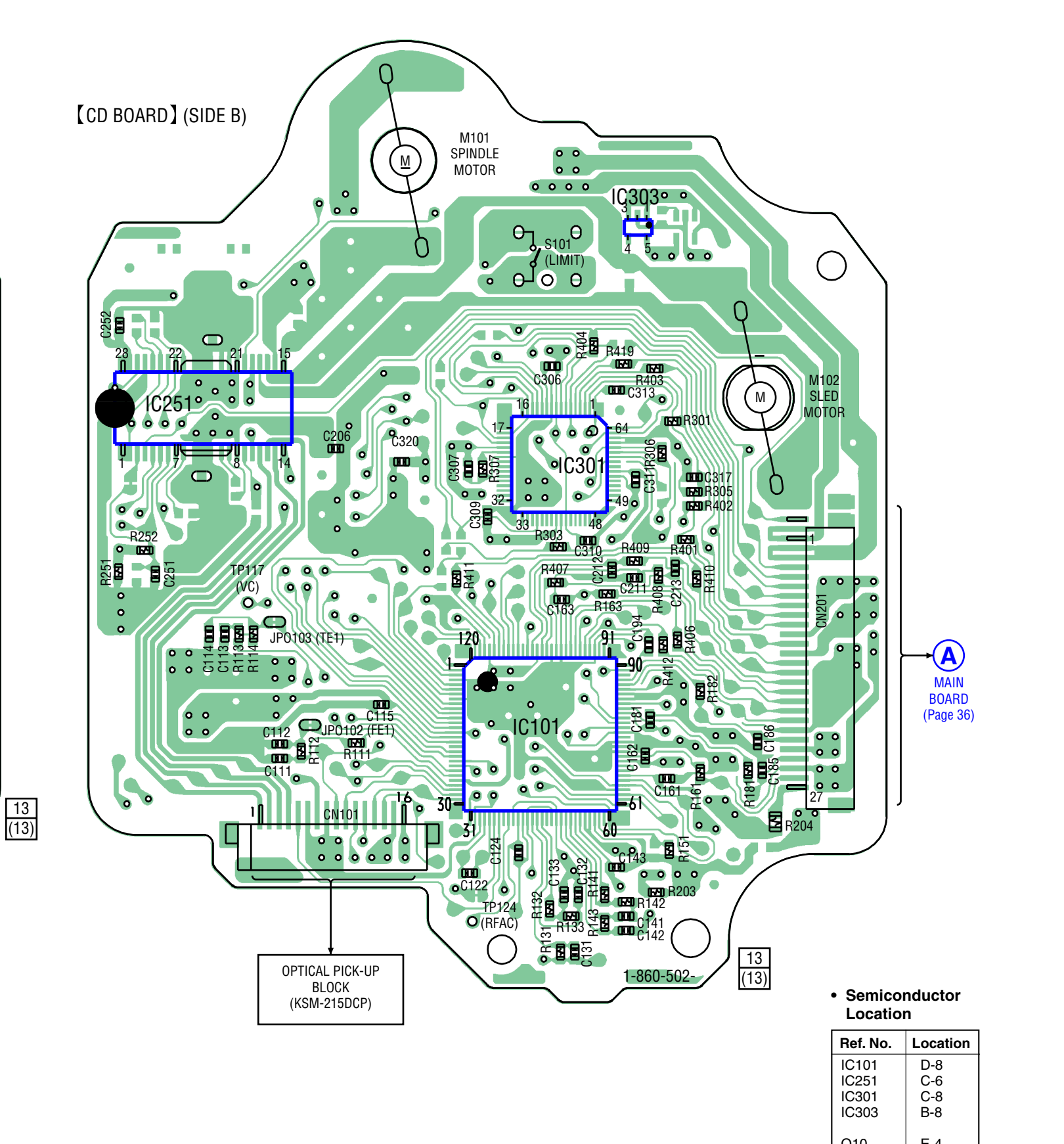
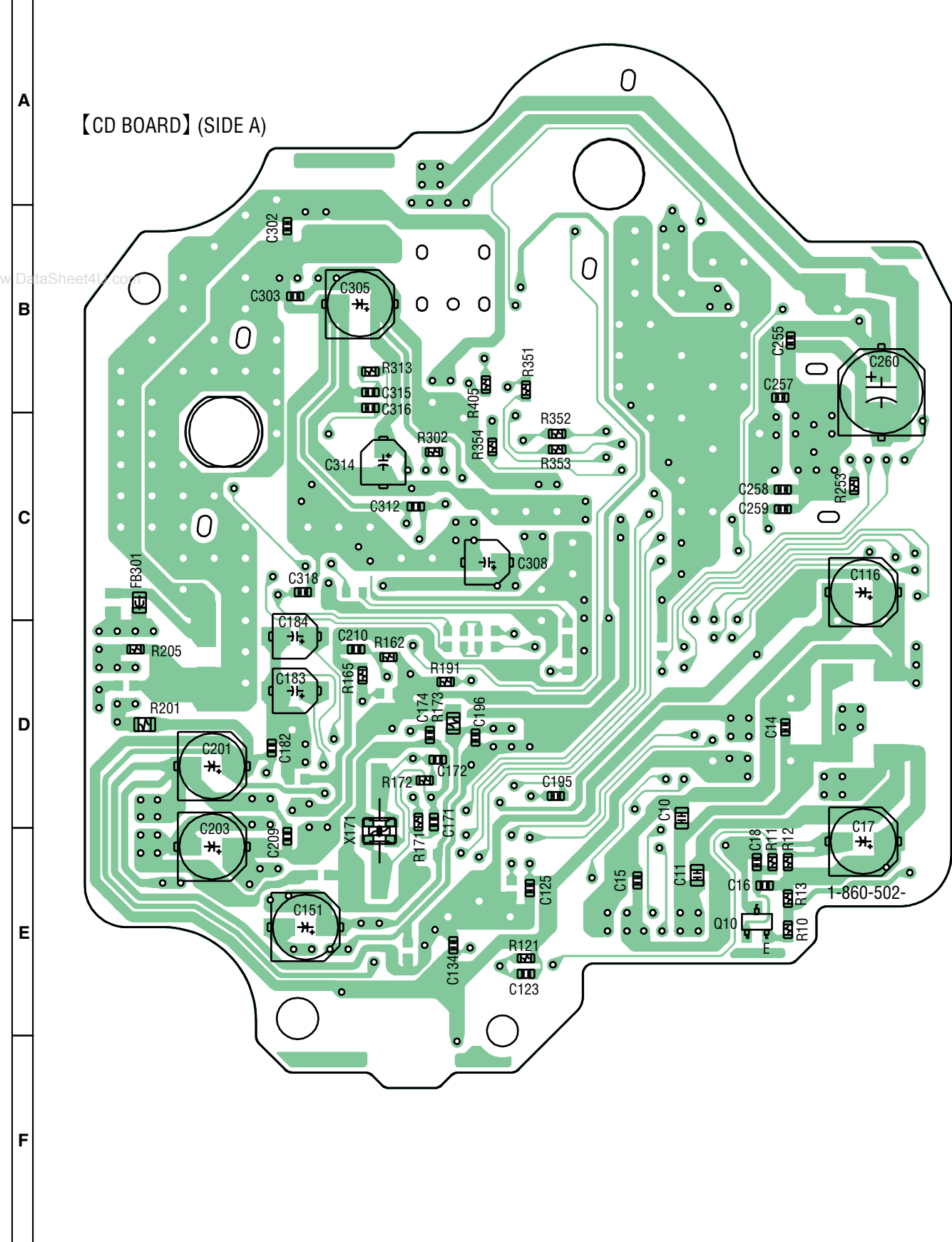
www.DataSheet4U.com

7-7. PRINTED WIRING BOARD – CD BOARD –

• See page 26 for Circuit Boards Location.

 : Uses unleaded solder.

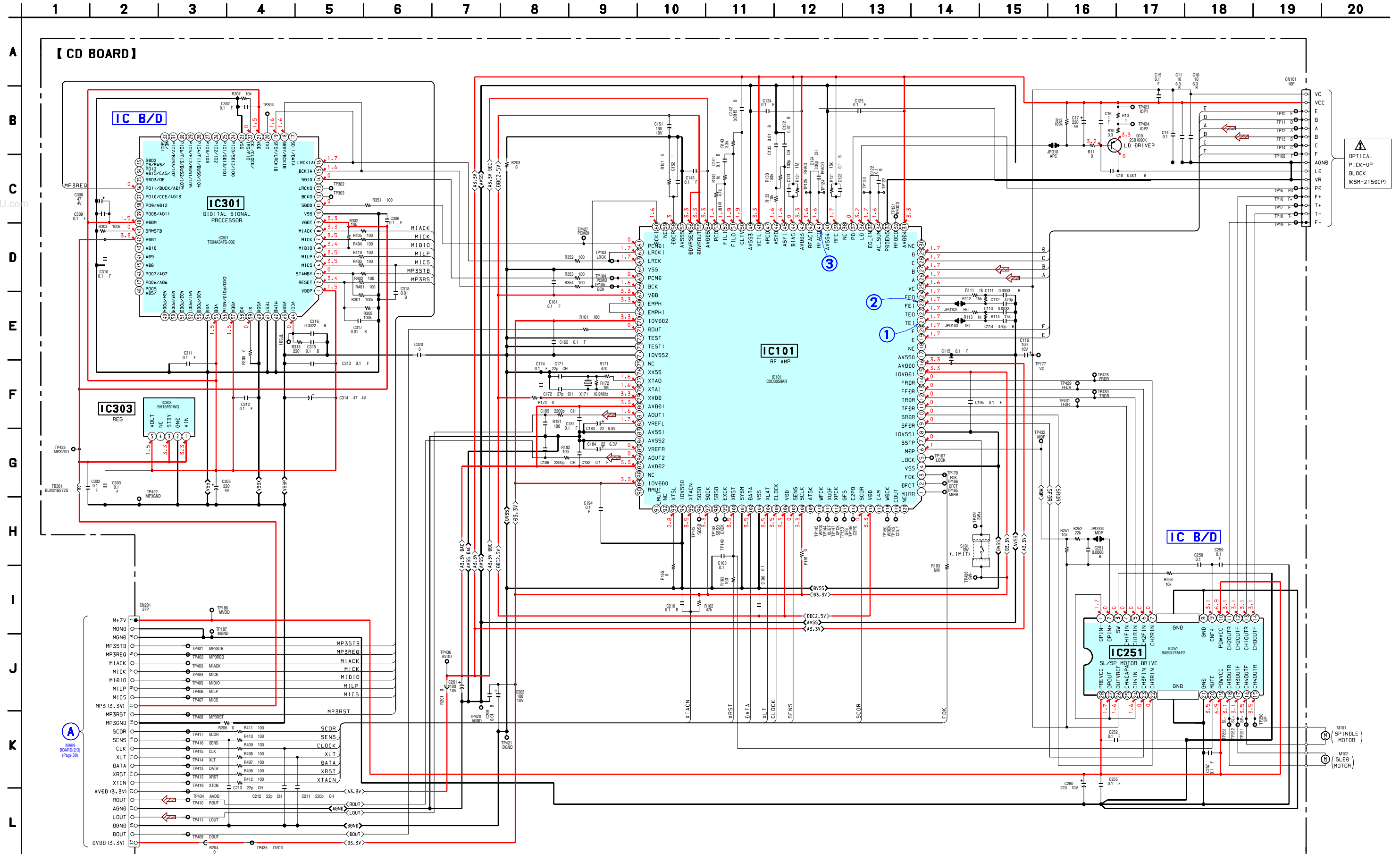
| | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--|---|---|---|---|---|---|---|---|---|----|



• Semiconductor Location


| Ref. No. | Location |
|----------|----------|
| IC101 | D-8 |
| IC251 | C-6 |
| IC301 | C-8 |
| IC303 | B-8 |
| Q10 | E-4 |

7-8. SCHEMATIC DIAGRAM – CD BOARD – • See page 49 for IC Block Diagrams. • See page 48 for Waveforms. • See page 50 for IC Pin Function Description.



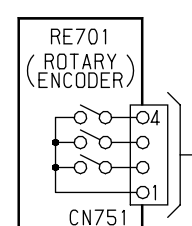
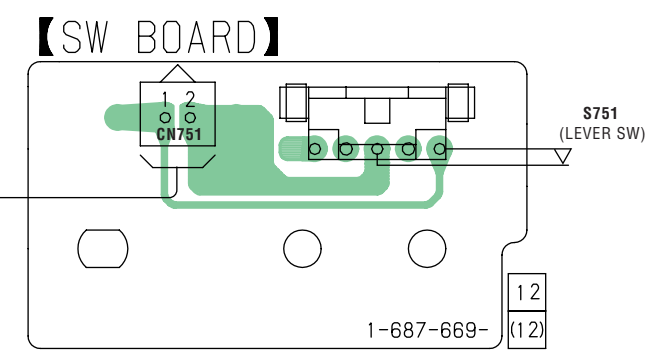
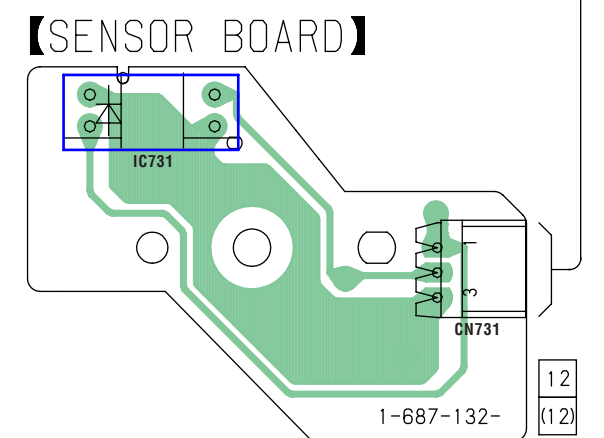
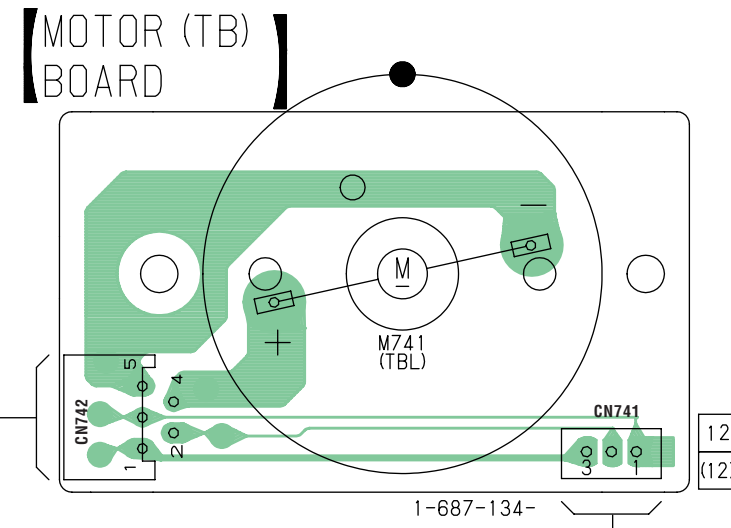
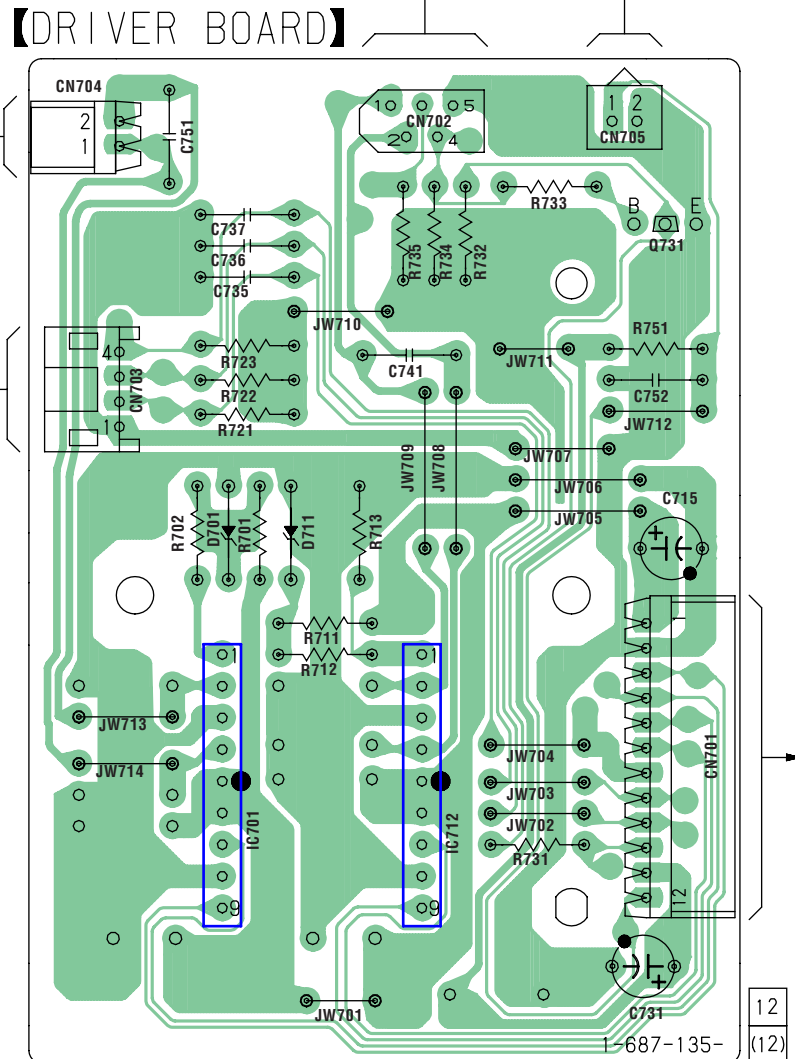
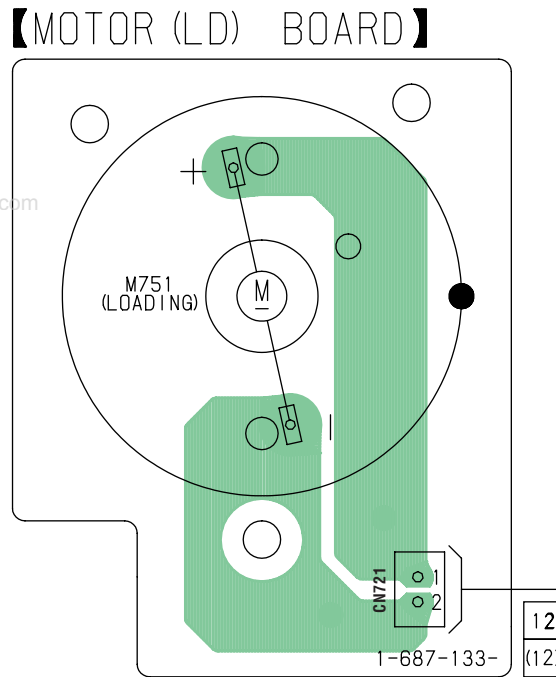
7-9. PRINTED WIRING BOARD – CD MECHANISM BOARDS –

• See page 26 for Circuit Boards Location.

 : Uses unleaded solder.

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

A
B
C
D
E
F
G
H

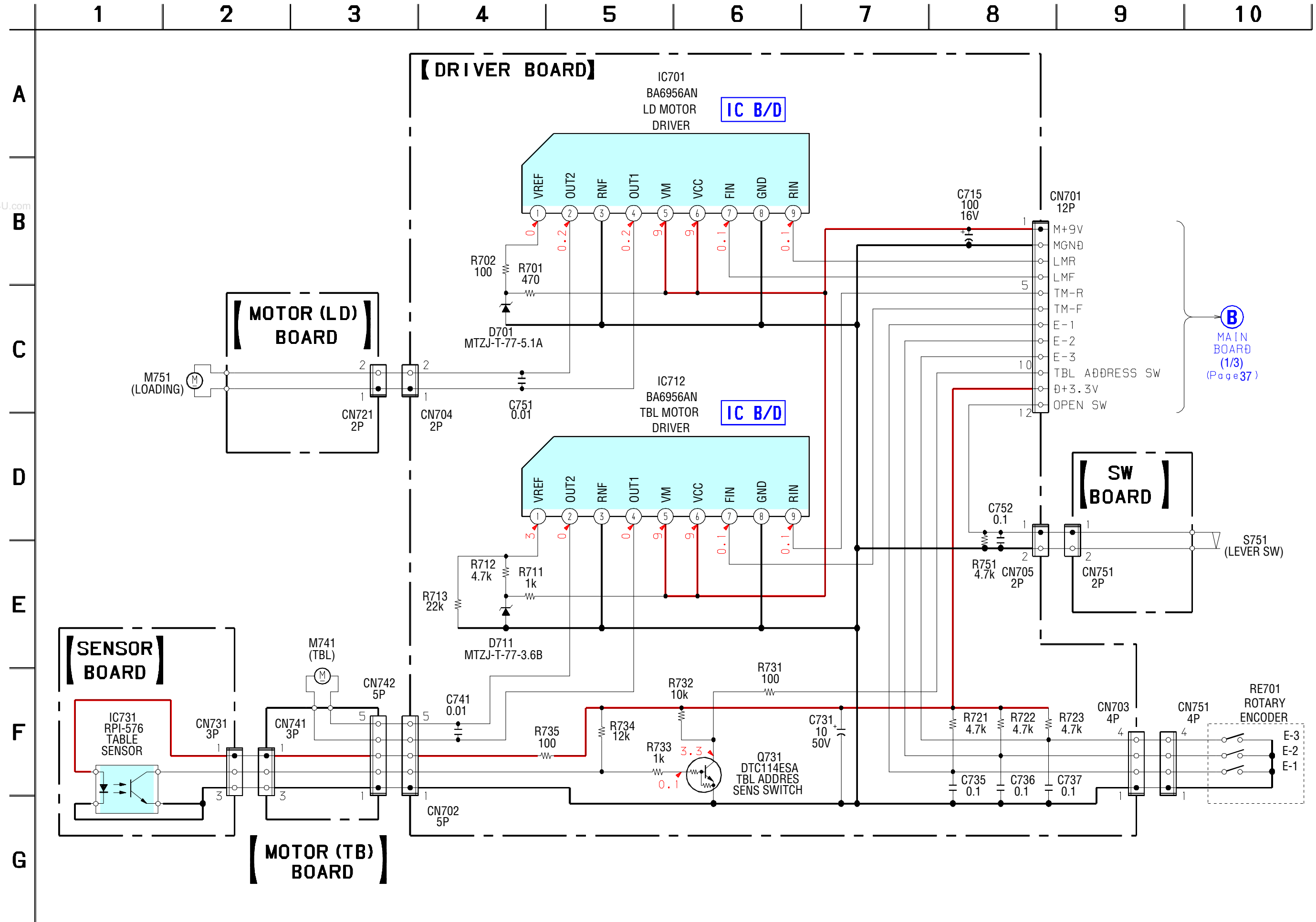


B MAIN BOARD (Page 36)

• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D701 | D-6 |
| D711 | D-7 |
| IC701 | F-6 |
| IC712 | F-7 |
| IC731 | E-11 |
| Q731 | C-9 |

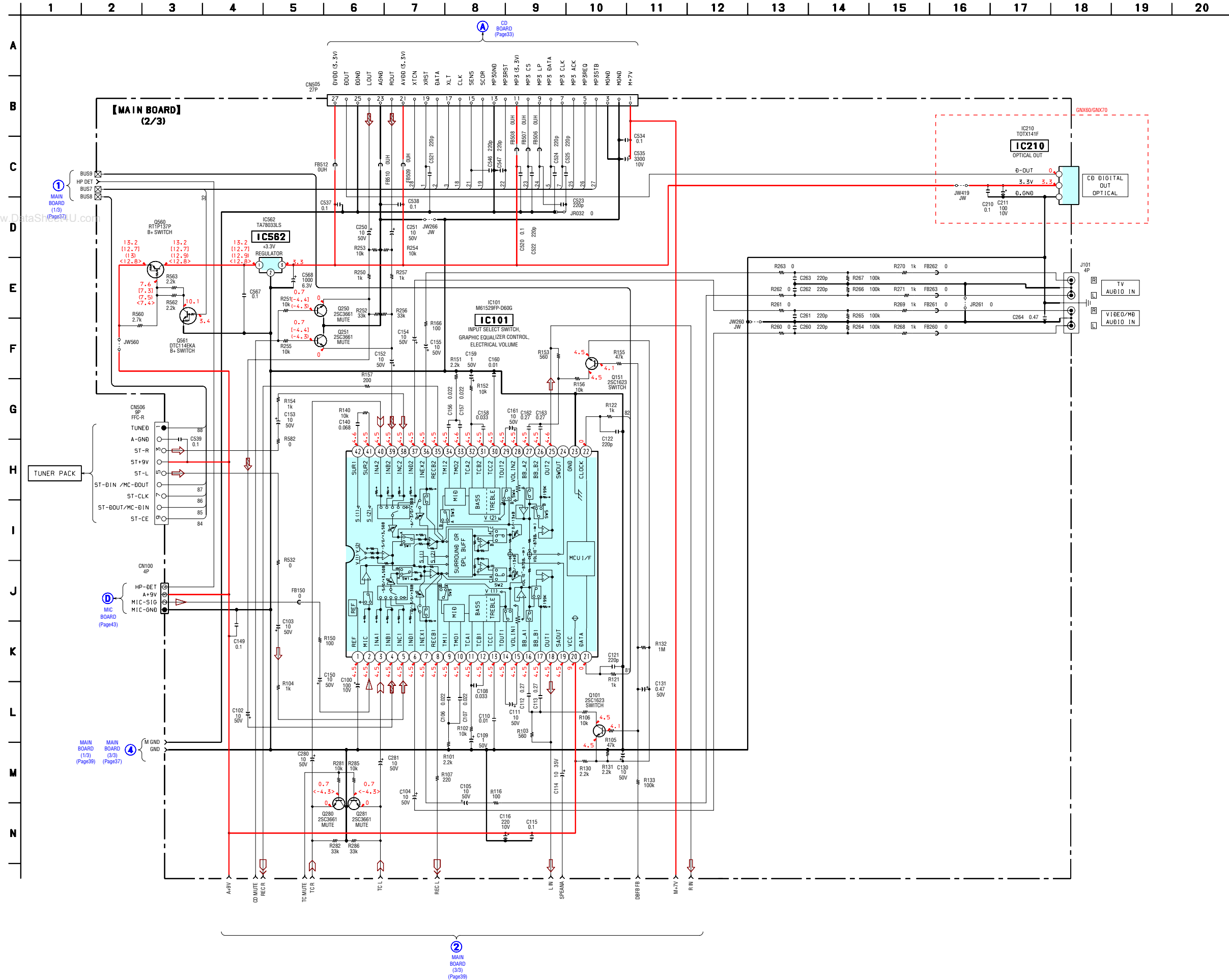
7-10. SCHEMATIC DIAGRAM - CD MECHANISM BOARDS - See page 48 for IC Block Diagrams.



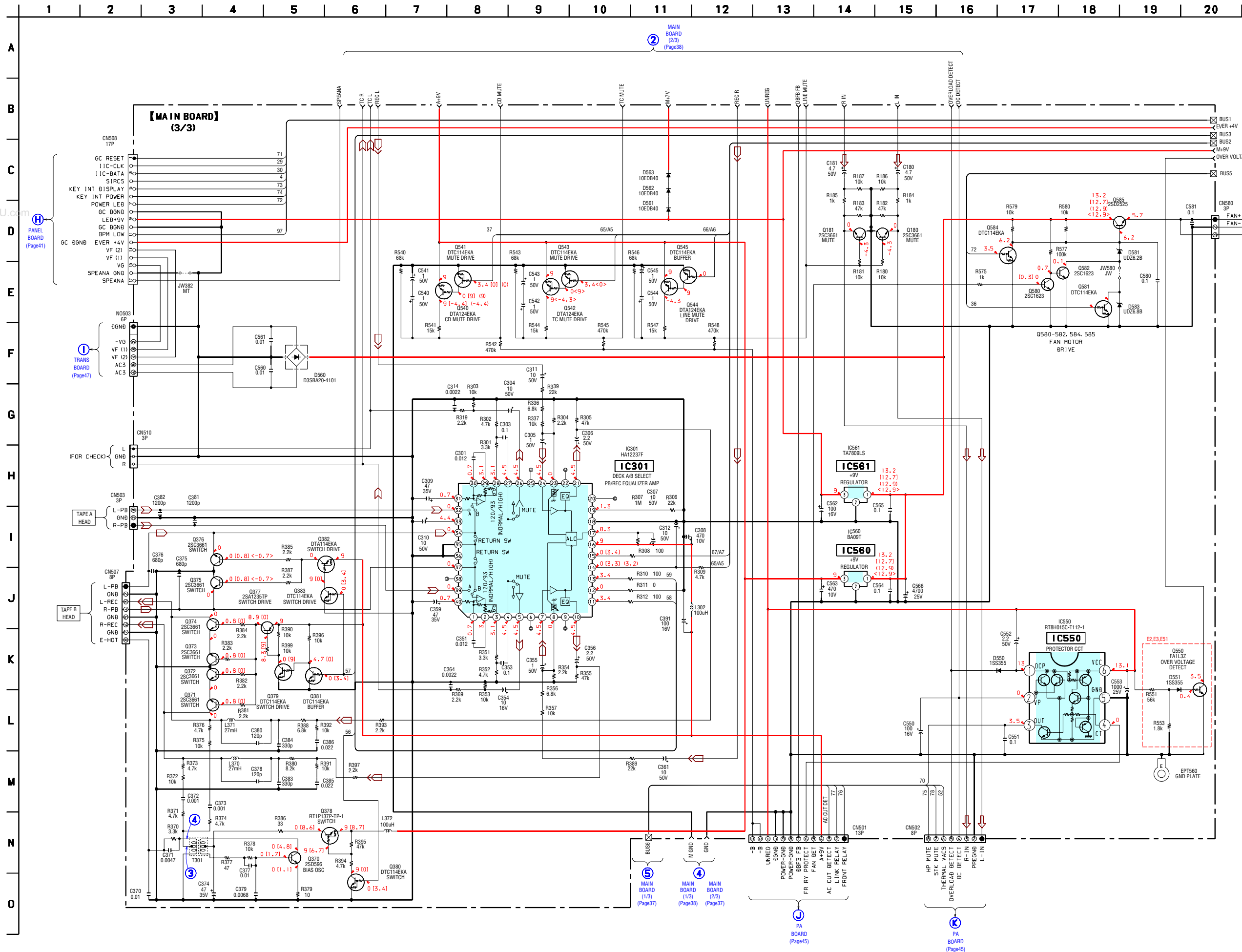
www.DataSheet4U.com

B
MAIN BOARD (1/3)
(Page 37)

7-13. SCHEMATIC DIAGRAM – MAIN BOARD (2/3) –



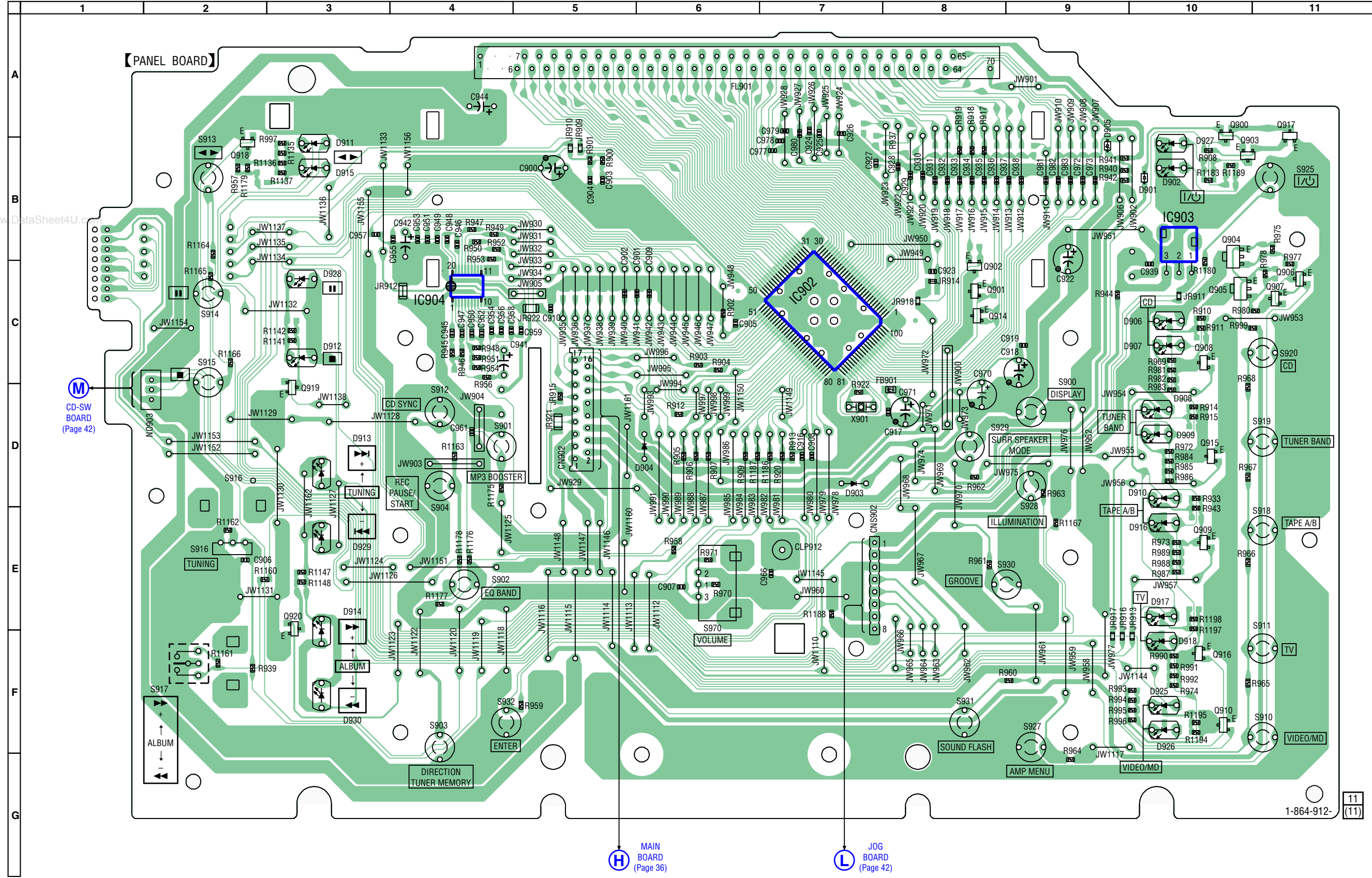
7-14. SCHEMATIC DIAGRAM – MAIN BOARD (3/3) – • See page 48 for Waveforms.



7-15. PRINTED WIRING BOARD – PANEL BOARD –

• See page 26 for Circuit Boards Location.

 : Uses unleaded solder.

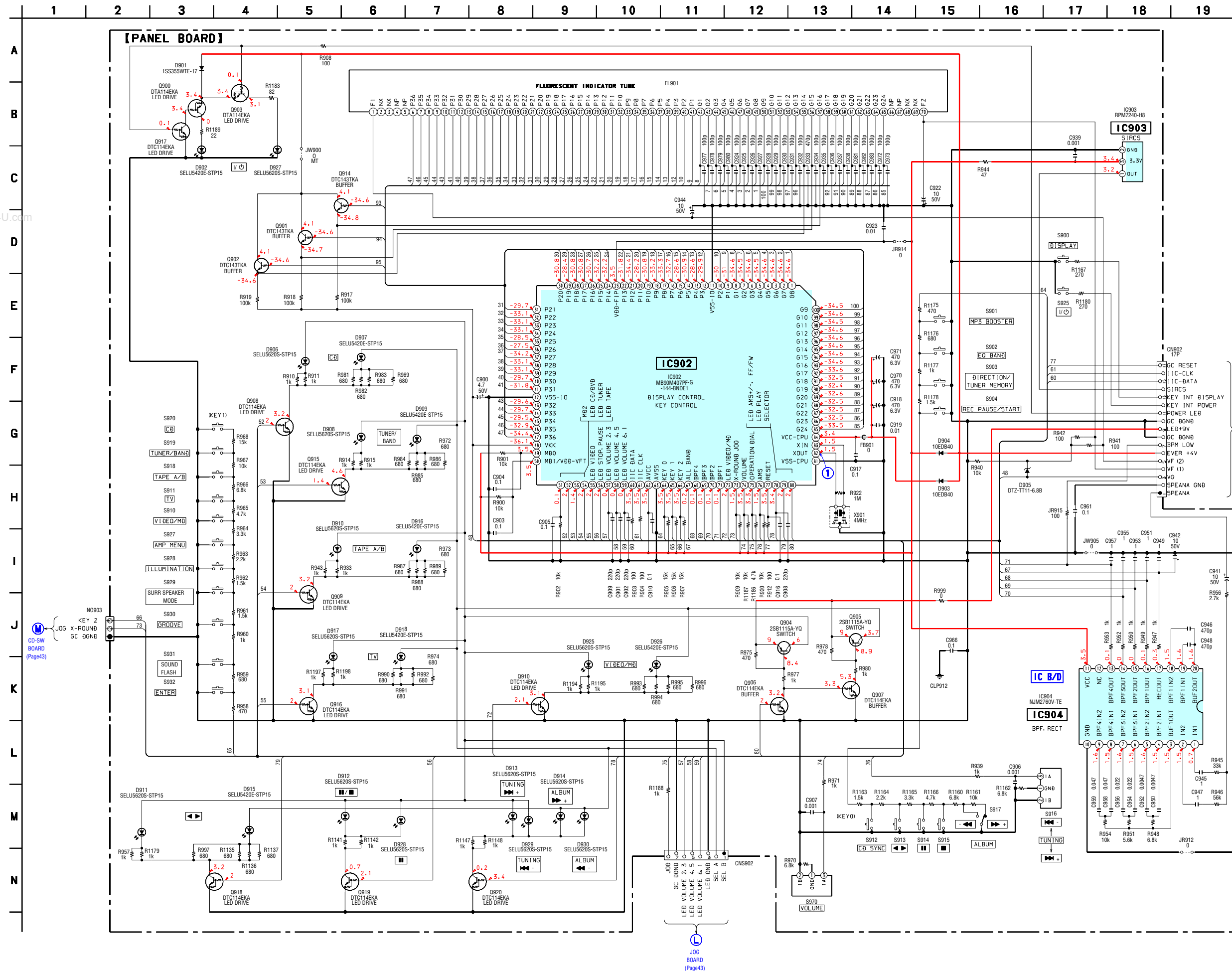


• Semiconductor Location

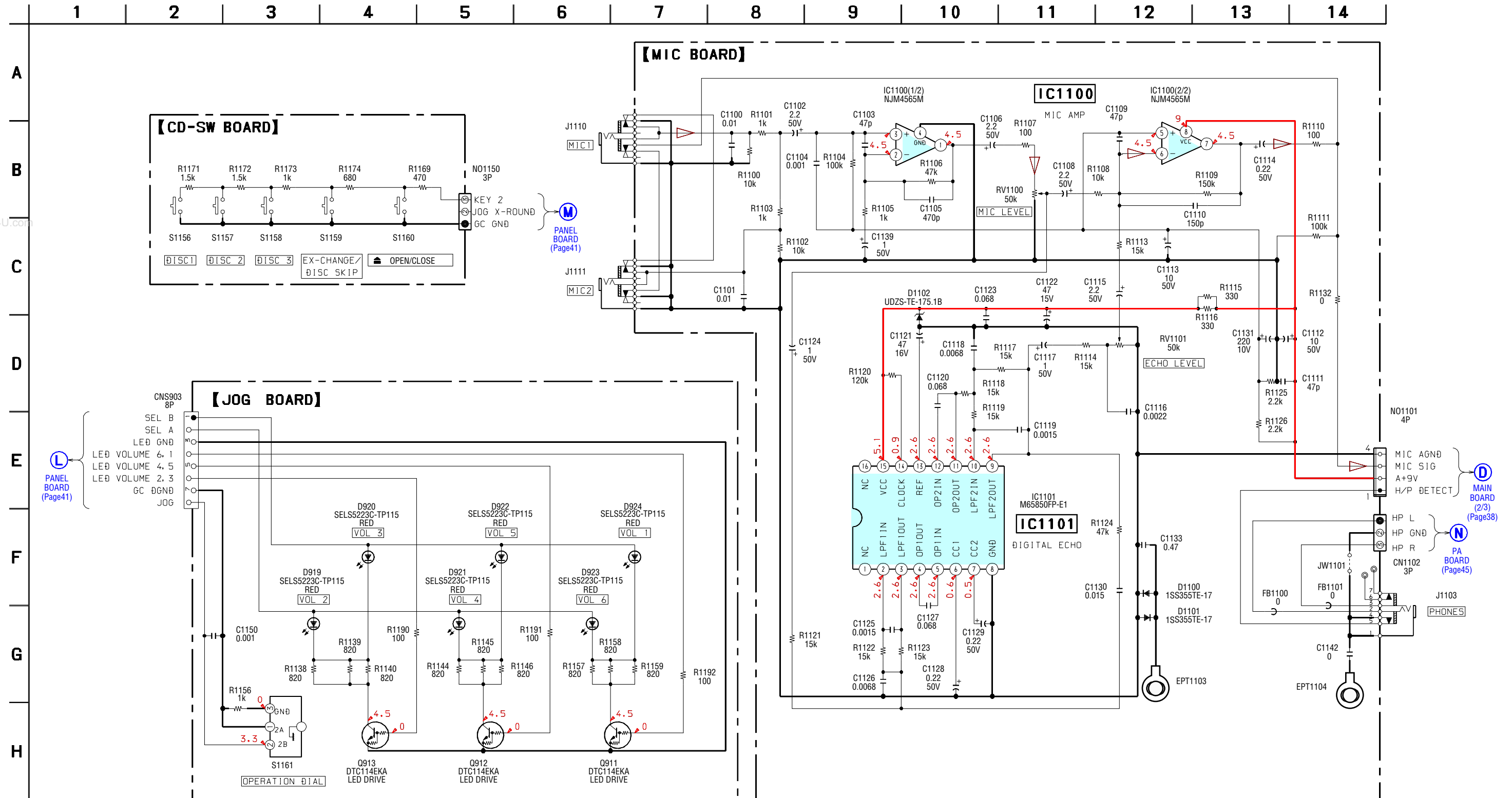
| Ref. No. | Location |
|----------|----------|
| D901 | B-10 |
| D902 | B-10 |
| D903 | D-7 |
| D904 | D-6 |
| D905 | B-9 |
| D906 | C-10 |
| D907 | C-10 |
| D908 | D-10 |
| D909 | D-10 |
| D910 | D-10 |
| D911 | B-3 |
| D912 | C-3 |
| D913 | D-3 |
| D914 | E-3 |
| D915 | B-3 |
| D916 | E-10 |
| D917 | E-10 |
| D918 | F-10 |
| D925 | F-10 |
| D926 | F-10 |
| D927 | B-10 |
| D928 | C-3 |
| D929 | E-3 |
| D930 | F-3 |
| IC902 | C-7 |
| IC903 | B-10 |
| IC904 | C-4 |
| Q900 | A-10 |
| Q901 | C-8 |
| Q902 | C-8 |
| Q903 | B-10 |
| Q904 | B-10 |
| Q905 | C-10 |
| Q906 | C-11 |
| Q907 | C-11 |
| Q908 | C-10 |
| Q909 | E-10 |
| Q910 | F-10 |
| Q914 | C-8 |
| Q915 | D-10 |
| Q916 | F-10 |
| Q917 | A-11 |
| Q918 | B-2 |
| Q919 | D-3 |
| Q920 | E-3 |

7-16. SCHEMATIC DIAGRAM – PANEL BOARD –

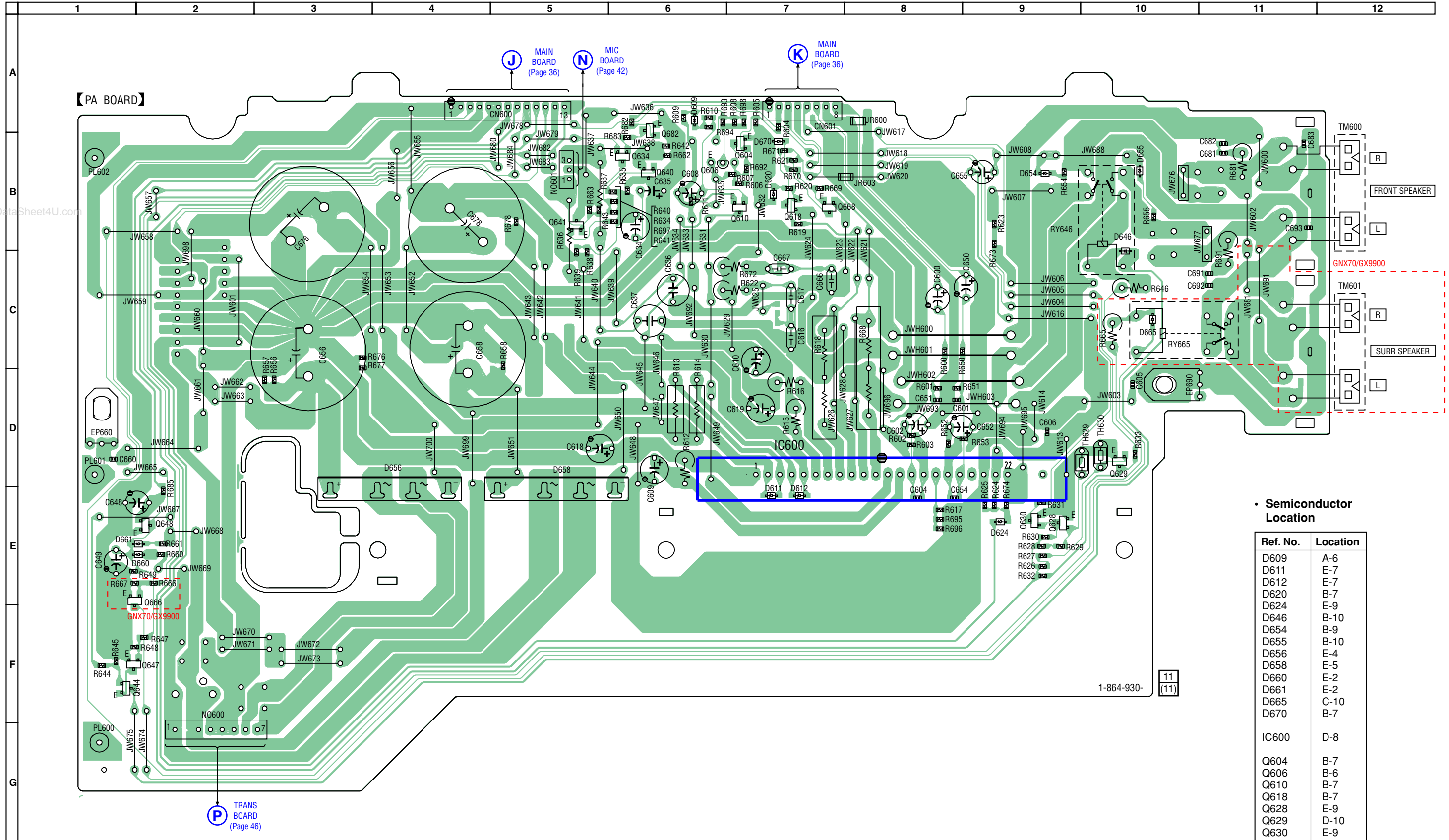
• See page 48 for IC Block Diagrams. • See page 48 for Waveforms. • See page 55 for IC Pin Function Description.



7-18. SCHEMATIC DIAGRAM – CD-SW, JOG, MIC BOARDS –



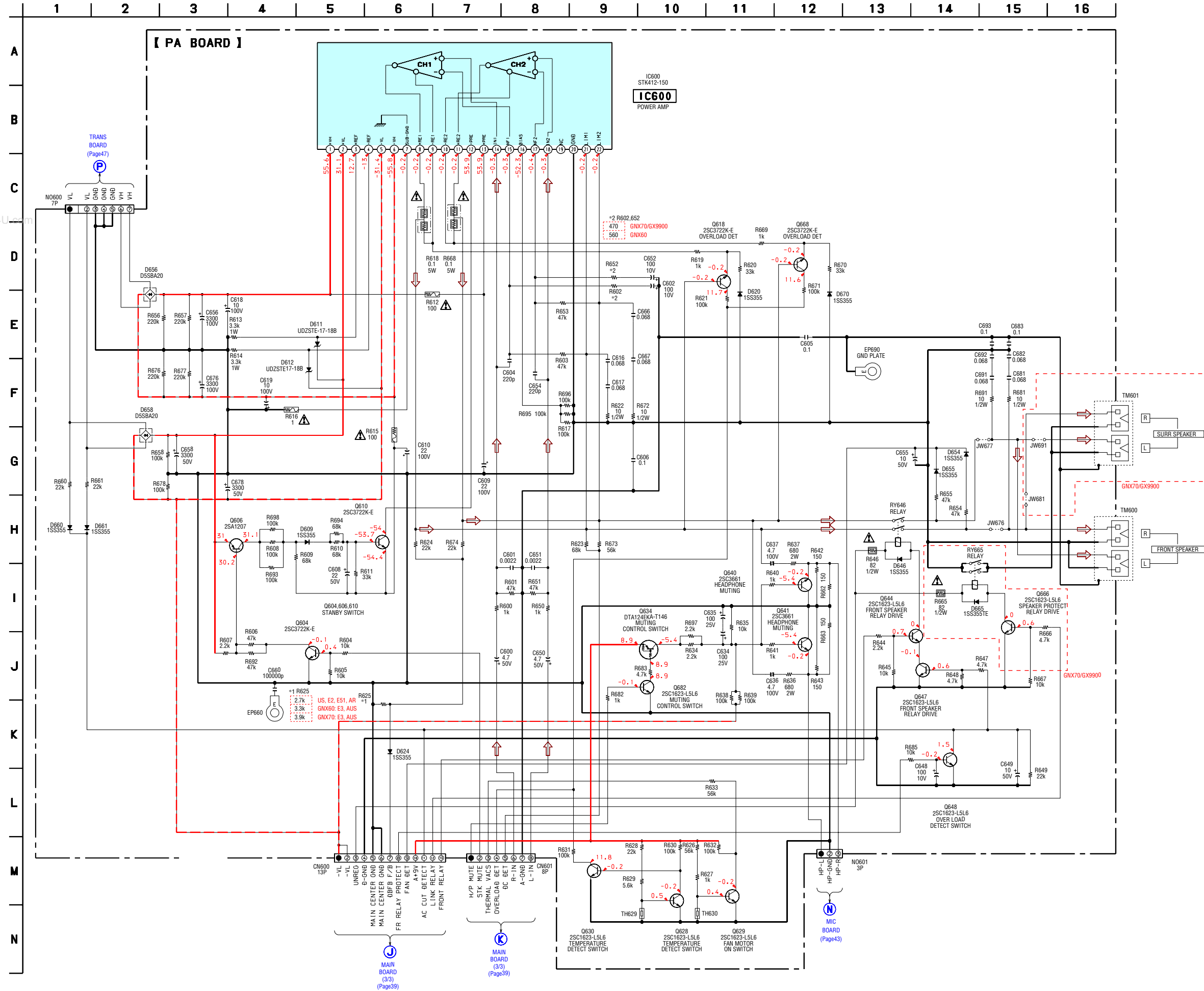
 : Uses unleaded solder.



• Semiconductor Location


| Ref. No. | Location |
|----------|----------|
| D609 | A-6 |
| D611 | E-7 |
| D612 | E-7 |
| D620 | B-7 |
| D624 | E-9 |
| D646 | B-10 |
| D654 | B-9 |
| D655 | B-10 |
| D656 | E-4 |
| D658 | E-5 |
| D660 | E-2 |
| D661 | E-2 |
| D665 | C-10 |
| D670 | B-7 |
| IC600 | D-8 |
| Q604 | B-7 |
| Q606 | B-6 |
| Q610 | B-7 |
| Q618 | B-7 |
| Q628 | E-9 |
| Q629 | D-10 |
| Q630 | E-9 |
| Q634 | B-6 |
| Q640 | B-6 |
| Q641 | B-5 |
| Q644 | F-1 |
| Q647 | F-1 |
| Q648 | E-2 |
| Q666 | E-1 |
| Q668 | B-7 |
| Q682 | A-6 |

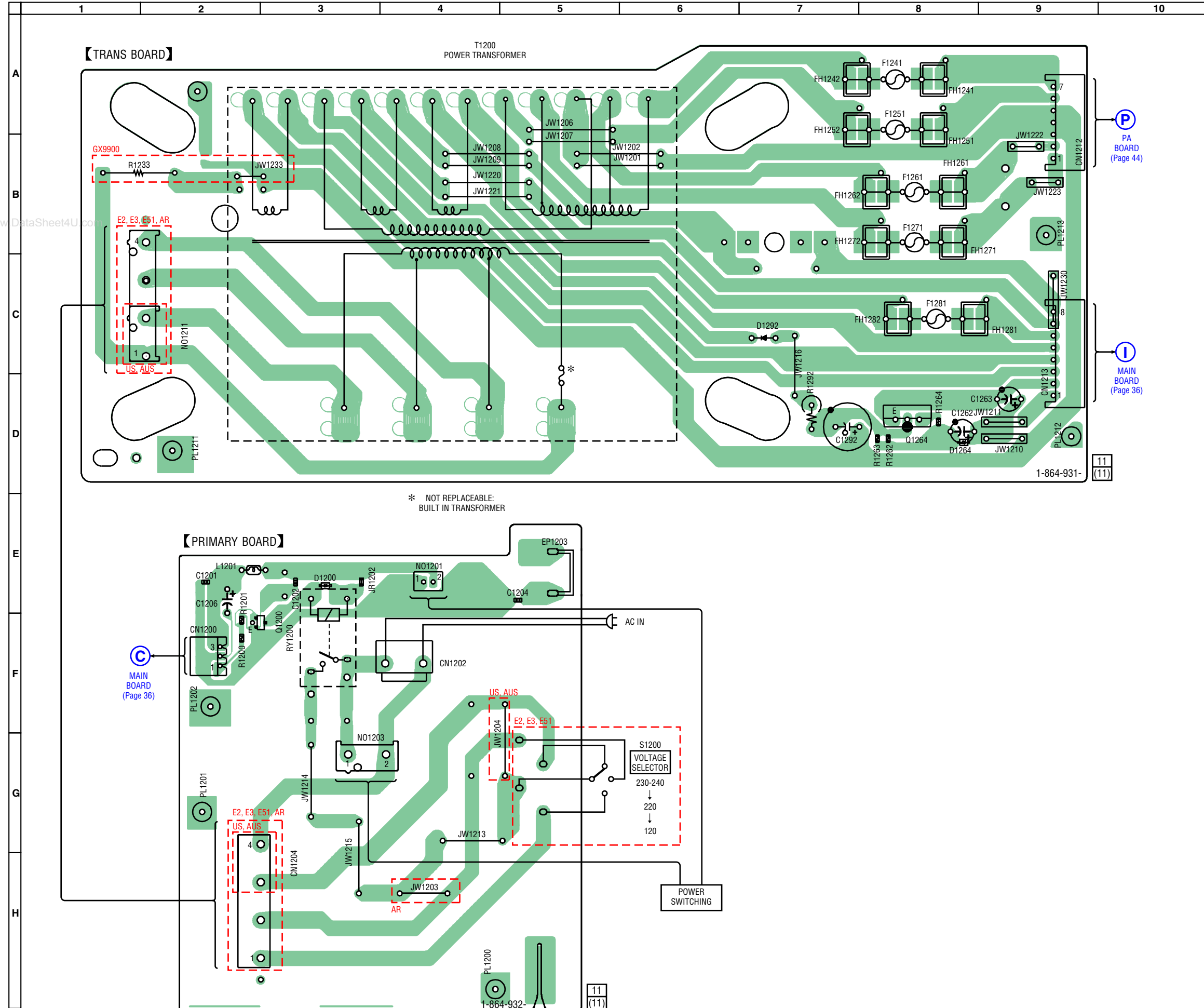
7-20. SCHEMATIC DIAGRAM – PA BOARD –



7-21. PRINTED WIRING BOARD – TRANS, PRIMARY BOARDS –

• See page 26 for Circuit Boards Location.

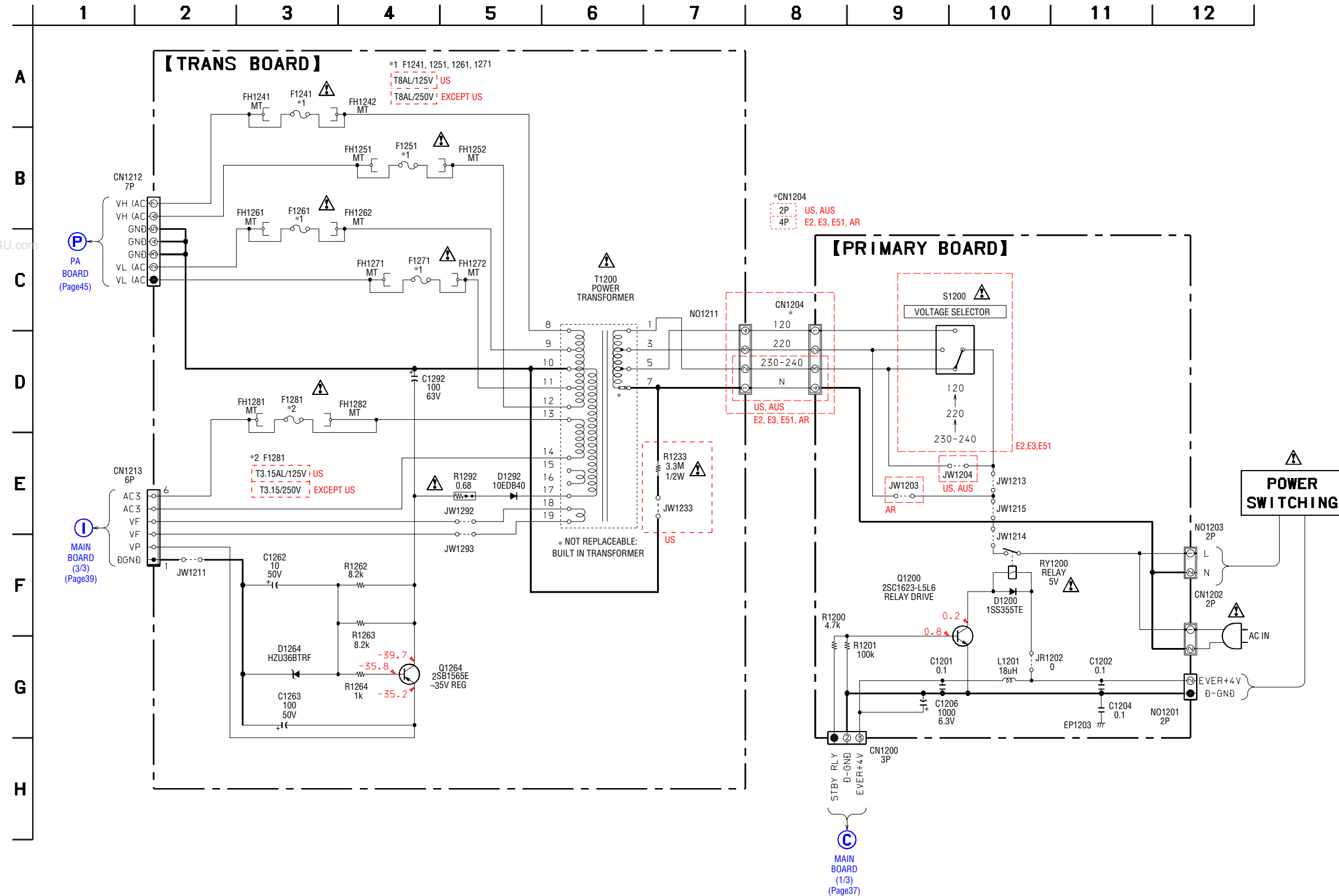
 : Uses unleaded solder.



• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D1200 | E-3 |
| D1264 | D-8 |
| D1292 | C-7 |
| Q1200 | F-3 |
| Q1264 | D-8 |

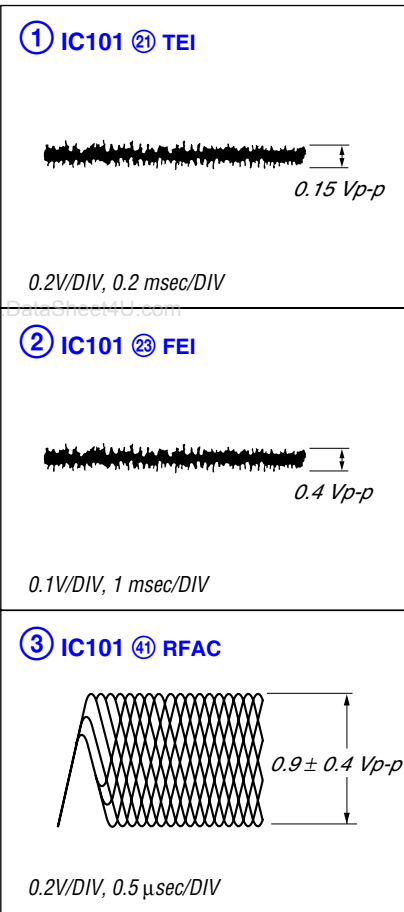
7-22. SCHEMATIC DIAGRAM - TRANS, PRIMARY BOARD -



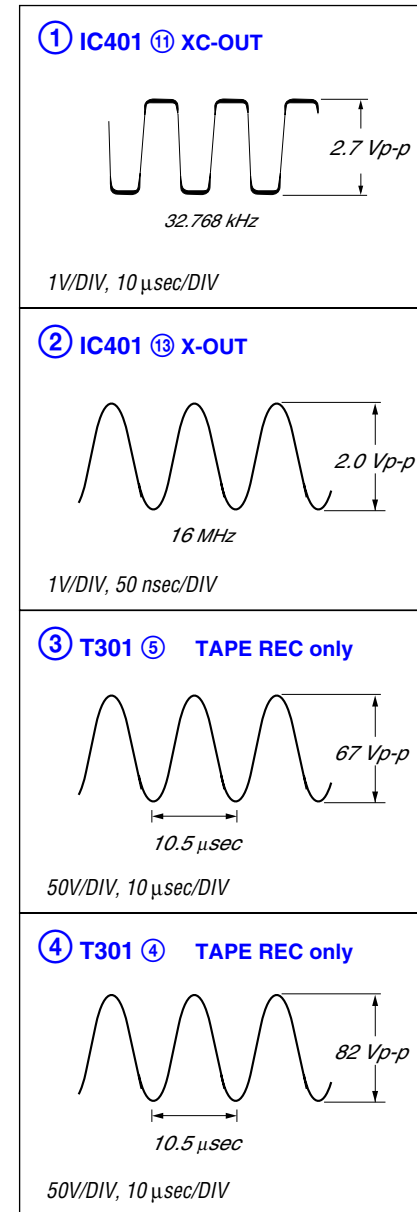
www.DataSheet4U.com

• WAVEFORMS

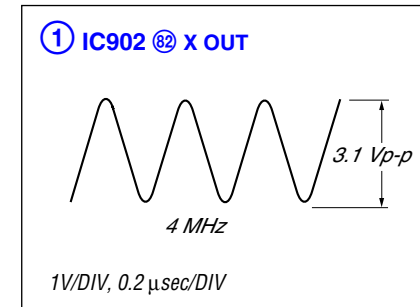
– CD BOARD –



– MAIN BOARD –



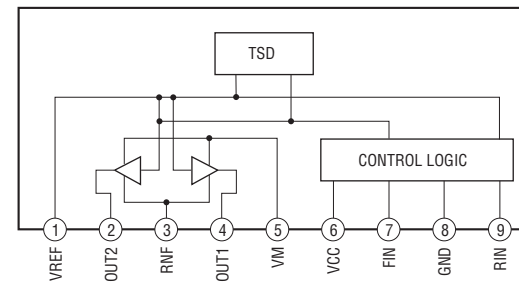
– PANEL BOARD –



• IC Block Diagram

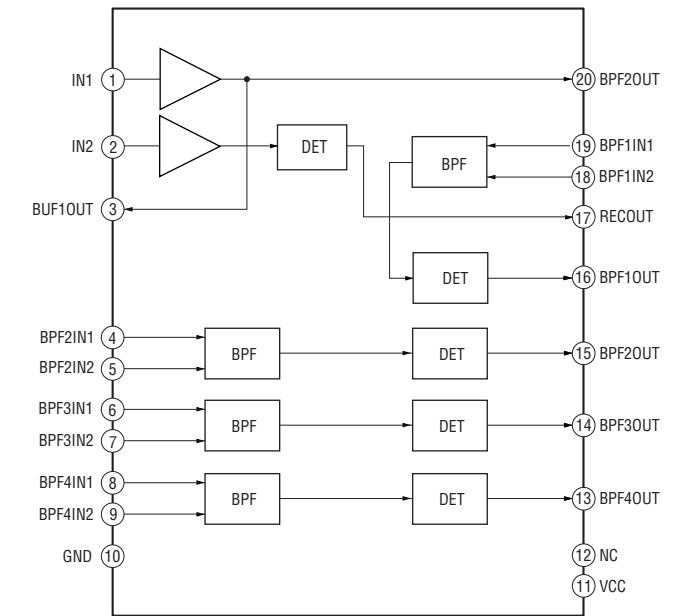
– DRIVER Board –

IC701, 712 BA6956AN



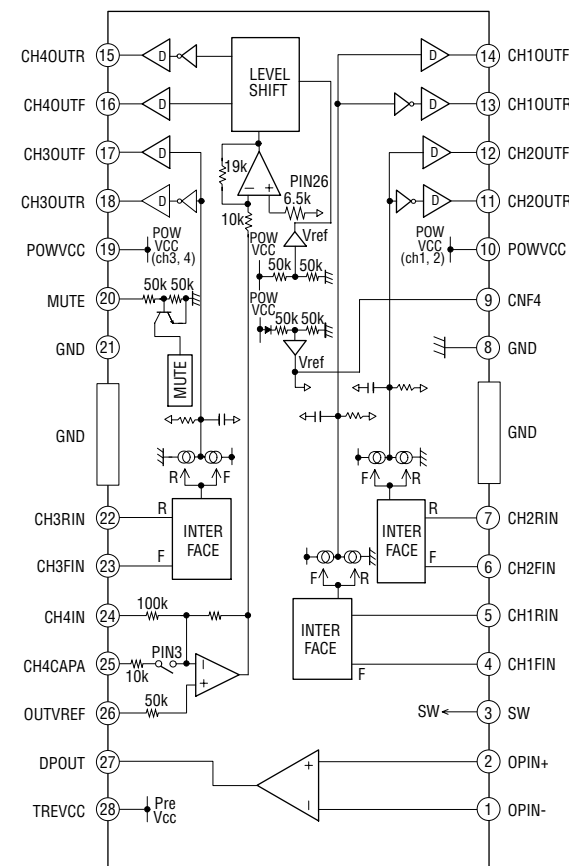
– PANEL Board –

IC904 NJM2760V-TE2



– CD Board –

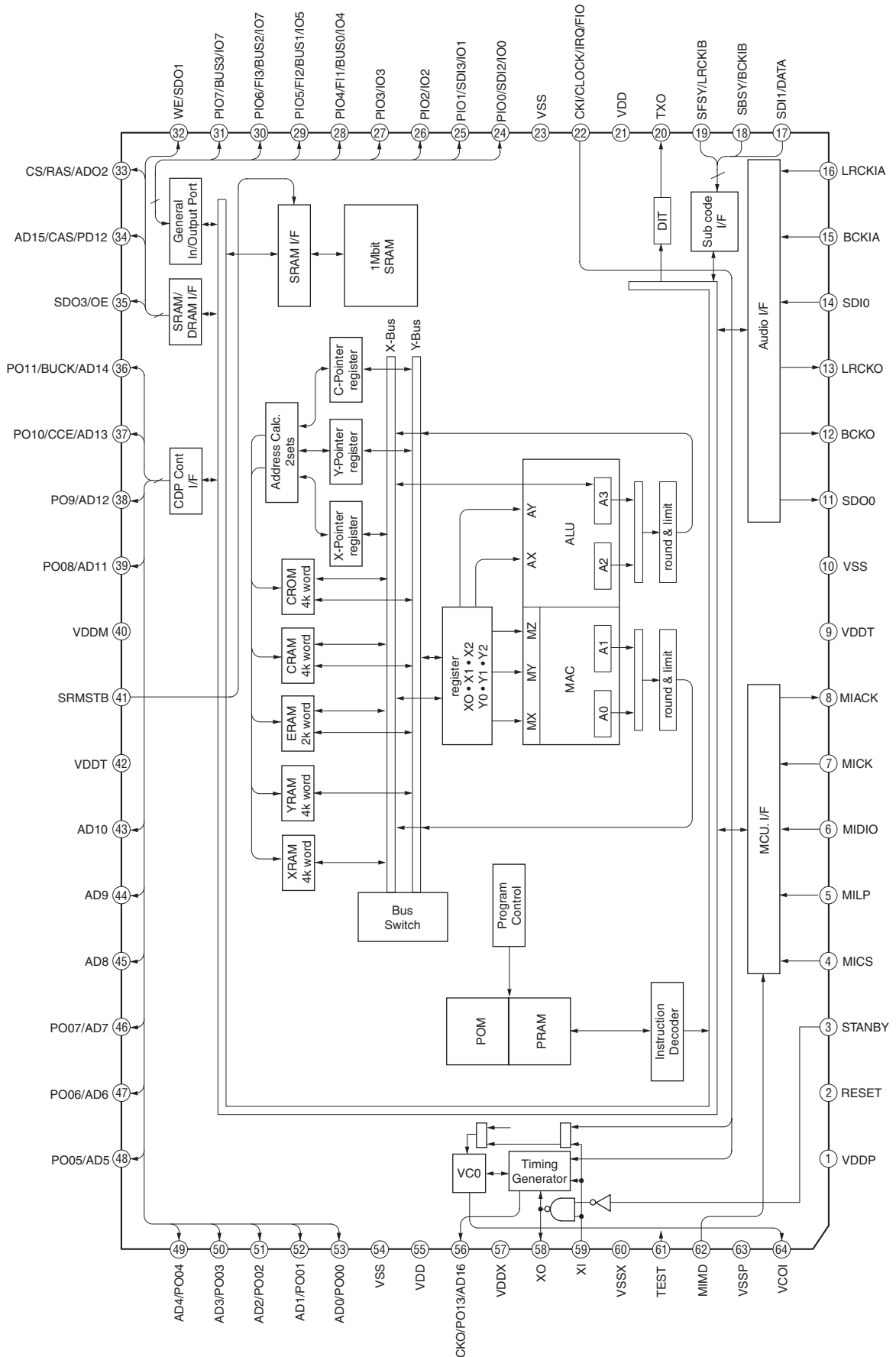
IC251 BA5947FM-E2



- CD Board -

IC301 TC94A34FG-002

www.DataSheet4U.com



7-23. IC Pin Function Descriptions

• IC101 CXD3059AR (RF AMP) (CD BOARD)

| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|---|
| 1 | MIRR | I/O | Not used (Open) |
| 2 | DFCT | I/O | Not used (Open) |
| 3 | FOK | I/O | Not used (Open) |
| 4 | VSS | — | Ground |
| 5 | LOCK | I/O | Not used (Open) |
| 6 | MDP | O | Spindle motor servo control output |
| 7 | SSTP | I | Disk innermost detection signal input |
| 8 | IOVSS1 | — | Ground |
| 9 | SFDR | O | Sled drive signal output |
| 10 | SRDR | O | Sled drive signal output |
| 11 | TFDR | O | Tracking drive signal output |
| 12 | TRDR | O | Tracking drive signal output |
| 13 | FFDR | O | Focus drive signal output |
| 14 | FRDR | O | Focus drive signal output |
| 15 | IOVDD1 | — | Power supply (+3.3V) |
| 16 | AVDD0 | — | Power supply (+3.3V) |
| 17 | AVSS0 | — | Ground |
| 18 | NC | — | Not used (Open) |
| 19 | E | I | E signal input |
| 20 | F | I | F signal input |
| 21 | TEI | I | Tracking error signal input |
| 22 | TEO | O | Tracking error signal output |
| 23 | FEI | I | Focus error signal input |
| 24 | FEO | O | Focus error signal output |
| 25 | VC | I/O | Center voltage output from RF amplifier block |
| 26 | A | I | A signal input |
| 27 | B | I | B signal input |
| 28 | C | I | C signal input |
| 29 | D | I | D signal input |
| 30 | NC | — | Not used (Open) |
| 31 | AVDD4 | — | Power supply (+3.3V) |
| 32 | RFDCO | O | RFDC signal output (Not used) |
| 33 | PDSSENS | I | Reference voltage pin |
| 34 | AC_SUM | O | RFAC summing amplifier output |
| 35 | EG_IN | I | Equalizer circuit input |
| 36 | LD | O | APC LD drive signal output |
| 37 | PD | I | APC PD signal input |
| 38 | NC | — | Not used (Open) |
| 39 | RFC | I | Equalizer cut-off frequency adjustment pin |
| 40 | AVSS4 | — | Ground |
| 41 | RFACO | O | RFAC signal output |
| 42 | RFACI | I | RFAC signal input or EFM signal input |
| 43 | AVDD3 | — | Power supply (+3.3V) |
| 44 | BIAS | I | Asymmetry circuit constant current input |
| 45 | ASYI | I | Asymmetry comparator voltage input |
| 46 | ASYO | O | EFM full-swing output |
| 47 | VPCO | O | Not used (Open) |
| 48 | VCTL | I | Wide-band EFM PLL VCO2 control voltage input |

| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|--|
| 49 | AVSS3 | — | Ground |
| 50 | CLTV | I | Multiplier VCO1 control voltage input |
| 51 | FILO | O | Master PLL (slave = digital PLL) filter output |
| 52 | FILI | I | Master PLL filter input |
| 53 | PCO | O | Master PLL charge pump output |
| 54 | AVDD5 | — | Power supply (+3.3V) |
| 55 | DDVROUT | O | DC/DC converter output (+2.5V) |
| 56 | DDVRSEN | I | DC/DC converter output voltage monitor input |
| 57 | AVSS5 | — | Ground |
| 58 | DDCR | I | DC/DC converter reset input |
| 59 | NC | — | Not used (Open) |
| 60 | BCKI | I | D/A interface bit clock input |
| 61 | PCMDI | I | D/A interface serial data input |
| 62 | LRCKI | I | D/A interface LR clock input |
| 63 | LRCK | O | D/A interface LR clock output $f = F_s$ |
| 64 | VSS | — | Ground |
| 65 | PCMD | O | D/A interface serial data output |
| 66 | BCK | O | D/A interface bit clock output |
| 67 | VDD | — | Power supply (+2.5V) |
| 68 | EMPH | O | High when the playback disc has emphasis, low it has not |
| 69 | EMPHI | I | High when de-emphasis is ON, low when input OFF |
| 70 | IOVDD2 | — | Power supply (+3.3V) |
| 71 | DOUT | O | Digital Out output |
| 72 | TEST | I | Test pin (Connected ground) |
| 73 | TEST1 | I | Test pin (Connected ground) |
| 74 | IOVSS2 | — | Ground |
| 75 | NC | — | Not used (Open) |
| 76 | XVSS | — | Ground |
| 77 | XTAO | O | Crystal oscillation circuit output |
| 78 | XTAI | I | Crystal oscillation circuit input |
| 79 | XVDD | — | Power supply (+2.5V) |
| 80 | AVDD1 | — | Power supply (+3.3V) |
| 81 | AOUT1 | O | L-ch analog output |
| 82 | VREFL | O | L-ch reference voltage |
| 83 | AVSS1 | — | Ground |
| 84 | AVSS2 | — | Ground |
| 85 | VREFR | O | R-ch reference voltage |
| 86 | AOUT2 | O | R-ch analog output |
| 87 | AVDD2 | — | Power supply (+3.3V) |
| 88 | NC | — | Not used (Open) |
| 89 | IOVDD0 | — | Power supply (+3.3V) |
| 90 | RMUT | O | Not used (Open) |
| 91 | LMUT | O | Not used (Open) |
| 92 | NC | — | Not used (Open) |
| 93 | XTSL | I | Crystal selection input (Pull down) |
| 94 | IOVSS0 | — | Ground |
| 95 | XTACN | I | Oscillation circuit control (H:Self-oscillation, L:oscillation stop) |
| 96 | SQSO | O | Not used (Open) |
| 97 | SQCK | I | SQSO readout clock input (Connected to +VDD(+3.3v)) |
| 98 | SBSO | O | Not used (Open) |

HCD-GNX60/GNX70/GX9900

| Pin No. | Pin Name | I/O | Description |
|---------|----------|-----|---|
| 99 | EXCK | I | Not used (Open) |
| 100 | XRST | I | System reset input from M30622MEP |
| 101 | SYSM | I | Mute input (Connected to ground) |
| 102 | DATA | I | Serial data input from M30622MEP |
| 103 | VSS | — | ground |
| 104 | XLAT | I | Latch input from M30622MEP |
| 105 | CLOCK | I | Serial data transfer clock input from M30622MEP |
| 106 | VDD | — | Power supply (+2.5V) |
| 107 | SENS | O | SENS output to M30622MEP |
| 108 | SCLK | I | SENS serial data readout clock input (Connected to +VDD(+3.3v)) |
| 109 | ATSK | I/O | Not used (Open) |
| 110 | WFCK | O | Not used (Open) |
| 111 | XUGF | O | Not used (Open) |
| 112 | XPCK | O | Not used (Open) |
| 113 | GFS | O | Not used (Open) |
| 114 | C2PO | O | Not used (Open) |
| 115 | SCOR | O | High output when the sub code sync, S0 or S1, is detected |
| 116 | VDD | — | Power supply (+2.5V) |
| 117 | C4M | O | Not used (Open) |
| 118 | WDCK | O | Not used (Open) |
| 119 | COUT | I/O | Not used (Open) |
| 120 | NC | — | Not used (Open) |

• IC401 M30622MEP-A02FPUO SYSTEM CONTROL (MAIN Board)

| Pin No. | Pin Name | I/O | Description |
|---------|--------------|-----|---|
| 1 | XRST | O | Reset signal output to CXD3053AR |
| 2 | CD-DATA | O | Serial data output to CXD3053AR |
| 3 | XLAT | O | Serial data latch signal output to CXD3053AR |
| 4 | SIRCS | I | Remote control signal input |
| 5 | MP3 DATA OUT | O | Serial data output to TC94A34FG |
| 6 | MP3 DATA IN | I | Serial data input from TC94A34FG |
| 7 | MP3 CLK | O | Serial data transfer clock output to TC94A34FG |
| 8 | BYTE | I | Not used (Connected to ground) |
| 9 | CNVSS | — | Ground at test (Pull down) |
| 10 | XC-IN | I | Sub system clock input (32.768KHz) |
| 11 | XC-OUT | O | Sub system clock output (32.768KHz) |
| 12 | RESET | I | System reset input |
| 13 | X-OUT | O | Main system clock output (16MHz) |
| 14 | VSS | — | Ground |
| 15 | X-IN | I | Main system clock input (16MHz) |
| 16 | VCC | — | Power supply (+5V) |
| 17 | NMI | I | Not used (Pull up with resistor) |
| 18 | CD-CLK | O | CD data clock output |
| 19 | SCOR | I | Sub code sync (S0+S1) detection signal input |
| 20 | AC-CUT | I | AC off detection signal input |
| 21 | SENS | I | Internal status detection monitor input from CXD3059AR |
| 22 | MP3 RST | O | Reset signal output to TC94A34FG |
| 23 | MP3 CS | O | Chip select signal output to TC94A34FG |
| 24 | MP3 LP | O | Latch pulse output to TC94A34FG |
| 25 | MP3 ACK | I | Acknowledge signal input from TC94A34FG |
| 26 | MP3 REQ | I | Request signal input to TC94A34FG |
| 27 | MP3 STB | O | Standby mode signal output to TC94A34FG |
| 28 | XTCN | O | Oscillation on/off control signal output to CXD3053AR |
| 29 | IIC-CLK | I/O | IIC bus serial clock input/output |
| 30 | IIC-DATA | I/O | IIC bus serial data input/output |
| 31 | VMUTE | O | CDG video signal muting on/off control signal output |
| 32 | CD POWER | O | Not used (Open) |
| 33 | CDG DET | I | Not used (Open) |
| 34 | CDG/BGC | O | Not used (Open) |
| 35 | CDG RST | O | Not used (Open) |
| 36 | FAN KICK-OFF | O | Fan kick off pulse to start up fan rotation signal output |
| 37 | CD MUTE | O | CD muting on/off control signal output |
| 38 | OPEN SW | I | Eject detection signal input |
| 39 | TBL-SENS | I | Disc tray position detection signal input |
| 40 | E-3 | I | Disc tray status detection signal input |
| 41 | E-2 | I | Disc tray status detection signal input |
| 42 | E-1 | I | Disc tray status detection signal input |
| 43 | TM-F | O | Table motor control signal output |
| 44 | TM-R | O | Table motor control signal output |
| 45 | LMF | O | Table loading motor control signal output |
| 46 | LMR | O | Table loading motor control signal output |
| 47 | A-PLAY | I | Deck A playback detection signal input |
| 48 | A-HALF | I | Deck A cassette detection signal input |
| 49 | SW LED1 | O | Not used (Open) |

HCD-GNX60/GNX70/GX9900

| Pin No. | Pin Name | I/O | Description |
|---------|-------------------|-----|--|
| 50 | SW LED2 | O | Not used (Open) |
| 51 | B-PLAY | I | Deck B playback detection signal input |
| 52 | THERMAL VACS | I | Thermal VACS detection input |
| 53 | A-TRIG | O | Deck A side trigger plunger drive signal output |
| 54 | CAPM-CONT | O | Capstan motor drive signal output |
| 55 | B-TRIG | O | Deck B side trigger plunger drive signal output |
| 56 | REC BIAS | O | Recording bias on/off control signal output |
| 57 | TC-RELAY | O | Recording/playback selection signal output |
| 58 | ALC | O | Automatic limiter control signal output |
| 59 | PB-AB | O | Deck A/B playback selection signal output |
| 60 | AMS-IN | I | Not used. |
| 61 | UNDER VOLTAGE DET | I | Under-voltage protection detection input |
| 62 | VCC | — | Power supply(+3.3V) |
| 63 | OVER VOLTAGE | I | Over-voltage protection detection input |
| 64 | VSS | — | Ground |
| 65 | TC MUTE | O | Tape playback muting on/off signal output |
| 66 | LINE MUTE | O | Line muting on/off signal output |
| 67 | REC MUTE | O | Recording muting on/off signal output |
| 68 | SW RY | O | Not used (Open) |
| 69 | STBY-RLY | O | Main power on/off signal output |
| 70 | PROT | I | Speaker protect detection signal input |
| 71 | GC-RESET | O | GC reset signal output |
| 72 | STBY-LED/FAN CTRL | O | POWER indicator LED drive signal output |
| 73 | DISPLAY-KEY | I | DISPLAY key press detection Interrupt signal input |
| 74 | POWER-KEY | I | POWER key press detection Interrupt signal input |
| 75 | HP-MUTE | O | Headphone muting on/off signal output |
| 76 | FR RELAY | O | front speakers relay drive signal output |
| 77 | LINK/SURR-RLY | O | Surround speaker mode control signal output |
| 78 | STK-MUTE | O | Power amplifier and sub woofer amplifier on/off control signal output |
| 79 | M61530-DATA | O | Not used (Open) |
| 80 | M61530-CLK | O | Not used (Open) |
| 81 | M61529-DATA | O | Serial data output to M61529FP |
| 82 | M61529-CLK | O | Serial transfer clock signal output to M61529FP |
| 83 | SW ON LED | O | Not used (Open) |
| 84 | ST-CE | O | PLL chip enable signal output to the tuner unit |
| 85 | MC DIN (ST) | O | PLL serial data output to the tuner unit |
| 86 | ST-CLK | I | PLL serial transfer clock signal output to the tuner unit |
| 87 | MC DOUT (ST) | I | PLL serial data input from the tuner unit |
| 88 | TUNED | I | Tuning detection signal input from the tuner unit |
| 89 | A SHUT | I | Shut off detection signal input from deck A side reel pulse detector |
| 90 | B SHUT | I | Shut off detection signal input from deck A side reel pulse detector |
| 91 | SW AD KEY | I | Not used (pull up) |
| 92 | MODEL-IN | I | Model input |
| 93 | DEST-IN | I | Destination input |
| 94 | B-HALF | I | Deck B cassette , forward side recording tab and reverse side recording tab detection signal input |
| 95 | SW VOL IN | I | Subwoofer on/off signal input |
| 96 | AVSS | — | Ground |
| 97 | BPF DET | I | Low frequency signal input from NJM2760 for RANDOM mode |
| 98 | VREF | I | A/D reference voltage input |
| 99 | AVCC | — | Power supply (+3.3V) |
| 100 | HP DET | I | Headphone connection detection signal input |

• IC902 MB90M407PF-G-144E1 DISPLAY CONTROL (PANEL Board)

| Pin No. | Pin Name | I/O | Description |
|-----------|------------------|-----|-----------------------------------|
| 1 to 8 | G8 to G1 | O | FLD grid signal output |
| 9, 10 | P1,P2 | O | FLD segment signal output |
| 11 | VSS-IO | — | Ground |
| 12 to 22 | P3 to P13 | O | FLD segment signal output |
| 23 | VDD-FIP | — | Power supply (+3.3V) |
| 24 to 41 | P14 to P31 | O | FLD segment signal output |
| 42 | VSS-IO | — | Ground |
| 43 to 47 | P32 to P36 | O | FLD segment signal output |
| 48 | VKK | — | Power supply (-35V) |
| 49 | MD0 | I | MD0 signal at test |
| 50 | MD1/VDD-VFT | I | Not used (pull up) |
| 51 | MD2 | I | Not used (pull down) |
| 52 | LED CD/DVD | O | LED drive signal output |
| 53 | LED TUNER | O | LED drive signal output |
| 54 | LED TAPE | O | LED drive signal output |
| 55 | LED VIDEO | O | LED drive signal output |
| 56 | LED STOP,PAUSE | O | LED drive signal output |
| 57 | LED VOLUME 2,3 | O | LED drive signal output |
| 58 | LED VOLUME 4,5 | O | LED drive signal output |
| 59 | LED VOLUME 6,1 | O | LED drive signal output |
| 60 | IIC DATA | I/O | IIC bus serial data input/output |
| 61 | IIC CLK | I/O | IIC bus serial clock input/output |
| 62 | AVCC | — | Power supply (+3.3V) |
| 63 | AVSS | — | Ground |
| 64 to 66 | KEY0 to KEY2 | I | Key input (A/D) |
| 67 | ALL BAND | I | Audio L+R signal input |
| 68 to 71 | BPF4 to BPF1 | I | Spectrum analyzer signal input |
| 72 | LED VIDEO/MD | O | LED drive signal output |
| 73 | X-ROUND JOG | O | X-ROUND JOG encoder signal input |
| 74 | VOLUME | I | Volume encoder signal input |
| 75 | OPERATION DIAL | I | JOG dial encoder signal input |
| 76 | AMS | I | AMS dial signal input |
| 77 | RESET | I | Reset input |
| 78 | LED AMS+/-,FF/FW | O | LED drive signal output |
| 79 | LED PLAY | O | LED drive signal output |
| 80 | SELECTOR | O | LED group select signal output |
| 81 | VSS-CPU | — | Ground |
| 82 | XOUT | O | Crystal oscillator output (4MHz) |
| 83 | XIN | I | Crystal oscillator input (4MHz) |
| 84 | VCC-CPU | — | Power supply (+3.3V) |
| 85 to 100 | G24 to G9 | O | FLD grid signal output |

SECTION 8 EXPLODED VIEWS

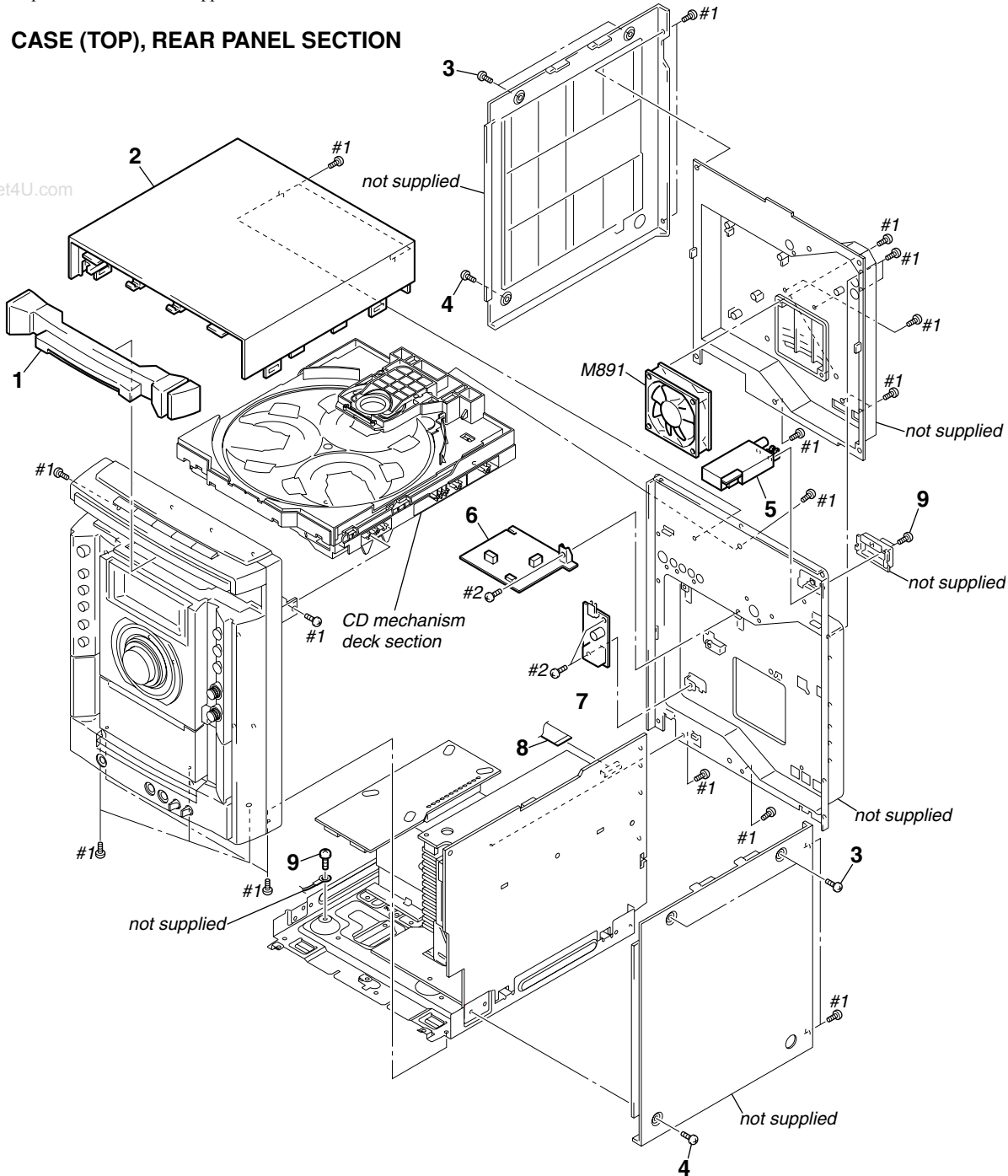
NOTE:

- -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 are given in the last of this parts list.
- Abbreviation
 AR : Argentine model
 AUS : Australian model
 E2 : 120V AC Area in E model
 E3 : 240V AC Area in E model
 E51 : Chilean and Peruvian model

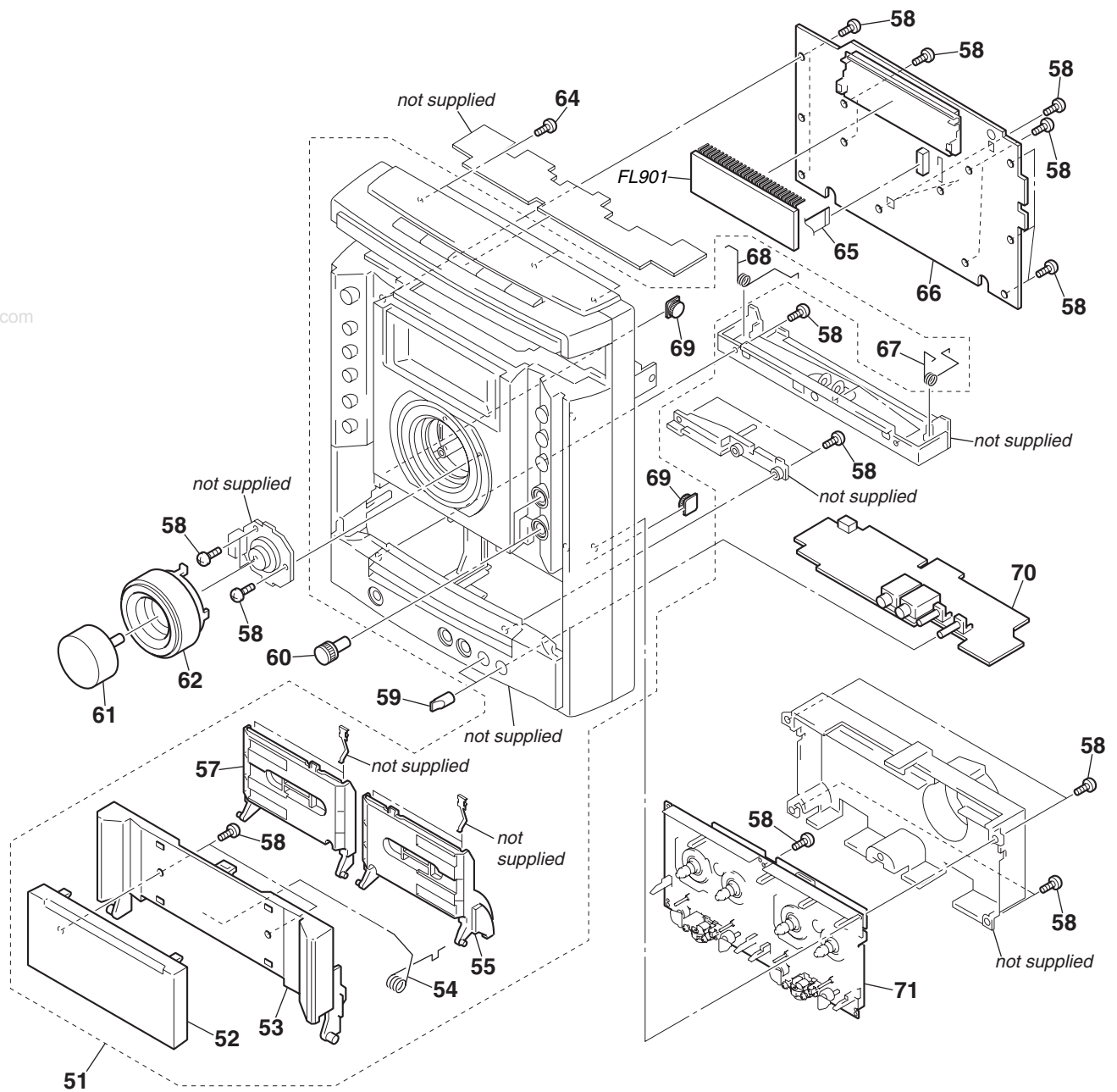
The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

8-1. CASE (TOP), REAR PANEL SECTION



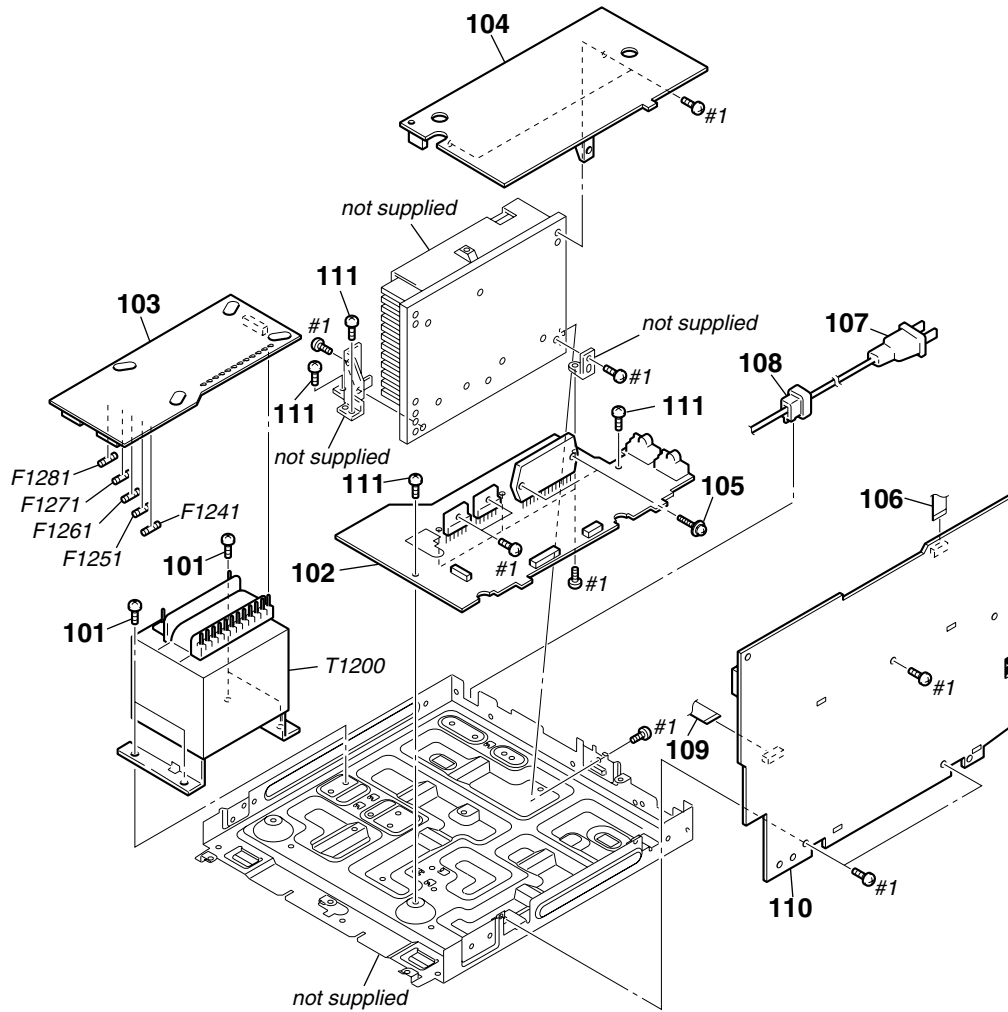
| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|---|---------|------------|--------------|---------------------------------------|---------|
| 1 | X-2025-402-1 | LOADING PANEL ASSY (GNX60: E2, E51, AR) | | 5 | 1-693-672-11 | TUNER (TM-10U) (GX9900) | |
| 1 | X-2025-404-1 | LOADING PANEL ASSY (GNX70: E2, E51) | | 6 | A-1089-510-A | PRIMARY BOARD, COMPLETE (E2, E3, E51) | |
| 1 | X-2025-406-1 | LOADING PANEL ASSY (GX9900) | | 6 | A-1089-525-A | PRIMARY BOARD, COMPLETE (US, AUS) | |
| 1 | X-2050-804-1 | LOADING PANEL ASSY (GNX60: E3, AUS) | | 6 | A-1113-478-A | PRIMARY BOARD, COMPLETE (AR) | |
| 1 | X-2050-805-1 | LOADING PANEL ASSY (GNX70: E3, AUS) | | Δ 7 | 1-468-737-51 | POWER, SWITCHING | |
| 2 | 2-342-117-01 | CASE (TOP) (GNX60/GNX70) | | 8 | 1-824-048-12 | WIRE (FLAT TYPE) (27 CORE) | |
| 2 | 2-342-117-21 | CASE (TOP) (GX9900) | | 9 | 3-077-331-21 | +BV3 (3-CR) | |
| 3 | 3-363-099-32 | SCREW (CASE 3 TP2) | | M891 | 1-763-372-11 | FAN, DC | |
| 4 | 3-363-099-02 | SCREW (CASE 3 TP2) | | #1 | 7-685-647-79 | SCREW +BVTP 3X10 TYPE2 IT-3 | |
| 5 | 1-693-671-11 | TUNER (TM-10E) (GNX60/GNX70) | | #2 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 IT-3 | |

8-2. FRONT PANEL SECTION



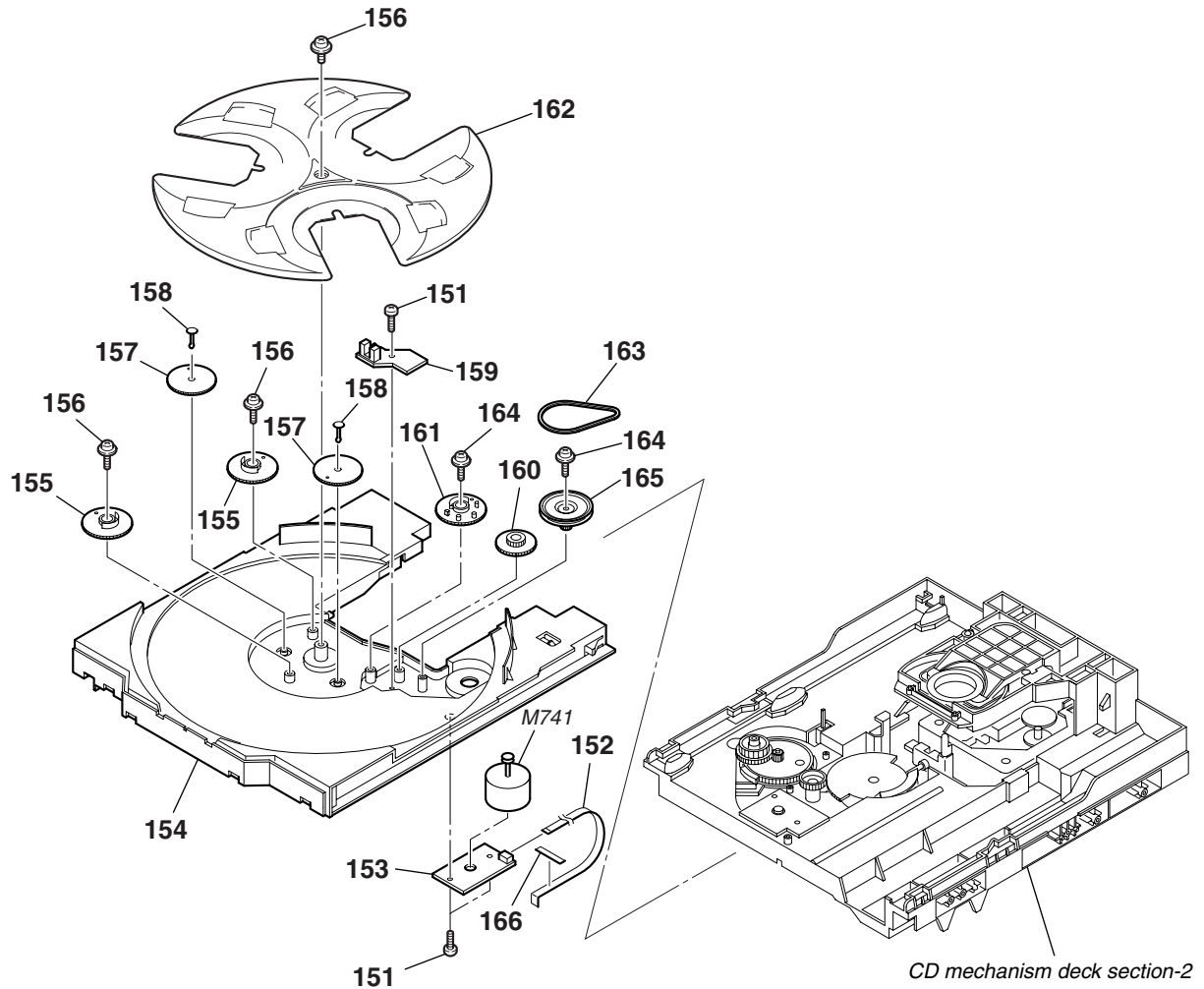
| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|---------------------------|---------|----------|--------------|-----------------------------|---------|
| 51 | X-2025-397-1 | FRONT PANEL ASSY (GNX60) | | 61 | 4-252-575-01 | KNOB VOL | |
| 51 | X-2025-399-1 | FRONT PANEL ASSY (GNX70) | | 62 | X-2025-430-1 | KNOB JOG ASSY | |
| 51 | X-2025-429-1 | FRONT PANEL ASSY (GX9900) | | 64 | 3-077-331-21 | +BV3 (3-CR) | |
| 52 | 2-342-128-01 | ESCUTHEON (LID) | | 65 | 1-828-992-11 | WIRE (FLAT TYPE) (17 CORE) | |
| 53 | 2-342-108-01 | LID (TC) | | 66 | A-1089-463-A | PANEL BOARD, COMPLETE | |
| 54 | 2-342-134-01 | SPRING (LID) | | 67 | 2-342-136-01 | SPRING (R) | |
| 55 | 2-342-111-01 | HOLDER (TC-R) | | 68 | 2-342-135-01 | SPRING (L) | |
| 57 | 2-342-110-01 | HOLDER (TC-L) | | 69 | 4-224-104-11 | DAMPER | |
| 58 | 3-087-053-01 | +BVTP2.6 (3CR) | | 70 | A-1089-466-A | MIC BOARD, COMPLETE | |
| 59 | 4-224-578-21 | KNOB (MIC) | | 71 | 1-797-165-11 | DECK, MECHANICAL (CMAT5Z2) | |
| 60 | 2-342-104-01 | KNOB (AMS) | | FL901 | 1-519-794-21 | VACUUM FLUORESCENT DISPLAYS | |

8-3. CHASSIS SECTION



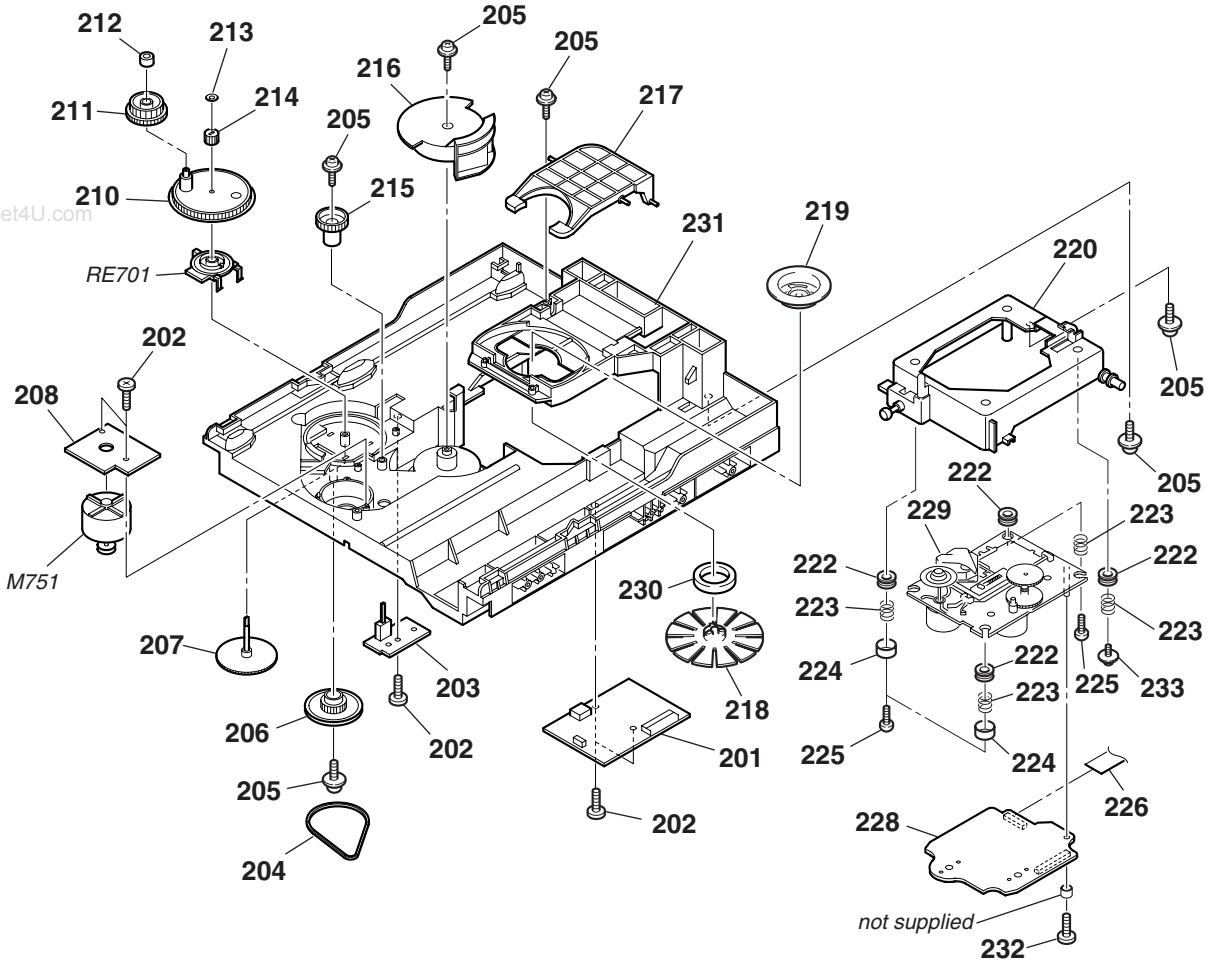
| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|---|---------|----------|--------------|--|---------------|
| 101 | 4-900-386-01 | SCREW | | 110 | A-1105-026-A | MAIN BOARD, COMPLETE (GNX70: E3) | |
| 102 | A-1089-504-A | PA BOARD, COMPLETE (GNX60: E3, AUS) | | 110 | A-1105-027-A | MAIN BOARD, COMPLETE (GNX70: E51) | |
| 102 | A-1089-530-A | PA BOARD, COMPLETE (GNX70: E3, AUS) | | 110 | A-1105-028-A | MAIN BOARD, COMPLETE (GNX70: AUS) | |
| 102 | A-1089-586-A | PA BOARD, COMPLETE (GX9900) | | 111 | 3-077-331-21 | +BV3 (3-CR) | |
| 102 | A-1110-893-A | PA BOARD, COMPLETE (GNX60: E2, E51, AR) | | △ F1241 | 1-576-537-12 | FUSE, GLASS TUBE (DIA.5) (T8AL/125V) | (GX9900) |
| 102 | A-1110-912-A | PA BOARD, COMPLETE (GNX70: E2, E51) | | △ F1241 | 1-576-655-12 | FUSE, GLASS TUBE (DIA. 5) (T8AL/250V) | (GNX60/GNX70) |
| 103 | A-1089-507-A | TRANS BOARD, COMPLETE (GNX60/GNX70) | | △ F1251 | 1-576-537-12 | FUSE, GLASS TUBE (DIA.5) (T8AL/125V) | (GX9900) |
| 103 | A-1089-588-A | TRANS BOARD, COMPLETE (GX9900) | | △ F1251 | 1-576-655-12 | FUSE, GLASS TUBE (DIA. 5) (T8AL/250V) | (GNX60/GNX70) |
| 104 | A-1089-321-A | SURROUND BOARD, COMPLETE | | △ F1251 | 1-576-655-12 | FUSE, GLASS TUBE (DIA. 5) (T8AL/250V) | (GNX60/GNX70) |
| 105 | 3-905-609-31 | SCREW (TRANSISTOR) | | △ F1261 | 1-576-537-12 | FUSE, GLASS TUBE (DIA.5) (T8AL/125V) | (GX9900) |
| 106 | 1-828-956-11 | WIRE (FLAT TYPE) (9 CORE) | | △ F1261 | 1-576-655-12 | FUSE, GLASS TUBE (DIA. 5) (T8AL/250V) | (GNX60/GNX70) |
| △ 107 | 1-777-071-53 | CORD, POWER (E51) | | △ F1261 | 1-576-655-12 | FUSE, GLASS TUBE (DIA. 5) (T8AL/250V) | (GNX60/GNX70) |
| △ 107 | 1-783-820-11 | CORD, POWER (GX9900) | | △ F1271 | 1-576-537-12 | FUSE, GLASS TUBE (DIA.5) (T8AL/125V) | (GX9900) |
| △ 107 | 1-783-941-12 | CORD, POWER (AR) | | △ F1271 | 1-576-655-12 | FUSE, GLASS TUBE (DIA. 5) (T8AL/250V) | (GNX60/GNX70) |
| △ 107 | 1-827-295-22 | CORD, POWER (AUS) | | △ F1271 | 1-576-655-12 | FUSE, GLASS TUBE (DIA. 5) (T8AL/250V) | (GNX60/GNX70) |
| △ 107 | 1-829-627-31 | POWER-SUPPLY CORD (E2, E3) | | △ F1281 | 1-533-451-12 | FUSE, GLASS TUBE (DIA. 5) (T3.15AL/125V) | (GX9900) |
| * 108 | 3-703-244-00 | BUSHING (2104), CORD (US, E51, AR, AUS) | | △ F1281 | 1-533-470-12 | FUSE, GLASS TUBE (DIA. 5) (T3.15AL/250V) | (GNX60/GNX70) |
| 108 | 3-703-571-11 | BUSHING (S) (4516), CORD (E2, E3) | | △ T1200 | 1-443-542-11 | POWER TRANSFORMER (GNX60) | |
| 109 | 1-828-972-11 | WIRE (FLAT TYPE) (13 CORE) | | △ T1200 | 1-443-543-11 | POWER TRANSFORMER (GNX70) | |
| 110 | A-1089-297-A | MAIN BOARD, COMPLETE (GNX60: E2) | | △ T1200 | 1-443-544-11 | POWER TRANSFORMER (GX9900) | |
| 110 | A-1089-299-A | MAIN BOARD, COMPLETE (GNX70: E2) | | #1 | 7-685-647-79 | SCREW +BVTP 3X10 TYPE2 IT-3 | |
| 110 | A-1089-301-A | MAIN BOARD, COMPLETE (GX9900) | | | | | |
| 110 | A-1105-022-A | MAIN BOARD, COMPLETE (GNX60: E3) | | | | | |
| 110 | A-1105-023-A | MAIN BOARD, COMPLETE (GNX60: E51) | | | | | |
| 110 | A-1105-024-A | MAIN BOARD, COMPLETE (AR) | | | | | |
| 110 | A-1105-025-A | MAIN BOARD, COMPLETE (GNX60: AUS) | | | | | |

8-4. CD MECHANISM DECK SECTION-1
(CDM74-F1BD81)



| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|-------------------------------|---------|----------|--------------|-------------------------------|---------|
| 151 | 4-218-253-32 | SCREW (M2.6), +BTTP | | 160 | 4-243-820-01 | GEAR (TABLE) | |
| 152 | 1-776-182-11 | WIRE (FLAT TYPE) (5 CORE) | | 161 | 4-243-819-01 | GEAR (GENEVA) | |
| 153 | 1-687-134-12 | MOTOR (TB) BOARD | | 162 | 4-243-816-01 | TRAY | |
| 154 | 4-243-815-01 | TABLE (LOADING) | | 163 | 4-243-823-01 | BELT (TABLE) | |
| 155 | 4-245-571-02 | GEAR (STOPPER) | | 164 | 4-985-672-01 | SCREW (+PTPWH M2.6), FLOATING | |
| 156 | 4-218-252-61 | SCREW (+PTPWH M2.6), FLOATING | | 165 | 4-243-821-01 | PULLEY (TABLE) | |
| 157 | 4-245-570-01 | GEAR (JOINT) | | 166 | 3-231-598-01 | SHEET (BA) | |
| 158 | 4-245-572-01 | BUSHING (GEAR) | | M741 | A-4723-963-A | MOTOR ASSY, TABLE | |
| 159 | 1-687-132-12 | SENSOR BOARD | | | | | |

8-5. CD MECHANISM DECK SECTION-2
(CDM74-F1BD81)



| Ref. No. | Part No. | Description | Remarks |
|----------|--------------|-------------------------------|---------|
| 201 | 1-687-135-12 | DRIVER BOARD | |
| 202 | 4-218-253-52 | SCREW (M2.6), +BTTP | |
| 203 | 1-687-669-12 | SW BOARD | |
| 204 | 4-244-034-01 | BELT (LOADING) | |
| 205 | 4-218-252-52 | SCREW (+PTPWH M2.6), FLOATING | |
| 206 | 4-225-844-01 | GEAR (LOADING A) | |
| 207 | 4-224-613-01 | GEAR (SHAFT) | |
| 208 | 1-687-133-12 | MOTOR (LD) BOARD | |
| 210 | 4-244-108-01 | GEAR, SWING | |
| 211 | 4-224-609-01 | GEAR (LOADING C) | |
| 212 | 4-224-608-01 | COLLAR, SWING | |
| 213 | 3-016-533-01 | WASHER (FR), STOPPER | |
| 214 | 4-224-611-01 | GEAR (LOADING B) | |
| 215 | 4-224-606-01 | GEAR (RV) | |
| 216 | 4-243-818-01 | GEAR (U/D) | |
| 217 | 4-243-822-02 | LEVER (LIFTER) | |

| Ref. No. | Part No. | Description | Remarks |
|----------|--------------|---------------------------------|---------|
| 218 | X-4955-774-2 | PULLEY (SM) ASSY, CHUCKING | |
| 219 | 4-221-688-01 | PULLEY (B), CHUCKING | |
| 220 | X-4955-536-1 | HOLDER (213) ASSY | |
| 222 | 4-227-549-11 | INSULATOR | |
| 223 | 4-227-045-11 | SPRING (INSULATOR), COIL | |
| 224 | 4-231-151-01 | STOPPER (BU) | |
| 225 | 4-218-253-42 | SCREW (M2.6), +BTTP | |
| 226 | 1-827-992-11 | WIRE (FLAT TYPE) (16 CORE) | |
| 228 | A-4751-045-A | CD BOARD, COMPLETE | |
| △229 | 8-820-244-01 | OPTICAL PICK-UP KSM-215DCP/C2NP | |
| 230 | 1-471-035-11 | MAGNET ASSY | |
| 231 | 4-243-817-22 | CHASSIS | |
| 232 | 3-087-053-01 | +BVTP2.6 (3CR) | |
| 233 | 4-985-672-01 | SCREW (+PTPWH M2.6), FLOATING | |
| M751 | A-4737-553-A | MOTOR ASSY, LOADING | |
| RE701 | 1-477-680-12 | ENCODER, ROTARY | |

SECTION 9
ELECTRICAL PARTS LIST

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: μF
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable

- COILS
uH: μH
- SEMICONDUCTORS
In each case, u: μ, for example:
uA...: μA..., uPA..., μPA...,
uPB..., μPB..., uPC..., μPC...,
uPD..., μPD...
- Abbreviation
AR : Argentine model
AUS : Australian model
E2 : 120V AC Area in E model
E3 : 240V AC Area in E model
E51 : Chilean and Peruvian model

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

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

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|-----------------------------|----------|----------|--------------|------------------------------------|---------|
| | A-4751-045-A | CD BOARD, COMPLETE ***** | | C195 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| | | < CAPACITOR > | | C196 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| C10 | 1-165-989-11 | CERAMIC CHIP 10uF | 10% 6.3V | C201 | 1-128-995-21 | ELECT CHIP 100uF | 20% 10V |
| C11 | 1-165-989-11 | CERAMIC CHIP 10uF | 10% 6.3V | C203 | 1-128-995-21 | ELECT CHIP 100uF | 20% 10V |
| C14 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V | C209 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C15 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V | C210 | 1-107-826-11 | CERAMIC CHIP 0.1uF | 10% 16V |
| C16 | 1-115-156-11 | CERAMIC CHIP 1uF | 10V | C211 | 1-164-230-11 | CERAMIC CHIP 220PF | 5% 50V |
| C17 | 1-126-246-11 | ELECT CHIP 220uF | 20% 4V | C212 | 1-162-919-11 | CERAMIC CHIP 22PF | 5% 50V |
| C18 | 1-162-964-11 | CERAMIC CHIP 0.001uF | 10% 50V | C213 | 1-162-919-11 | CERAMIC CHIP 22PF | 5% 50V |
| C111 | 1-162-967-11 | CERAMIC CHIP 0.0033uF | 10% 50V | C251 | 1-162-969-11 | CERAMIC CHIP 0.0068uF | 10% 25V |
| C112 | 1-164-315-11 | CERAMIC CHIP 470PF | 5% 50V | C252 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| C113 | 1-162-967-11 | CERAMIC CHIP 0.0033uF | 10% 50V | C255 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| C114 | 1-164-315-11 | CERAMIC CHIP 470PF | 5% 50V | C257 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| C115 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V | C258 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| C116 | 1-128-995-21 | ELECT CHIP 100uF | 20% 10V | C259 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| C122 | 1-107-826-11 | CERAMIC CHIP 0.1uF | 10% 16V | C260 | 1-128-394-11 | ELECT CHIP 220uF | 20% 10V |
| C123 | 1-107-826-11 | CERAMIC CHIP 0.1uF | 10% 16V | C302 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| C124 | 1-162-959-11 | CERAMIC CHIP 330PF | 5% 50V | C303 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| C125 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V | C305 | 1-126-246-11 | ELECT CHIP 220uF | 20% 4V |
| C131 | 1-162-927-11 | CERAMIC CHIP 100PF | 5% 50V | C306 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| C132 | 1-117-863-11 | CERAMIC CHIP 0.47uF | 10% 6.3V | C307 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| C133 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V | C308 | 1-126-208-21 | ELECT CHIP 47uF | 20% 4V |
| C134 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V | C309 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| C141 | 1-107-826-11 | CERAMIC CHIP 0.1uF | 10% 16V | C310 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| C142 | 1-162-965-11 | CERAMIC CHIP 0.0015uF | 10% 50V | C311 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| C143 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V | C312 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| C151 | 1-128-995-21 | ELECT CHIP 100uF | 20% 10V | C313 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V |
| C161 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V | C314 | 1-126-208-21 | ELECT CHIP 47uF | 20% 4V |
| C162 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V | C315 | 1-107-826-11 | CERAMIC CHIP 0.1uF | 10% 16V |
| C163 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V | C316 | 1-162-966-11 | CERAMIC CHIP 0.0022uF | 10% 50V |
| C171 | 1-162-919-11 | CERAMIC CHIP 22PF | 5% 50V | C317 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C172 | 1-162-920-11 | CERAMIC CHIP 27PF | 5% 50V | C318 | 1-162-970-11 | CERAMIC CHIP 0.01uF | 10% 25V |
| C174 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V | C320 | 1-216-864-11 | SHORT CHIP 0 | |
| C181 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V | | | < CONNECTOR > | |
| C182 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V | CN101 | 1-770-425-51 | CONNECTOR, FFC/FPC 16P | |
| C183 | 1-124-778-00 | ELECT CHIP 22uF | 20% 6.3V | CN201 | 1-818-350-51 | CONNECTOR, FFC (LIF (NON-ZIF)) 27P | |
| C184 | 1-124-778-00 | ELECT CHIP 22uF | 20% 6.3V | | | < FERRITE BEAD > | |
| C185 | 1-164-315-11 | CERAMIC CHIP 470PF | 5% 50V | FB301 | 1-500-445-21 | FERRITE, EMI (SMD) (2012) | |
| C186 | 1-164-315-11 | CERAMIC CHIP 470PF | 5% 50V | | | | |
| C194 | 1-164-360-11 | CERAMIC CHIP 0.1uF | 16V | | | | |

HCD-GNX60/GNX70/GX9900

CD **CD-SW** **DRIVER**

| Ref. No. | Part No. | Description | Remarks |
|----------|--------------|---------------------------|----------|
| | | < IC > | |
| IC101 | 8-752-425-12 | IC CXD3059AR | |
| IC251 | 6-705-808-01 | IC BA5947FM-E2 | |
| IC301 | 6-705-365-01 | IC TC94A34FG-002 | |
| IC303 | 6-705-807-01 | IC BH15FB1WG | |
| | | < TRANSISTOR > | |
| Q10 | 6-551-120-01 | TRANSISTOR 2SA2119K | |
| | | < RESISTOR > | |
| R10 | 1-216-791-11 | METAL CHIP 3.3 | 5% 1/10W |
| R11 | 1-216-864-11 | SHORT CHIP 0 | |
| R12 | 1-216-845-11 | METAL CHIP 100K | 5% 1/10W |
| R13 | 1-218-446-11 | METAL CHIP 1 | 5% 1/10W |
| R111 | 1-216-821-11 | METAL CHIP 1K | 5% 1/10W |
| R112 | 1-216-835-11 | METAL CHIP 15K | 5% 1/10W |
| R113 | 1-216-821-11 | METAL CHIP 1K | 5% 1/10W |
| R114 | 1-216-835-11 | METAL CHIP 15K | 5% 1/10W |
| R121 | 1-216-835-11 | METAL CHIP 15K | 5% 1/10W |
| R131 | 1-216-857-11 | METAL CHIP 1M | 5% 1/10W |
| R132 | 1-216-833-11 | METAL CHIP 10K | 5% 1/10W |
| R133 | 1-216-848-11 | METAL CHIP 180K | 5% 1/10W |
| R141 | 1-216-829-11 | METAL CHIP 4.7K | 5% 1/10W |
| R142 | 1-216-821-11 | METAL CHIP 1K | 5% 1/10W |
| R143 | 1-216-827-11 | METAL CHIP 3.3K | 5% 1/10W |
| R151 | 1-216-864-11 | SHORT CHIP 0 | |
| R161 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R162 | 1-216-841-11 | METAL CHIP 47K | 5% 1/10W |
| R163 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R165 | 1-216-864-11 | SHORT CHIP 0 | |
| R171 | 1-216-817-11 | METAL CHIP 470 | 5% 1/10W |
| R172 | 1-216-857-11 | METAL CHIP 1M | 5% 1/10W |
| R173 | 1-216-295-91 | SHORT CHIP 0 | |
| R181 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R182 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R191 | 1-216-864-11 | SHORT CHIP 0 | |
| R201 | 1-500-445-21 | FERRITE, EMI (SMD) (2012) | |
| R203 | 1-216-864-11 | SHORT CHIP 0 | |
| R204 | 1-500-445-21 | FERRITE, EMI (SMD) (2012) | |
| R205 | 1-216-864-11 | SHORT CHIP 0 | |
| R251 | 1-216-833-11 | METAL CHIP 10K | 5% 1/10W |
| R252 | 1-216-837-11 | METAL CHIP 22K | 5% 1/10W |
| R253 | 1-216-833-11 | METAL CHIP 10K | 5% 1/10W |
| R301 | 1-216-845-11 | METAL CHIP 100K | 5% 1/10W |
| R302 | 1-216-833-11 | METAL CHIP 10K | 5% 1/10W |
| R303 | 1-216-845-11 | METAL CHIP 100K | 5% 1/10W |
| R305 | 1-216-845-11 | METAL CHIP 100K | 5% 1/10W |
| R306 | 1-216-864-11 | SHORT CHIP 0 | |
| R307 | 1-216-833-11 | METAL CHIP 10K | 5% 1/10W |
| R313 | 1-216-813-11 | METAL CHIP 220 | 5% 1/10W |
| R351 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R352 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R353 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R354 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R401 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R402 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R403 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |

| Ref. No. | Part No. | Description | Remarks |
|----------|--------------|--|----------|
| R404 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R405 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R406 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R407 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R408 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R409 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R410 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R411 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R412 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R419 | 1-216-809-11 | METAL CHIP 100 | 5% 1/10W |
| R502 | 1-216-864-11 | SHORT CHIP 0 | |
| | | < SWITCH > | |
| S101 | 1-771-853-11 | SWITCH DETECTION (LIMIT) | |
| | | < VIBRATOR > | |
| X171 | 1-767-408-21 | VIBRATOR, CRYSTAL (16.9MHz) | |
| ***** | | | |
| | | CD-SW BOARD | |
| | | ***** | |
| | | < RESISTOR > | |
| R1169 | 1-216-817-11 | METAL CHIP 470 | 5% 1/10W |
| R1171 | 1-216-823-11 | METAL CHIP 1.5K | 5% 1/10W |
| R1172 | 1-216-823-11 | METAL CHIP 1.5K | 5% 1/10W |
| R1173 | 1-216-821-11 | METAL CHIP 1K | 5% 1/10W |
| R1174 | 1-216-819-11 | METAL CHIP 680 | 5% 1/10W |
| | | < SWITCH > | |
| S1156 | 1-762-875-21 | SWITCH, KEYBOARD (DISC 1) | |
| S1157 | 1-762-875-21 | SWITCH, KEYBOARD (DISC 2) | |
| S1158 | 1-762-875-21 | SWITCH, KEYBOARD (DISC 3) | |
| S1159 | 1-762-875-21 | SWITCH, KEYBOARD (EX-CHANGE/DISC SKIP) | |
| S1160 | 1-762-875-21 | SWITCH, KEYBOARD (▲ OPEN/CLOSE) | |
| ***** | | | |
| | | 1-687-135-12 DRIVER BOARD | |
| | | ***** | |
| | | < CAPACITOR > | |
| C715 | 1-126-933-11 | ELECT 100uF | 20% 16V |
| C731 | 1-126-964-11 | ELECT 10uF | 20% 50V |
| C735 | 1-164-159-11 | CERAMIC 0.1uF | 50V |
| C736 | 1-164-159-11 | CERAMIC 0.1uF | 50V |
| C737 | 1-164-159-11 | CERAMIC 0.1uF | 50V |
| C741 | 1-162-306-11 | CERAMIC 0.01uF | 20% 16V |
| C751 | 1-162-306-11 | CERAMIC 0.01uF | 20% 16V |
| C752 | 1-164-159-11 | CERAMIC 0.1uF | 50V |
| | | < CONNECTOR > | |
| CN701 | 1-785-338-11 | PIN, CONNECTOR (LIGHT ANGLE) 12P | |
| CN702 | 1-784-766-11 | CONNECTOR, FFC 5P | |
| * CN703 | 1-564-720-11 | PIN, CONNECTOR (SMALL TYPE) 4P | |
| CN704 | 1-785-328-11 | PIN, CONNECTOR (LIGHT ANGRE) 2P | |
| | | < DIODE > | |
| D701 | 8-719-947-16 | DIODE MTZJ-T-72-5.1A | |
| D711 | 8-719-983-66 | DIODE MTZJ-T-72-3.6B | |

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|------------------------------|---------|--------------|-----------------------------------|-----------------------------------|---------|
| | | < IC > | | | | | |
| IC701 | 8-759-598-69 | IC BA6956AN | | R1146 | 1-216-820-11 | METAL CHIP 820 5% | 1/10W |
| IC712 | 8-759-598-69 | IC BA6956AN | | R1156 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| | | < TRANSISTOR > | | R1157 | 1-216-820-11 | METAL CHIP 820 5% | 1/10W |
| Q731 | 8-729-029-66 | TRANSISTOR DTC114ESA | | R1158 | 1-216-820-11 | METAL CHIP 820 5% | 1/10W |
| | | < RESISTOR > | | R1159 | 1-216-820-11 | METAL CHIP 820 5% | 1/10W |
| R701 | 1-249-413-11 | CARBON 470 5% | 1/4W | R1190 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| R702 | 1-247-807-31 | CARBON 100 5% | 1/4W | R1191 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| R711 | 1-247-831-91 | CARBON 1K 5% | 1/4W | R1192 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| R712 | 1-247-847-91 | CARBON 4.7K 5% | 1/4W | | | < SWITCH > | |
| R713 | 1-247-863-91 | CARBON 22K 5% | 1/4W | S1161 | 1-479-203-11 | ENCODER (ROTARY) (OPERATION DIAL) | |
| R721 | 1-247-847-91 | CARBON 4.7K 5% | 1/4W | ***** | | | |
| R722 | 1-247-847-91 | CARBON 4.7K 5% | 1/4W | A-1089-297-A | MAIN BOARD, COMPLETE (GNX60: E2) | | |
| R723 | 1-247-847-91 | CARBON 4.7K 5% | 1/4W | A-1089-299-A | MAIN BOARD, COMPLETE (GNX70: E2) | | |
| R731 | 1-247-807-31 | CARBON 100 5% | 1/4W | A-1089-301-A | MAIN BOARD, COMPLETE (GX9900) | | |
| R732 | 1-249-429-11 | CARBON 10K 5% | 1/4W | A-1105-022-A | MAIN BOARD, COMPLETE (GNX60: E3) | | |
| R733 | 1-247-831-91 | CARBON 1K 5% | 1/4W | A-1105-023-A | MAIN BOARD, COMPLETE (GNX60: E51) | | |
| R734 | 1-249-430-11 | CARBON 12K 5% | 1/4W | A-1105-024-A | MAIN BOARD, COMPLETE (AR) | | |
| R735 | 1-247-807-31 | CARBON 100 5% | 1/4W | A-1105-025-A | MAIN BOARD, COMPLETE (GNX60: AUS) | | |
| R751 | 1-247-847-91 | CARBON 4.7K 5% | 1/4W | A-1105-026-A | MAIN BOARD, COMPLETE (GNX70: E3) | | |
| ***** | | | | A-1105-027-A | MAIN BOARD, COMPLETE (GNX70: E51) | | |
| | | JOG BOARD | | A-1105-028-A | MAIN BOARD, COMPLETE (GNX70: AUS) | | |
| | | ***** | | ***** | | | |
| | | < CAPACITOR > | | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 IT-3 | | |
| C1150 | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% | 50V | | | < CAPACITOR > | |
| | | < CONNECTOR > | | C100 | 1-104-658-91 | ELECT 100uF 20% | 10V |
| * CNS903 | 1-562-573-11 | SOCKET, CONNECTOR 8P | | C102 | 1-126-964-11 | ELECT 10uF 20% | 50V |
| | | < DIODE > | | C103 | 1-126-964-11 | ELECT 10uF 20% | 50V |
| D919 | 8-719-071-44 | DIODE SELS5223C-TP15 (VOL 2) | | C104 | 1-126-964-11 | ELECT 10uF 20% | 50V |
| D920 | 8-719-071-44 | DIODE SELS5223C-TP15 (VOL 3) | | C105 | 1-126-964-11 | ELECT 10uF 20% | 50V |
| D921 | 8-719-071-44 | DIODE SELS5223C-TP15 (VOL 4) | | C106 | 1-136-157-00 | FILM 0.022uF 5% | 50V |
| D922 | 8-719-071-44 | DIODE SELS5223C-TP15 (VOL 5) | | C107 | 1-136-157-00 | FILM 0.022uF 5% | 50V |
| D923 | 8-719-071-44 | DIODE SELS5223C-TP15 (VOL 6) | | C108 | 1-136-159-00 | FILM 0.033uF 5% | 50V |
| D924 | 8-719-071-44 | DIODE SELS5223C-TP15 (VOL 1) | | C109 | 1-126-960-11 | ELECT 1uF 20% | 50V |
| | | < JUMPER RESISTOR > | | C110 | 1-162-974-11 | CERAMIC CHIP 0.01uF | 50V |
| JR904 | 1-216-296-11 | SHORT CHIP 0 | | C111 | 1-126-964-11 | ELECT 10uF 20% | 50V |
| JR905 | 1-216-864-11 | SHORT CHIP 0 | | C112 | 1-136-170-00 | FILM 0.27uF 5% | 50V |
| | | < TRANSISTOR > | | C113 | 1-136-170-00 | FILM 0.27uF 5% | 50V |
| Q911 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | | C114 | 1-126-964-11 | ELECT 10uF 20% | 50V |
| Q912 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | | C115 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| Q913 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | | C116 | 1-126-923-91 | ELECT 220uF 20% | 10V |
| | | < RESISTOR > | | C121 | 1-162-957-11 | CERAMIC CHIP 220PF 5% | 50V |
| R1138 | 1-216-820-11 | METAL CHIP 820 5% | 1/10W | C122 | 1-162-957-11 | CERAMIC CHIP 220PF 5% | 50V |
| R1139 | 1-216-820-11 | METAL CHIP 820 5% | 1/10W | C130 | 1-126-964-11 | ELECT 10uF 20% | 50V |
| R1140 | 1-216-820-11 | METAL CHIP 820 5% | 1/10W | C131 | 1-126-959-11 | ELECT 0.47uF 20% | 50V |
| R1144 | 1-216-820-11 | METAL CHIP 820 5% | 1/10W | C140 | 1-136-495-11 | FILM 0.068uF 5% | 50V |
| R1145 | 1-216-820-11 | METAL CHIP 820 5% | 1/10W | C149 | 1-164-156-11 | CERAMIC CHIP 0.1uF | 25V |
| | | | | C150 | 1-126-964-11 | ELECT 10uF 20% | 50V |
| | | | | C152 | 1-126-964-11 | ELECT 10uF 20% | 50V |
| | | | | C153 | 1-126-964-11 | ELECT 10uF 20% | 50V |
| | | | | C154 | 1-126-964-11 | ELECT 10uF 20% | 50V |
| | | | | C155 | 1-126-964-11 | ELECT 10uF 20% | 50V |
| | | | | C156 | 1-136-157-00 | FILM 0.022uF 5% | 50V |
| | | | | C157 | 1-136-157-00 | FILM 0.022uF 5% | 50V |
| | | | | C158 | 1-136-159-00 | FILM 0.033uF 5% | 50V |
| | | | | C159 | 1-126-960-11 | ELECT 1uF 20% | 50V |

HCD-GNX60/GNX70/GX9900

MAIN

| Ref. No. | Part No. | Description | Remarks | | | Ref. No. | Part No. | Description | Remarks | | |
|----------|--------------|--------------|----------|-----|---------------|----------|--------------|----------------------------------|---------|-----|---------------|
| C160 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V | C391 | 1-126-933-11 | ELECT | 100uF | 20% | 16V |
| C161 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | C405 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C162 | 1-136-170-00 | FILM | 0.27uF | 5% | 50V | C410 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C163 | 1-136-170-00 | FILM | 0.27uF | 5% | 50V | | | | | | |
| | | | | | | C411 | 1-162-919-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C180 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | C412 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C181 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V | C416 | 1-104-656-11 | ELECT | 2200uF | 20% | 6.3V |
| C210 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V | C419 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| | | | | | (GNX60/GNX70) | C429 | 1-162-923-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C211 | 1-104-658-91 | ELECT | 100uF | 20% | 10V | | | | | | |
| | | | | | (GNX60/GNX70) | C430 | 1-162-923-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C250 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | C462 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| | | | | | | C464 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C251 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | C497 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C260 | 1-162-957-11 | CERAMIC CHIP | 220PF | 5% | 50V | C498 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C261 | 1-162-957-11 | CERAMIC CHIP | 220PF | 5% | 50V | | | | | | |
| C262 | 1-162-957-11 | CERAMIC CHIP | 220PF | 5% | 50V | C499 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C263 | 1-162-957-11 | CERAMIC CHIP | 220PF | 5% | 50V | C501 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| | | | | | | C502 | 1-136-497-81 | FILM | 0.1uF | 5% | 50V |
| C264 | 1-165-647-91 | CERAMIC CHIP | 0.47uF | 10% | 6.3V | C503 | 1-136-497-81 | FILM | 0.1uF | 5% | 50V |
| C280 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | C507 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C281 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | | | | | | |
| C301 | 1-136-967-11 | FILM | 0.012uF | 5% | 100V | C511 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C303 | 1-136-497-81 | FILM | 0.1uF | 5% | 50V | | | | | | (E2, E3, E51) |
| | | | | | | C520 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C304 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | C521 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C305 | 1-126-960-11 | ELECT | 1uF | 20% | 50V | C522 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C306 | 1-126-961-11 | ELECT | 2.2uF | 20% | 50V | C523 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C307 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | | | | | | |
| C308 | 1-126-925-91 | ELECT | 470uF | 20% | 10V | C524 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| | | | | | | C525 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C309 | 1-126-947-11 | ELECT | 47uF | 20% | 35V | C534 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C310 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | C535 | 1-126-928-11 | ELECT | 3300uF | 20% | 10V |
| C311 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | C537 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C312 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | | | | | | |
| C314 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C538 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| | | | | | | C539 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C340 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V | C540 | 1-126-960-11 | ELECT | 1uF | 20% | 50V |
| C341 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V | C541 | 1-126-960-11 | ELECT | 1uF | 20% | 50V |
| C351 | 1-136-967-11 | FILM | 0.012uF | 5% | 100V | C542 | 1-126-960-11 | ELECT | 1uF | 20% | 50V |
| C353 | 1-136-497-81 | FILM | 0.1uF | 5% | 50V | | | | | | |
| C354 | 1-126-157-11 | ELECT | 10uF | 20% | 16V | C543 | 1-126-960-11 | ELECT | 1uF | 20% | 50V |
| | | | | | | C544 | 1-126-960-11 | ELECT | 1uF | 20% | 50V |
| C355 | 1-126-960-11 | ELECT | 1uF | 20% | 50V | C545 | 1-126-960-11 | ELECT | 1uF | 20% | 50V |
| C356 | 1-126-961-11 | ELECT | 2.2uF | 20% | 50V | C546 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C359 | 1-126-947-11 | ELECT | 47uF | 20% | 35V | C547 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C361 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | | | | | | |
| C364 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | C550 | 1-126-933-11 | ELECT | 100uF | 20% | 16V |
| | | | | | | C551 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C370 | 1-137-150-11 | FILM | 0.01uF | 5% | 100V | C552 | 1-126-961-11 | ELECT | 2.2uF | 20% | 50V |
| C371 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF | 10% | 50V | C553 | 1-126-942-61 | ELECT | 1000uF | 20% | 25V |
| C372 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | C560 | 1-130-483-00 | MYLAR | 0.01uF | 5% | 50V |
| C373 | 1-162-964-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | | | | | | |
| C374 | 1-126-947-11 | ELECT | 47uF | 20% | 35V | C561 | 1-130-483-00 | MYLAR | 0.01uF | 5% | 50V |
| | | | | | | C562 | 1-126-933-11 | ELECT | 100uF | 20% | 16V |
| C375 | 1-162-963-11 | CERAMIC CHIP | 680PF | 10% | 50V | C563 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C376 | 1-162-963-11 | CERAMIC CHIP | 680PF | 10% | 50V | C564 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C377 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V | C565 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C378 | 1-162-928-11 | CERAMIC CHIP | 120PF | 5% | 50V | | | | | | |
| C379 | 1-130-481-00 | MYLAR | 0.0068uF | 5% | 50V | C566 | 1-128-548-11 | ELECT | 4700uF | 20% | 25V |
| | | | | | | C567 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C380 | 1-162-928-11 | CERAMIC CHIP | 120PF | 5% | 50V | C568 | 1-126-916-11 | ELECT | 1000uF | 20% | 6.3V |
| C381 | 1-164-670-11 | CERAMIC CHIP | 1200PF | 5% | 16V | C580 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C382 | 1-164-670-11 | CERAMIC CHIP | 1200PF | 5% | 16V | C581 | 1-164-156-11 | CERAMIC CHIP | 0.1uF | | 25V |
| C383 | 1-162-959-11 | CERAMIC CHIP | 330PF | 5% | 50V | | | | | | |
| C384 | 1-162-959-11 | CERAMIC CHIP | 330PF | 5% | 50V | | | | | | |
| | | | | | | | | | | | < CONNECTOR > |
| C385 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V | * CN100 | 1-564-706-11 | PIN, CONNECTOR (SMALL TYPE) 4P | | | |
| C386 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V | CN402 | 1-785-336-11 | PIN, CONNECTOR (LIGHT ANGLE) 10P | | | |

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|--|---------|----------|--------------|---------------------|-----------------|
| CN501 | 1-573-845-11 | CONNECTOR, BOARD TO BOARD 13P | | | | | |
| * CN502 | 1-774-876-21 | CONNECTOR, BOARD TO BOARD 8P | | | | < JUMPER RESISTOR > | |
| * CN503 | 1-564-705-11 | PIN, CONNECTOR (SMALL TYPE) 3P | | | | | |
| CN505 | 1-819-027-11 | FFC/FPC CONNECTOR (ZIF) 27P | | JR001 | 1-216-864-11 | SHORT CHIP | 0 |
| CN506 | 1-568-441-11 | SOCKET, CONNECTOR 9P | | JR002 | 1-216-296-11 | SHORT CHIP | 0 |
| * CN507 | 1-564-710-11 | PIN, CONNECTOR (SMALL TYPE) 8P | | JR003 | 1-216-864-11 | SHORT CHIP | 0 |
| * CN508 | 1-569-934-11 | SOCKET, CONNECTOR 17P | | JR007 | 1-216-296-11 | SHORT CHIP | 0 |
| * CN509 | 1-569-930-11 | SOCKET, CONNECTOR 13P | | JR009 | 1-216-864-11 | SHORT CHIP | 0 |
| * CN510 | 1-568-449-11 | HOUSING, CONNECTOR (PC BOARD) 3P | | JR010 | 1-216-864-11 | SHORT CHIP | 0 |
| CN580 | 1-564-506-11 | PLUG, CONNECTOR 3P | | JR012 | 1-216-864-11 | SHORT CHIP | 0 |
| | | < DIODE > | | JR014 | 1-216-864-11 | SHORT CHIP | 0 |
| D340 | 8-719-988-61 | DIODE 1SS355TE-17 | | JR015 | 1-216-864-11 | SHORT CHIP | 0 |
| D341 | 8-719-988-61 | DIODE 1SS355TE-17 | | JR016 | 1-216-864-11 | SHORT CHIP | 0 |
| D342 | 8-719-988-61 | DIODE 1SS355TE-17 | | JR017 | 1-216-864-11 | SHORT CHIP | 0 |
| D401 | 8-719-988-61 | DIODE 1SS355TE-17 | | JR018 | 1-216-864-11 | SHORT CHIP | 0 |
| D402 | 8-719-988-61 | DIODE 1SS355TE-17 | | JR019 | 1-216-864-11 | SHORT CHIP | 0 |
| D501 | 8-719-988-61 | DIODE 1SS355TE-17 | | JR020 | 1-216-864-11 | SHORT CHIP | 0 |
| D502 | 8-719-988-61 | DIODE 1SS355TE-17 | | JR021 | 1-216-864-11 | SHORT CHIP | 0 |
| D503 | 8-719-988-61 | DIODE 1SS355TE-17 | | JR022 | 1-216-864-11 | SHORT CHIP | 0 |
| D504 | 8-719-988-61 | DIODE 1SS355TE-17 | | JR028 | 1-216-864-11 | SHORT CHIP | 0 |
| D505 | 8-719-988-61 | DIODE 1SS355TE-17 | | JR029 | 1-216-864-11 | SHORT CHIP | 0 |
| D550 | 8-719-988-61 | DIODE 1SS355TE-17 | | JR030 | 1-216-864-11 | SHORT CHIP | 0 |
| D551 | 8-719-988-61 | DIODE 1SS355TE-17 (E2, E3, E51) | | JR031 | 1-216-864-11 | SHORT CHIP | 0 |
| D560 | 8-719-028-23 | DIODE D3SBA20-4101 | | JR032 | 1-216-864-11 | SHORT CHIP | 0 |
| D561 | 6-500-522-21 | DIODE 10EDB40-TB3 | | JR034 | 1-216-864-11 | SHORT CHIP | 0 |
| D562 | 6-500-522-21 | DIODE 10EDB40-TB3 | | JR035 | 1-216-864-11 | SHORT CHIP | 0 |
| D563 | 6-500-522-21 | DIODE 10EDB40-TB3 | | JR036 | 1-216-296-11 | SHORT CHIP | 0 |
| D581 | 8-719-056-82 | DIODE UDZ-TE-17-6.2B | | JR138 | 1-216-864-11 | SHORT CHIP | 0 |
| D583 | 8-719-056-83 | DIODE UDZ-TE-17-6.8B | | JR261 | 1-216-864-11 | SHORT CHIP | 0 |
| | | < FERRITE BEAD > | | JR359 | 1-216-864-11 | SHORT CHIP | 0 |
| FB150 | 1-216-864-11 | SHORT CHIP | 0 | JR390 | 1-216-864-11 | SHORT CHIP | 0 |
| FB260 | 1-216-864-11 | SHORT CHIP | 0 | JR465 | 1-216-864-11 | SHORT CHIP | 0 |
| FB261 | 1-216-864-11 | SHORT CHIP | 0 | JR466 | 1-216-864-11 | SHORT CHIP | 0 |
| FB262 | 1-216-864-11 | SHORT CHIP | 0 | JR467 | 1-216-864-11 | SHORT CHIP | 0 |
| FB263 | 1-216-864-11 | SHORT CHIP | 0 | JR507 | 1-216-864-11 | SHORT CHIP | 0 (US, AR, AUS) |
| FB506 | 1-500-283-11 | INDUCTOR, FERRITE BEAD | | | | < COIL > | |
| FB507 | 1-500-283-11 | INDUCTOR, FERRITE BEAD | | L302 | 1-414-189-31 | INDUCTOR | 100uH |
| FB508 | 1-500-283-11 | INDUCTOR, FERRITE BEAD | | L370 | 1-410-780-11 | INDUCTOR | 27mH |
| FB509 | 1-500-283-11 | INDUCTOR, FERRITE BEAD | | L371 | 1-410-780-11 | INDUCTOR | 27mH |
| FB510 | 1-500-283-11 | INDUCTOR, FERRITE BEAD | | L372 | 1-414-189-31 | INDUCTOR | 100uH |
| FB512 | 1-500-283-11 | INDUCTOR, FERRITE BEAD | | | | < TRANSISTOR > | |
| | | < IC > | | Q101 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 |
| IC101 | 6-703-650-11 | IC M61529FP-D60G | | Q151 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 |
| IC210 | 8-749-019-25 | IC TOTX141 (DIGITAL OUT) (GNX60/GNX70) | | Q180 | 8-729-802-80 | TRANSISTOR | 2SC3661 |
| IC301 | 6-702-130-01 | IC HA12237F | | Q181 | 8-729-802-80 | TRANSISTOR | 2SC3661 |
| IC401 | 6-805-739-01 | IC M30622MEP-A11FPU0 | | Q250 | 8-729-802-80 | TRANSISTOR | 2SC3661 |
| IC402 | 6-705-809-01 | IC BD4929G-TR | | Q251 | 8-729-802-80 | TRANSISTOR | 2SC3661 |
| IC550 | 6-703-610-01 | IC RT8H015C-T112-1 | | Q280 | 8-729-802-80 | TRANSISTOR | 2SC3661 |
| IC560 | 8-759-394-36 | IC BA09T | | Q281 | 8-729-802-80 | TRANSISTOR | 2SC3661 |
| IC561 | 6-703-550-01 | IC TA7809LS | | Q340 | 8-729-903-46 | TRANSISTOR | 2SB1132-P |
| IC562 | 6-702-771-01 | IC TA78033LS | | Q341 | 8-729-903-46 | TRANSISTOR | 2SB1132-P |
| | | < JACK > | | Q342 | 8-729-903-46 | TRANSISTOR | 2SB1132-P |
| J101 | 1-794-981-11 | JACK, PIN 4P (TV, VIDEO/MD) | | Q343 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 |
| | | | | Q344 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 |
| | | | | Q345 | 8-729-027-43 | TRANSISTOR | DTC114EKA-T146 |
| | | | | Q370 | 8-729-141-75 | TRANSISTOR | 2SD596DV345 |

HCD-GNX60/GNX70/GX9900

MAIN

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|---|---------|----------|--------------|--------------------|---------|
| Q371 | 8-729-802-80 | TRANSISTOR 2SC3661 | | R166 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| Q372 | 8-729-802-80 | TRANSISTOR 2SC3661 | | R180 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| Q373 | 8-729-802-80 | TRANSISTOR 2SC3661 | | | | | |
| Q374 | 8-729-802-80 | TRANSISTOR 2SC3661 | | R181 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| Q375 | 8-729-802-80 | TRANSISTOR 2SC3661 | | R182 | 1-216-841-11 | METAL CHIP 47K 5% | 1/10W |
| | | | | R183 | 1-216-841-11 | METAL CHIP 47K 5% | 1/10W |
| Q376 | 8-729-802-80 | TRANSISTOR 2SC3661 | | R184 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| Q377 | 6-550-580-01 | TRANSISTOR 2SA1235TP-1F | | R185 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| Q378 | 6-550-185-01 | TRANSISTOR RT1P137P-TP-1 | | | | | |
| Q379 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | | R186 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| Q380 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | | R187 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| | | | | R250 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| Q381 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | | R251 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| Q382 | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 | | R252 | 1-216-839-11 | METAL CHIP 33K 5% | 1/10W |
| Q383 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | | | | | |
| Q389 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | | R253 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| Q501 | 8-729-901-00 | TRANSISTOR DTC124EK | | R254 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| | | | | R255 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| Q504 | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 | | R256 | 1-216-839-11 | METAL CHIP 33K 5% | 1/10W |
| Q505 | 8-729-901-00 | TRANSISTOR DTC124EK | | R257 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| Q506 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 (E2, E3, E51) | | | | | |
| Q540 | 8-729-027-31 | TRANSISTOR DTA124EKA-T146 | | R260 | 1-216-864-11 | SHORT CHIP 0 | |
| Q541 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | | R261 | 1-216-864-11 | SHORT CHIP 0 | |
| | | | | R262 | 1-216-864-11 | SHORT CHIP 0 | |
| Q542 | 8-729-027-31 | TRANSISTOR DTA124EKA-T146 | | R263 | 1-216-864-11 | SHORT CHIP 0 | |
| Q543 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | | R264 | 1-216-845-11 | METAL CHIP 100K 5% | 1/10W |
| Q544 | 8-729-027-31 | TRANSISTOR DTA124EKA-T146 | | | | | |
| Q545 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | | R265 | 1-216-845-11 | METAL CHIP 100K 5% | 1/10W |
| Q550 | 8-729-014-97 | TRANSISTOR FA1L3Z-T1B (E2, E3, E51) | | R266 | 1-216-845-11 | METAL CHIP 100K 5% | 1/10W |
| | | | | R267 | 1-216-845-11 | METAL CHIP 100K 5% | 1/10W |
| Q560 | 6-550-185-01 | TRANSISTOR RT1P137P-TP-1 | | R268 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| Q561 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | | R269 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| Q580 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | | |
| Q581 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | | R270 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| Q582 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R271 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| | | | | R272 | 1-216-837-11 | METAL CHIP 22K 5% | 1/10W |
| Q583 | 8-729-027-31 | TRANSISTOR DTA124EKA-T146 | | R273 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| Q584 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | | R274 | 1-216-841-11 | METAL CHIP 47K 5% | 1/10W |
| Q585 | 8-729-026-68 | TRANSISTOR 2SD2525 (TP) | | | | | |
| | | < RESISTOR > | | R281 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| | | | | R282 | 1-216-839-11 | METAL CHIP 33K 5% | 1/10W |
| R101 | 1-216-825-11 | METAL CHIP 2.2K 5% | 1/10W | R285 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| R102 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W | R286 | 1-216-839-11 | METAL CHIP 33K 5% | 1/10W |
| R103 | 1-216-818-11 | METAL CHIP 560 5% | 1/10W | R290 | 1-216-841-11 | METAL CHIP 47K 5% | 1/10W |
| R104 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W | | | | |
| R105 | 1-216-841-11 | METAL CHIP 47K 5% | 1/10W | R291 | 1-216-829-11 | METAL CHIP 4.7K 5% | 1/10W |
| | | | | R292 | 1-216-841-11 | METAL CHIP 47K 5% | 1/10W |
| R106 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W | R293 | 1-216-841-11 | METAL CHIP 47K 5% | 1/10W |
| R107 | 1-216-813-11 | METAL CHIP 220 5% | 1/10W | R294 | 1-216-829-11 | METAL CHIP 4.7K 5% | 1/10W |
| R116 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W | R295 | 1-216-841-11 | METAL CHIP 47K 5% | 1/10W |
| R121 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W | | | | |
| R122 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W | R296 | 1-216-829-11 | METAL CHIP 4.7K 5% | 1/10W |
| | | | | R297 | 1-216-841-11 | METAL CHIP 47K 5% | 1/10W |
| R130 | 1-216-825-11 | METAL CHIP 2.2K 5% | 1/10W | R301 | 1-216-827-11 | METAL CHIP 3.3K 5% | 1/10W |
| R131 | 1-216-825-11 | METAL CHIP 2.2K 5% | 1/10W | R302 | 1-216-829-11 | METAL CHIP 4.7K 5% | 1/10W |
| R132 | 1-216-857-11 | METAL CHIP 1M 5% | 1/10W | R303 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| R133 | 1-216-845-11 | METAL CHIP 100K 5% | 1/10W | | | | |
| R140 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W | R304 | 1-216-825-11 | METAL CHIP 2.2K 5% | 1/10W |
| | | | | R305 | 1-216-841-11 | METAL CHIP 47K 5% | 1/10W |
| R150 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W | R306 | 1-216-837-11 | METAL CHIP 22K 5% | 1/10W |
| R151 | 1-216-825-11 | METAL CHIP 2.2K 5% | 1/10W | R307 | 1-216-857-11 | METAL CHIP 1M 5% | 1/10W |
| R152 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W | R308 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| R153 | 1-216-818-11 | METAL CHIP 560 5% | 1/10W | | | | |
| R154 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W | R309 | 1-216-829-11 | METAL CHIP 4.7K 5% | 1/10W |
| | | | | R310 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| R155 | 1-216-841-11 | METAL CHIP 47K 5% | 1/10W | R311 | 1-216-864-11 | SHORT CHIP 0 | |
| R156 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W | R312 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| R157 | 1-216-813-11 | METAL CHIP 220 5% | 1/10W | R319 | 1-216-825-11 | METAL CHIP 2.2K 5% | 1/10W |

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|-------------|-----------------|----------|--------------|-------------|----------------|
| R336 | 1-218-867-11 | METAL CHIP | 6.8K 0.5% 1/10W | R409 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R337 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W | R411 | 1-216-851-11 | METAL CHIP | 330K 5% 1/10W |
| R339 | 1-216-837-11 | METAL CHIP | 22K 5% 1/10W | R412 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W |
| R340 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W | R413 | 1-216-864-11 | SHORT CHIP | 0 |
| R341 | 1-216-827-11 | METAL CHIP | 3.3K 5% 1/10W | R417 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R342 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W | R418 | 1-216-813-11 | METAL CHIP | 220 5% 1/10W |
| R343 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W | R419 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R344 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | R420 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| R345 | 1-216-827-11 | METAL CHIP | 3.3K 5% 1/10W | R421 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R346 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | R422 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R347 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W | R423 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R348 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | R424 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R349 | 1-216-827-11 | METAL CHIP | 3.3K 5% 1/10W | R425 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R351 | 1-216-827-11 | METAL CHIP | 3.3K 5% 1/10W | R426 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R352 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W | R427 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R353 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W | R428 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R354 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W | R429 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R355 | 1-216-841-11 | METAL CHIP | 47K 5% 1/10W | R430 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R356 | 1-218-867-11 | METAL CHIP | 6.8K 0.5% 1/10W | R431 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R357 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W | R432 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R369 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W | R433 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R370 | 1-216-827-11 | METAL CHIP | 3.3K 5% 1/10W | R434 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R371 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W | R438 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R372 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W | R439 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R373 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W | R440 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R374 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W | R441 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R375 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W | R442 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R376 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W | R443 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R377 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W | R444 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R378 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W | R445 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R379 | 1-216-797-11 | METAL CHIP | 10 5% 1/10W | R446 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R380 | 1-218-867-11 | METAL CHIP | 6.8K 0.5% 1/10W | R447 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R381 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W | R448 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R382 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W | R451 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R383 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W | R452 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R384 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W | R463 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R385 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W | R469 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R386 | 1-216-803-11 | METAL CHIP | 33 5% 1/10W | R470 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R387 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W | R472 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R388 | 1-218-867-11 | METAL CHIP | 6.8K 0.5% 1/10W | R475 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R389 | 1-216-837-11 | METAL CHIP | 22K 5% 1/10W | R476 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R390 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W | R477 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R391 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W | R478 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R392 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W | R484 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R393 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W | R485 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R394 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W | R486 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R395 | 1-216-841-11 | METAL CHIP | 47K 5% 1/10W | R487 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R396 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W | R488 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R397 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W | R489 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R399 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W | R490 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R400 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W | R492 | 1-216-815-11 | METAL CHIP | 330 5% 1/10W |
| R401 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W | | | | (GNX70/GX9900) |
| R402 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W | R492 | 1-216-864-11 | SHORT CHIP | 0 (GNX60) |
| R403 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W | R493 | 1-216-815-11 | METAL CHIP | 330 5% 1/10W |
| R404 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W | | | | (E3) |
| R405 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W | R493 | 1-216-823-11 | METAL CHIP | 1.5K 5% 1/10W |
| R406 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W | | | | (AUS) |
| R407 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W | | | | |

HCD-GNX60/GNX70/GX9900

Ver. 1.1

MAIN **MIC**

| Ref. No. | Part No. | Description | Remarks |
|-----------------|--------------|-------------------------------|---------------------------------------|
| R493 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W (US, E2, E51, AR) |
| R500 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R501 | 1-216-813-11 | METAL CHIP | 220 5% 1/10W |
| R502 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| R503 | 1-216-864-11 | SHORT CHIP | 0 |
| R505 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W |
| R508 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W (E2, E3, E51) |
| R509 | 1-216-832-11 | METAL CHIP | 8.2K 5% 1/10W (GNX70: E2, E3, E51) |
| R509 | 1-216-837-11 | METAL CHIP | 22K 5% 1/10W (GNX60: E2, E3, E51) |
| R529 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R530 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R532 | 1-216-864-11 | SHORT CHIP | 0 |
| R538 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R540 | 1-216-843-11 | METAL CHIP | 68K 5% 1/10W |
| R541 | 1-216-835-11 | METAL CHIP | 15K 5% 1/10W |
| R542 | 1-216-853-11 | METAL CHIP | 470K 5% 1/10W |
| R543 | 1-216-843-11 | METAL CHIP | 68K 5% 1/10W |
| R544 | 1-216-835-11 | METAL CHIP | 15K 5% 1/10W |
| R545 | 1-216-853-11 | METAL CHIP | 470K 5% 1/10W |
| R546 | 1-216-843-11 | METAL CHIP | 68K 5% 1/10W |
| R547 | 1-216-835-11 | METAL CHIP | 15K 5% 1/10W |
| R548 | 1-216-853-11 | METAL CHIP | 470K 5% 1/10W |
| R551 | 1-216-842-11 | METAL CHIP | 56K 5% 1/10W (E2, E3, E51) |
| R553 | 1-216-824-11 | METAL CHIP | 1.8K 5% 1/10W (E2, E3, E51) |
| R560 | 1-216-826-11 | METAL CHIP | 2.7K 5% 1/10W |
| R562 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W |
| R563 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W |
| R570 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R571 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R573 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R574 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R575 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| R577 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W |
| R579 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R580 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R582 | 1-216-864-11 | SHORT CHIP | 0 |
| R585 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R586 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R587 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R591 | 1-216-835-11 | METAL CHIP | 15K 5% 1/10W |
| R592 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W |
| R593 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W (E2, E51, AR) |
| R593 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W (GX9900) |
| R593 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W (E3, AUS) |
| < TRANSFORMER > | | | |
| T301 | 1-433-372-11 | TRANSFORMER, BIAS OSCILLATION | |

| Ref. No. | Part No. | Description | Remarks |
|---------------------|--------------|---------------------------------|------------------|
| < VIBRATOR > | | | |
| X401 | 1-760-252-12 | VIBRATOR, CRYSTAL (32.768kHz) | |
| X402 | 1-795-482-11 | VIBRATOR, CERAMIC (16MHz) | |
| ***** | | | |
| A-1089-466-A | | MIC BOARD, COMPLETE | |
| ***** | | | |
| < CAPACITOR > | | | |
| C1100 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C1101 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| C1102 | 1-124-257-00 | ELECT | 2.2uF 20% 50V |
| C1103 | 1-162-923-11 | CERAMIC CHIP | 47PF 5% 50V |
| C1104 | 1-115-416-11 | CERAMIC CHIP | 0.001uF 5% 25V |
| C1105 | 1-162-962-11 | CERAMIC CHIP | 470PF 10% 50V |
| C1106 | 1-124-257-00 | ELECT | 2.2uF 20% 50V |
| C1108 | 1-124-257-00 | ELECT | 2.2uF 20% 50V |
| C1109 | 1-162-923-11 | CERAMIC CHIP | 47PF 5% 50V |
| C1110 | 1-164-217-11 | CERAMIC CHIP | 150PF 5% 50V |
| C1111 | 1-162-923-11 | CERAMIC CHIP | 47PF 5% 50V |
| C1112 | 1-124-261-00 | ELECT | 10uF 20% 50V |
| C1113 | 1-124-261-00 | ELECT | 10uF 20% 50V |
| C1114 | 1-124-464-11 | ELECT | 0.22uF 20% 50V |
| C1115 | 1-126-961-11 | ELECT | 2.2uF 20% 50V |
| C1116 | 1-164-227-11 | CERAMIC CHIP | 0.022uF 10% 25V |
| C1117 | 1-126-960-11 | ELECT | 1uF 20% 50V |
| C1118 | 1-162-969-11 | CERAMIC CHIP | 0.0068uF 10% 25V |
| C1119 | 1-162-965-11 | CERAMIC CHIP | 0.0015uF 10% 50V |
| C1120 | 1-136-495-11 | FILM | 0.068uF 5% 50V |
| C1121 | 1-124-589-11 | ELECT | 47uF 20% 16V |
| C1122 | 1-124-589-11 | ELECT | 47uF 20% 16V |
| C1123 | 1-136-495-11 | FILM | 0.068uF 5% 50V |
| C1124 | 1-126-960-11 | ELECT | 1uF 20% 50V |
| C1125 | 1-162-965-11 | CERAMIC CHIP | 0.0015uF 10% 50V |
| C1126 | 1-162-969-11 | CERAMIC CHIP | 0.0068uF 10% 25V |
| C1127 | 1-136-495-11 | FILM | 0.068uF 5% 50V |
| C1128 | 1-126-957-11 | ELECT | 0.22uF 20% 50V |
| C1129 | 1-126-957-11 | ELECT | 0.22uF 20% 50V |
| C1130 | 1-136-155-00 | FILM | 0.015uF 5% 50V |
| C1131 | 1-126-176-11 | ELECT | 220uF 20% 10V |
| C1133 | 1-113-619-11 | CERAMIC CHIP | 0.47uF 10V |
| C1139 | 1-126-160-11 | ELECT | 1uF 20% 50V |
| C1142 | 1-216-864-11 | SHORT CHIP | 0 |
| < CONNECTOR > | | | |
| CN1102 | 1-785-329-11 | PIN, CONNECTOR (LIGHT ANGLE) 3P | |
| < DIODE > | | | |
| D1100 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| D1101 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| D1102 | 8-719-976-99 | DIODE DTZ5.1B | |
| < JUMPER RESISTOR > | | | |
| FB1100 | 1-216-864-11 | SHORT CHIP | 0 |
| FB1101 | 1-216-864-11 | SHORT CHIP | 0 |

| Ref. No. | Part No. | Description | Remarks |
|----------|--------------|----------------------------------|---------------|
| | | < IC > | |
| IC1100 | 8-759-710-97 | IC NJM4565M-D | |
| IC1101 | 8-759-496-41 | IC M65850FP-E1 | |
| | | < JACK > | |
| J1100 | 1-817-629-11 | JACK (LARGE TYPE) (MIC 1) | |
| J1101 | 1-817-629-11 | JACK (LARGE TYPE) (MIC 2) | |
| J1103 | 1-794-702-11 | JACK, HEADPHONE (PHONES) | |
| | | < JUMPER RESISTOR > | |
| JR1101 | 1-216-864-11 | SHORT CHIP | 0 |
| JR1102 | 1-216-864-11 | SHORT CHIP | 0 |
| JR1103 | 1-216-296-11 | SHORT CHIP | 0 |
| JR1104 | 1-216-296-11 | SHORT CHIP | 0 |
| JR1105 | 1-216-296-11 | SHORT CHIP | 0 |
| JR1106 | 1-216-864-11 | SHORT CHIP | 0 |
| JR1108 | 1-216-864-11 | SHORT CHIP | 0 |
| JR1113 | 1-216-296-11 | SHORT CHIP | 0 |
| JR1114 | 1-216-296-11 | SHORT CHIP | 0 |
| | | < RESISTOR > | |
| R1100 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R1101 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| R1102 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R1103 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| R1104 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W |
| R1105 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| R1106 | 1-216-841-11 | METAL CHIP | 47K 5% 1/10W |
| R1107 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R1108 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R1109 | 1-216-847-11 | METAL CHIP | 150K 5% 1/10W |
| R1110 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R1111 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W |
| R1113 | 1-216-835-11 | METAL CHIP | 15K 5% 1/10W |
| R1114 | 1-216-835-11 | METAL CHIP | 15K 5% 1/10W |
| R1115 | 1-216-815-11 | METAL CHIP | 330 5% 1/10W |
| R1116 | 1-216-815-11 | METAL CHIP | 330 5% 1/10W |
| R1117 | 1-216-835-11 | METAL CHIP | 15K 5% 1/10W |
| R1118 | 1-216-835-11 | METAL CHIP | 15K 5% 1/10W |
| R1119 | 1-216-835-11 | METAL CHIP | 15K 5% 1/10W |
| R1120 | 1-216-846-11 | METAL CHIP | 120K 5% 1/10W |
| R1121 | 1-216-835-11 | METAL CHIP | 15K 5% 1/10W |
| R1122 | 1-216-835-11 | METAL CHIP | 15K 5% 1/10W |
| R1123 | 1-216-835-11 | METAL CHIP | 15K 5% 1/10W |
| R1124 | 1-216-841-11 | METAL CHIP | 47K 5% 1/10W |
| R1125 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W |
| R1126 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W |
| R1132 | 1-216-864-11 | SHORT CHIP | 0 |
| | | < VARIABLE RESISTOR > | |
| RV1100 | 1-227-452-11 | RES, VAR, CARBON 50K (MIC LEVEL) | |
| RV1101 | 1-227-452-11 | RES, VAR, CARBON 50K (ECHOLEVEL) | |
| ***** | | | |
| | 1-687-133-12 | MOTOR (LD) BOARD | ***** |

| Ref. No. | Part No. | Description | Remarks |
|--------------|--------------|---|------------------|
| | 1-687-134-12 | MOTOR (TB) BOARD | ***** |
| | | < CONNECTOR > | |
| CN742 | 1-784-727-11 | CONNECTOR, FFC 5P | ***** |
| A-1089-504-A | | PA BOARD, COMPLETE (GNX60: E3, AUS) | |
| A-1089-530-A | | PA BOARD, COMPLETE (GNX70: E3, AUS) | |
| A-1089-586-A | | PA BOARD, COMPLETE (GX9900) | |
| A-1110-893-A | | PA BOARD, COMPLETE (GNX60: E2, E51, AR) | |
| A-1110-912-A | | PA BOARD, COMPLETE (GNX70: E2, E51) | ***** |
| | | < CAPACITOR > | |
| C600 | 1-126-963-11 | ELECT | 4.7uF 20% 50V |
| C601 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF 10% 50V |
| C602 | 1-104-658-91 | ELECT | 100uF 20% 10V |
| C604 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V |
| C605 | 1-131-992-91 | CERAMIC CHIP | 0.1uF 35V |
| C606 | 1-131-992-91 | CERAMIC CHIP | 0.1uF 35V |
| C608 | 1-126-965-91 | ELECT | 22uF 20% 50V |
| C609 | 1-128-560-11 | ELECT | 22uF 20% 100V |
| C610 | 1-128-560-11 | ELECT | 22uF 20% 100V |
| C616 | 1-136-495-11 | FILM | 0.068uF 5% 50V |
| C617 | 1-136-495-11 | FILM | 0.068uF 5% 50V |
| C618 | 1-128-582-11 | ELECT | 10uF 20% 100V |
| C619 | 1-128-582-11 | ELECT | 10uF 20% 100V |
| C634 | 1-104-665-11 | ELECT | 100uF 20% 25V |
| C635 | 1-104-665-11 | ELECT | 100uF 20% 25V |
| C636 | 1-107-721-11 | ELECT | 4.7uF 20% 100V |
| C637 | 1-107-721-11 | ELECT | 4.7uF 20% 100V |
| C648 | 1-104-658-91 | ELECT | 100uF 20% 10V |
| C649 | 1-126-964-11 | ELECT | 10uF 20% 50V |
| C650 | 1-126-963-11 | ELECT | 4.7uF 20% 50V |
| C651 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF 10% 50V |
| C652 | 1-104-658-91 | ELECT | 100uF 20% 10V |
| C654 | 1-162-960-11 | CERAMIC CHIP | 220PF 10% 50V |
| C655 | 1-126-964-11 | ELECT | 10uF 20% 50V |
| C656 | 1-127-815-11 | ELECT | 3300uF 20% 100V |
| C658 | 1-127-811-11 | ELECT | 3300uF 20% 50V |
| C660 | 1-131-992-91 | CERAMIC CHIP | 100000PF 35V |
| C666 | 1-136-495-11 | FILM | 0.068uF 5% 50V |
| C667 | 1-136-495-11 | FILM | 0.068uF 5% 50V |
| C676 | 1-127-815-11 | ELECT | 3300uF 20% 100V |
| C678 | 1-127-811-11 | ELECT | 3300uF 20% 50V |
| C681 | 1-110-563-11 | CERAMIC CHIP | 0.068uF 10% 16V |
| C682 | 1-110-563-11 | CERAMIC CHIP | 0.068uF 10% 16V |
| C683 | 1-131-992-91 | CERAMIC CHIP | 0.1uF 35V |
| C691 | 1-110-563-11 | CERAMIC CHIP | 0.068uF 10% 16V |
| C692 | 1-110-563-11 | CERAMIC CHIP | 0.068uF 10% 16V |
| C693 | 1-131-992-91 | CERAMIC CHIP | 0.1uF 35V |
| | | < CONNECTOR > | |
| CN600 | 1-764-865-41 | CONNECTOR, BOARD TO BOARD 13P | |
| CN601 | 1-784-031-41 | CONNECTOR, BOARD TO BOARD 8P | |

HCD-GNX60/GNX70/GX9900

PA

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|--|-------------------------|----------|--------------|------------------------|-------------------------------|
| | | < DIODE > | | R610 | 1-216-843-11 | METAL CHIP 68K | 5% 1/10W |
| | | | | R611 | 1-216-839-11 | METAL CHIP 33K | 5% 1/10W |
| D609 | 8-719-988-61 | DIODE 1SS355TE-17 | | △R612 | 1-245-605-51 | FUSIBLE 100 | 5% 1/4W |
| D611 | 8-719-056-93 | DIODE UDZ-TE-17-18B | | R613 | 1-215-872-11 | METAL OXIDE 3.3K | 5% 1W |
| D612 | 8-719-056-93 | DIODE UDZ-TE-17-18B | | R614 | 1-215-872-11 | METAL OXIDE 3.3K | 5% 1W |
| D620 | 8-719-988-61 | DIODE 1SS355TE-17 | | △R615 | 1-245-605-51 | FUSIBLE 100 | 5% 1/4W |
| D624 | 8-719-988-61 | DIODE 1SS355TE-17 | | △R616 | 1-217-637-00 | FUSIBLE 1 | 5% 1/4W |
| | | | | R617 | 1-216-845-11 | METAL CHIP 100K | 5% 1/10W |
| D646 | 8-719-988-61 | DIODE 1SS355TE-17 | | △R618 | 1-234-798-11 | ENCAPSULATED COMPONENT | |
| D654 | 8-719-988-61 | DIODE 1SS355TE-17 | | R619 | 1-216-821-11 | METAL CHIP 1K | 5% 1/10W |
| D655 | 8-719-988-61 | DIODE 1SS355TE-17 | | R620 | 1-216-839-11 | METAL CHIP 33K | 5% 1/10W |
| D656 | 8-719-500-60 | DIODE D5SBA20 | | R621 | 1-216-845-11 | METAL CHIP 100K | 5% 1/10W |
| D658 | 8-719-500-60 | DIODE D5SBA20 | | R622 | 1-245-711-31 | CARBON 10 | 5% 1/2W |
| D660 | 8-719-988-61 | DIODE 1SS355TE-17 | | R623 | 1-216-843-11 | METAL CHIP 68K | 5% 1/10W |
| D661 | 8-719-988-61 | DIODE 1SS355TE-17 | | | | | |
| D665 | 8-719-988-61 | DIODE 1SS355TE-17 (GNX70/GX9900) | | R624 | 1-216-837-11 | METAL CHIP 22K | 5% 1/10W |
| D670 | 8-719-988-61 | DIODE 1SS355TE-17 | | R625 | 1-216-826-11 | METAL CHIP 2.7K | 5% 1/10W (US, E2, E51, AR) |
| | | < IC > | | R625 | 1-216-827-11 | METAL CHIP 3.3K | 5% 1/10W (GNX60: E3, AUS) |
| IC600 | 8-749-017-06 | IC STK412-150 | | R625 | 1-216-828-11 | METAL CHIP 3.9K | 5% 1/10W (GNX70: E3, AUS) |
| | | < JUMPER RESISTOR > | | R626 | 1-216-842-11 | METAL CHIP 56K | 5% 1/10W |
| JR600 | 1-216-296-11 | SHORT CHIP 0 | | R627 | 1-216-821-11 | METAL CHIP 1K | 5% 1/10W |
| JR603 | 1-216-296-11 | SHORT CHIP 0 | | R628 | 1-216-837-11 | METAL CHIP 22K | 5% 1/10W |
| | | < TRANSISTOR > | | R629 | 1-216-830-11 | METAL CHIP 5.6K | 5% 1/10W |
| Q604 | 8-729-924-99 | TRANSISTOR 2SC3722K-E | | R630 | 1-216-845-11 | METAL CHIP 100K | 5% 1/10W |
| Q606 | 8-729-821-00 | TRANSISTOR 2SA1207 | | R631 | 1-216-845-11 | METAL CHIP 100K | 5% 1/10W |
| Q610 | 8-729-924-99 | TRANSISTOR 2SC3722K-E | | R632 | 1-216-845-11 | METAL CHIP 100K | 5% 1/10W |
| Q618 | 8-729-924-99 | TRANSISTOR 2SC3722K-E | | R633 | 1-216-842-11 | METAL CHIP 56K | 5% 1/10W |
| Q628 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R634 | 1-216-825-11 | METAL CHIP 2.2K | 5% 1/10W |
| Q629 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R635 | 1-216-833-11 | METAL CHIP 10K | 5% 1/10W |
| Q630 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R636 | 1-215-891-11 | METAL OXIDE 680 | 5% 2W |
| Q634 | 8-729-027-31 | TRANSISTOR DTA124EKA-T146 | | R637 | 1-215-891-11 | METAL OXIDE 680 | 5% 2W |
| Q640 | 8-729-802-80 | TRANSISTOR 2SC3661 | | R638 | 1-216-845-11 | METAL CHIP 100K | 5% 1/10W |
| Q641 | 8-729-802-80 | TRANSISTOR 2SC3661 | | R639 | 1-216-845-11 | METAL CHIP 100K | 5% 1/10W |
| Q644 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R640 | 1-216-821-11 | METAL CHIP 1K | 5% 1/10W |
| Q647 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R641 | 1-216-821-11 | METAL CHIP 1K | 5% 1/10W |
| Q648 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R642 | 1-216-811-11 | METAL CHIP 150 | 5% 1/10W |
| Q666 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 (GNX70/GX9900) | | R643 | 1-216-811-11 | METAL CHIP 150 | 5% 1/10W |
| Q668 | 8-729-924-99 | TRANSISTOR 2SC3722K-E | | R644 | 1-216-825-11 | METAL CHIP 2.2K | 5% 1/10W |
| Q682 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R645 | 1-216-833-11 | METAL CHIP 10K | 5% 1/10W |
| | | < RESISTOR > | | △R646 | 1-260-086-31 | CARBON 82 | 5% 1/2W |
| R600 | 1-216-821-11 | METAL CHIP 1K | 5% 1/10W | R647 | 1-216-829-11 | METAL CHIP 4.7K | 5% 1/10W |
| R601 | 1-216-841-11 | METAL CHIP 47K | 5% 1/10W | R648 | 1-216-829-11 | METAL CHIP 4.7K | 5% 1/10W |
| R602 | 1-216-817-11 | METAL CHIP 470 | 5% 1/10W (GNX70/GX9900) | R649 | 1-216-837-11 | METAL CHIP 22K | 5% 1/10W |
| R602 | 1-216-818-11 | METAL CHIP 560 | 5% 1/10W (GNX60) | R650 | 1-216-821-11 | METAL CHIP 1K | 5% 1/10W |
| R603 | 1-216-841-11 | METAL CHIP 47K | 5% 1/10W | R651 | 1-216-841-11 | METAL CHIP 47K | 5% 1/10W |
| R604 | 1-216-833-11 | METAL CHIP 10K | 5% 1/10W | R652 | 1-216-817-11 | METAL CHIP 470 | 5% 1/10W (GNX70/GX9900) |
| R605 | 1-216-833-11 | METAL CHIP 10K | 5% 1/10W | R652 | 1-216-818-11 | METAL CHIP 560 | 5% 1/10W (GNX60) |
| R606 | 1-216-841-11 | METAL CHIP 47K | 5% 1/10W | R653 | 1-216-841-11 | METAL CHIP 47K | 5% 1/10W |
| R607 | 1-216-825-11 | METAL CHIP 2.2K | 5% 1/10W | R654 | 1-216-841-11 | METAL CHIP 47K | 5% 1/10W |
| R608 | 1-216-845-11 | METAL CHIP 100K | 5% 1/10W | R655 | 1-216-841-11 | METAL CHIP 47K | 5% 1/10W |
| R609 | 1-216-843-11 | METAL CHIP 68K | 5% 1/10W | R656 | 1-216-849-11 | METAL CHIP 220K | 5% 1/10W |
| | | | | R657 | 1-216-849-11 | METAL CHIP 220K | 5% 1/10W |
| | | | | R658 | 1-216-845-11 | METAL CHIP 100K | 5% 1/10W |
| | | | | R660 | 1-216-837-11 | METAL CHIP 22K | 5% 1/10W |
| | | | | R661 | 1-216-837-11 | METAL CHIP 22K | 5% 1/10W |

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|--------------|--------------|---|---------------------------------|----------|--------------|--------------|------------------|
| R662 | 1-216-811-11 | METAL CHIP | 150 5% 1/10W | C908 | 1-164-230-11 | CERAMIC CHIP | 220PF 5% 50V |
| R663 | 1-216-811-11 | METAL CHIP | 150 5% 1/10W | C909 | 1-164-230-11 | CERAMIC CHIP | 220PF 5% 50V |
| △R665 | 1-260-086-31 | CARBON | 82 5% 1/2W (GNX70/GX9900) | C910 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| R666 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W (GNX70/GX9900) | C916 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| R667 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W (GNX70/GX9900) | C917 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| | | | | C918 | 1-119-941-91 | ELECT | 470uF 20% 6.3V |
| | | | | C919 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| △R668 | 1-234-798-11 | ENCAPSULATED COMPONENT | | C922 | 1-124-261-00 | ELECT | 10uF 20% 50V |
| R669 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W | C923 | 1-162-970-11 | CERAMIC CHIP | 0.01uF 10% 25V |
| R670 | 1-216-839-11 | METAL CHIP | 33K 5% 1/10W | C924 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| R671 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W | C925 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| R672 | 1-245-711-31 | CARBON | 10 5% 1/2W | C926 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| R673 | 1-216-842-11 | METAL CHIP | 56K 5% 1/10W | C927 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| R674 | 1-216-837-11 | METAL CHIP | 22K 5% 1/10W | C928 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| R676 | 1-216-849-11 | METAL CHIP | 220K 5% 1/10W | C929 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| R677 | 1-216-849-11 | METAL CHIP | 220K 5% 1/10W | C930 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| R678 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W | C931 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| R681 | 1-245-711-31 | CARBON | 10 5% 1/2W | C932 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| R682 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W | C933 | 1-164-315-11 | CERAMIC CHIP | 470PF 5% 50V |
| R683 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W | C934 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| R685 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W | C935 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| R691 | 1-245-711-31 | CARBON | 10 5% 1/2W | C936 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| R692 | 1-216-841-11 | METAL CHIP | 47K 5% 1/10W | C937 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| R693 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W | C938 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| R694 | 1-216-843-11 | METAL CHIP | 68K 5% 1/10W | C939 | 1-162-964-11 | CERAMIC CHIP | 0.001uF 10% 50V |
| R695 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W | C941 | 1-124-261-00 | ELECT | 10uF 20% 50V |
| R696 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W | C942 | 1-124-261-00 | ELECT | 10uF 20% 50V |
| R697 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W | C944 | 1-124-261-00 | ELECT | 10uF 20% 50V |
| R698 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W | C945 | 1-125-837-91 | CERAMIC CHIP | 1uF 10% 6.3V |
| | | < RELAY > | | C946 | 1-164-315-11 | CERAMIC CHIP | 470PF 5% 50V |
| RY646 | 1-755-500-11 | RELAY | | C947 | 1-125-837-91 | CERAMIC CHIP | 1uF 10% 6.3V |
| RY665 | 1-755-500-11 | RELAY (GNX70/GX9900) | | C948 | 1-164-315-11 | CERAMIC CHIP | 470PF 5% 50V |
| | | < THERMISTOR > | | C949 | 1-125-837-91 | CERAMIC CHIP | 1uF 10% 6.3V |
| TH629 | 1-807-796-11 | THERMISTOR | | C950 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF 10% 50V |
| TH630 | 1-807-796-11 | THERMISTOR | | C951 | 1-125-837-91 | CERAMIC CHIP | 1uF 10% 6.3V |
| | | < TERMINAL > | | C952 | 1-162-968-11 | CERAMIC CHIP | 0.0047uF 10% 50V |
| TM600 | 1-780-001-21 | TERMINAL BOARD (SPEAKER) (FRONT SPEAKER) | | C953 | 1-125-837-91 | CERAMIC CHIP | 1uF 10% 6.3V |
| TM601 | 1-780-001-21 | TERMINAL BOARD (SPEAKER) (SURR SPEAKER) (GNX70/GX9900) | | C954 | 1-164-227-11 | CERAMIC CHIP | 0.022uF 10% 25V |
| | | ***** | | C955 | 1-125-837-91 | CERAMIC CHIP | 1uF 10% 6.3V |
| A-1089-463-A | | PANEL BOARD, COMPLETE ***** | | C956 | 1-164-227-11 | CERAMIC CHIP | 0.022uF 10% 25V |
| | | < CAPACITOR > | | C957 | 1-125-837-91 | CERAMIC CHIP | 1uF 10% 6.3V |
| C900 | 1-126-163-11 | ELECT | 4.7uF 20% 50V | C958 | 1-165-176-11 | CERAMIC CHIP | 0.047uF 10% 16V |
| C901 | 1-164-230-11 | CERAMIC CHIP | 220PF 5% 50V | C959 | 1-165-176-11 | CERAMIC CHIP | 0.047uF 10% 16V |
| C902 | 1-164-230-11 | CERAMIC CHIP | 220PF 5% 50V | C961 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C903 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C966 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| C904 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C970 | 1-119-941-91 | ELECT | 470uF 20% 6.3V |
| C905 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V | C971 | 1-119-941-91 | ELECT | 470uF 20% 6.3V |
| C906 | 1-162-964-11 | CERAMIC CHIP | 0.001uF 10% 50V | C972 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| C907 | 1-162-964-11 | CERAMIC CHIP | 0.001uF 10% 50V | C973 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| | | | | C977 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| | | | | C978 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| | | | | C979 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| | | | | C980 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| | | | | C981 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| | | | | C982 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |
| | | | | C983 | 1-162-927-11 | CERAMIC CHIP | 100PF 5% 50V |

HCD-GNX60/GNX70/GX9900

Ver. 1.1

PANEL

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|------------------------------|--------------|------------------------------------|---------|----------------|--------------|---------------------------|---------|
| < CONNECTOR > | | | | < TRANSISTOR > | | | |
| * CN902 | 1-569-934-11 | SOCKET, CONNECTOR 17P | | Q900 | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 | |
| CNS902 | 1-819-074-11 | BOARD TO BOARD HEADER (8P) | | Q901 | 8-729-027-56 | TRANSISTOR DTC143TKA-T146 | |
| < DIODE > | | | | Q902 | 8-729-027-56 | TRANSISTOR DTC143TKA-T146 | |
| D901 | 6-501-193-01 | DIODE 1SS355WTE-17 | | Q903 | 8-729-027-23 | TRANSISTOR DTA114EKA-T146 | |
| D902 | 6-501-228-01 | DIODE SELU5420E-STP15 (I/⏻) | | Q904 | 8-729-106-60 | TRANSISTOR 2SB1115A-YQ | |
| D903 | 6-500-522-21 | DIODE 10EDB40-TB3 | | Q905 | 8-729-106-60 | TRANSISTOR 2SB1115A-YQ | |
| D904 | 6-500-522-21 | DIODE 10EDB40-TB3 | | Q906 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | |
| D905 | 8-719-056-83 | DIODE UDZ-TE-17-6.8B | | Q907 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | |
| D906 | 6-501-227-01 | DIODE SELU5620S-STP15 (CD) | | Q908 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | |
| D907 | 6-501-228-01 | DIODE SELU5420E-STP15 (CD) | | Q909 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | |
| D908 | 6-501-227-01 | DIODE SELU5620S-STP15 (TUNER/BAND) | | Q910 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | |
| D909 | 6-501-228-01 | DIODE SELU5420E-STP15 (TUNER/BAND) | | Q914 | 8-729-027-56 | TRANSISTOR DTC143TKA-T146 | |
| D910 | 6-501-227-01 | DIODE SELU5620S-STP15 (TAPE/A/B) | | Q915 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | |
| D911 | 6-501-227-01 | DIODE SELU5620S-STP15 (◀▶) | | Q916 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | |
| D912 | 6-501-227-01 | DIODE SELU5620S-STP15 (■) | | Q917 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | |
| D913 | 6-501-227-01 | DIODE SELU5620S-STP15 (TUNING/▶▶+) | | Q918 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | |
| D914 | 6-501-227-01 | DIODE SELU5620S-STP15 (ALBUM/▶▶+) | | Q919 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | |
| D915 | 6-501-228-01 | DIODE SELU5420E-STP15 (◀▶) | | Q920 | 8-729-027-43 | TRANSISTOR DTC114EKA-T146 | |
| < JUMPER RESISTOR > | | | | < RESISTOR > | | | |
| D916 | 6-501-228-01 | DIODE SELU5420E-STP15 (TAPE A/B) | | R900 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| D917 | 6-501-227-01 | DIODE SELU5620S-STP15 (TV) | | R901 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| D918 | 6-501-228-01 | DIODE SELU5420E-STP15 (TV) | | R902 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| D925 | 6-501-227-01 | DIODE SELU5620S-STP15 (VIDEO/MD) | | R903 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| D926 | 6-501-228-01 | DIODE SELU5420E-STP15 (VIDEO/MD) | | R904 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| D927 | 6-501-227-01 | DIODE SELU5620S-STP15 (I/⏻) | | R905 | 1-216-835-11 | METAL CHIP 15K 5% | 1/10W |
| D928 | 6-501-227-01 | DIODE SELU5620S-STP15 (■) | | R906 | 1-216-835-11 | METAL CHIP 15K 5% | 1/10W |
| D929 | 6-501-227-01 | DIODE SELU5620S-STP15 (TUNING/◀◀-) | | R907 | 1-216-835-11 | METAL CHIP 15K 5% | 1/10W |
| D930 | 6-501-227-01 | DIODE SELU5620S-STP15 (ALBUM/◀◀-) | | R908 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| < JUMPER RESISTOR > | | | | R909 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| FB901 | 1-216-864-11 | SHORT CHIP 0 | | R910 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| < FLUORESCENT INDICATOR > | | | | R911 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| FL901 | 1-519-794-21 | VACUUM FLUORESCENT DISPLAYS | | R912 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| < IC > | | | | R914 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| IC902 | 6-805-078-01 | IC MB90M407PF-G-144E1 | | R915 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| IC903 | 6-600-210-01 | IC RPM7240-H8 | | R917 | 1-216-845-11 | METAL CHIP 100K 5% | 1/10W |
| IC904 | 6-705-678-01 | IC NJM2760V-TE2 | | R918 | 1-216-845-11 | METAL CHIP 100K 5% | 1/10W |
| < JUMPER RESISTOR/RESISTOR > | | | | R919 | 1-216-845-11 | METAL CHIP 100K 5% | 1/10W |
| JR909 | 1-216-864-11 | SHORT CHIP 0 | | R920 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| JR910 | 1-216-864-11 | SHORT CHIP 0 | | R922 | 1-216-857-11 | METAL CHIP 1M 5% | 1/10W |
| JR911 | 1-216-864-11 | SHORT CHIP 0 | | R933 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| JR912 | 1-216-296-11 | SHORT CHIP 0 | | R939 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| JR913 | 1-216-864-11 | SHORT CHIP 0 | | R940 | 1-216-833-11 | METAL CHIP 10K 5% | 1/10W |
| JR914 | 1-216-864-11 | SHORT CHIP 0 | | R941 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| JR915 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W | R942 | 1-216-809-11 | METAL CHIP 100 5% | 1/10W |
| JR916 | 1-216-864-11 | SHORT CHIP 0 | | R943 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| JR917 | 1-216-864-11 | SHORT CHIP 0 | | R944 | 1-216-805-11 | METAL CHIP 47 5% | 1/10W |
| JR918 | 1-216-864-11 | SHORT CHIP 0 | | R945 | 1-216-839-11 | METAL CHIP 33K 5% | 1/10W |
| JR921 | 1-216-296-11 | SHORT CHIP 0 | | R946 | 1-216-842-11 | METAL CHIP 56K 5% | 1/10W |
| JR922 | 1-216-296-11 | SHORT CHIP 0 | | R947 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| | | | | R948 | 1-218-867-11 | METAL CHIP 6.8K 0.5% | 1/10W |
| | | | | R949 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| | | | | R950 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |
| | | | | R951 | 1-216-830-11 | METAL CHIP 5.6K 5% | 1/10W |
| | | | | R952 | 1-216-821-11 | METAL CHIP 1K 5% | 1/10W |

| Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|-------------|-----------------|--------------------------|---------------------------------------|--------------------------------------|-----------------|
| R953 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W | R1167 | 1-216-814-11 | METAL CHIP | 270 5% 1/10W |
| R954 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W | R1175 | 1-216-817-11 | METAL CHIP | 470 5% 1/10W |
| R956 | 1-216-826-11 | METAL CHIP | 2.7K 5% 1/10W | R1176 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W |
| R957 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W | R1177 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| R958 | 1-216-817-11 | METAL CHIP | 470 5% 1/10W | R1178 | 1-216-823-11 | METAL CHIP | 1.5K 5% 1/10W |
| R959 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | R1179 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| R960 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W | R1180 | 1-216-814-11 | METAL CHIP | 270 5% 1/10W |
| R961 | 1-216-823-11 | METAL CHIP | 1.5K 5% 1/10W | R1183 | 1-216-808-11 | METAL CHIP | 82 5% 1/10W |
| R962 | 1-216-823-11 | METAL CHIP | 1.5K 5% 1/10W | R1186 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W |
| R963 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W | R1187 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R964 | 1-216-827-11 | METAL CHIP | 3.3K 5% 1/10W | R1188 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| R965 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W | R1189 | 1-216-801-11 | METAL CHIP | 22 5% 1/10W |
| R966 | 1-218-867-11 | METAL CHIP | 6.8K 0.5% 1/10W | R1194 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| R967 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W | R1195 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| R968 | 1-216-835-11 | METAL CHIP | 15K 5% 1/10W | R1197 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| R969 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | R1198 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| R970 | 1-218-867-11 | METAL CHIP | 6.8K 0.5% 1/10W | < SWITCH > | | | |
| R971 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W | S900 | 1-762-875-21 | SWITCH, KEYBOARD (DISPLAY) | |
| R972 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S901 | 1-762-875-21 | SWITCH, KEYBOARD (MP3 BOOSTER) | |
| R973 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S902 | 1-762-875-21 | SWITCH, KEYBOARD (EQ BAND) | |
| R974 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S903 | 1-762-875-21 | SWITCH, KEYBOARD | |
| R975 | 1-216-817-11 | METAL CHIP | 470 5% 1/10W | (DIRECTION/TUNER MEMORY) | | | |
| R977 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W | S904 | 1-762-875-21 | SWITCH, KEYBOARD (REC PAUSE/START) | |
| R978 | 1-216-817-11 | METAL CHIP | 470 5% 1/10W | S910 | 1-762-875-21 | SWITCH, KEYBOARD (VIDEO/MD) | |
| R980 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W | S911 | 1-762-875-21 | SWITCH, KEYBOARD (TV) | |
| R981 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S912 | 1-762-875-21 | SWITCH, KEYBOARD (CD SYNC) | |
| R982 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S913 | 1-762-875-21 | SWITCH, KEYBOARD (◀▶) | |
| R983 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S914 | 1-762-875-21 | SWITCH, KEYBOARD (■) | |
| R984 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S915 | 1-762-875-21 | SWITCH, KEYBOARD (■) | |
| R985 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S916 | 1-479-229-11 | ROTARY ENCODER (TUNING) | |
| R986 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S917 | 1-771-963-11 | SWITCH, ROTARY (ALBUM) | |
| R987 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S918 | 1-762-875-21 | SWITCH, KEYBOARD (TAPE A/B) | |
| R988 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S919 | 1-762-875-21 | SWITCH, KEYBOARD (TUNER/BAND) | |
| R989 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S920 | 1-762-875-21 | SWITCH, KEYBOARD (CD) | |
| R990 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S925 | 1-762-875-21 | SWITCH, KEYBOARD (I/⏪) | |
| R991 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S927 | 1-762-875-21 | SWITCH, KEYBOARD (AMP MENU) | |
| R992 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S928 | 1-762-875-21 | SWITCH, KEYBOARD (ILLUMINATION) | |
| R993 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S929 | 1-762-875-21 | SWITCH, KEYBOARD (SURR SPEAKER MODE) | |
| R994 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S930 | 1-762-875-21 | SWITCH, KEYBOARD (GROOVE) | |
| R995 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S931 | 1-762-875-21 | SWITCH, KEYBOARD (SOUND FLASH) | |
| R996 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S932 | 1-762-875-21 | SWITCH, KEYBOARD (ENTER) | |
| R997 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | S970 | 1-418-725-51 | ENCODER, ROTARY (12 TYPE) (VOLUME) | |
| R999 | 1-216-864-11 | SHORT CHIP | 0 | < VIBRATOR > | | | |
| R1135 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | X901 | 1-781-282-51 | VIBRATOR, CERAMIC (4MHz) | |
| R1136 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | ***** | | | |
| R1137 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W | A-1089-510-A | PRIMARY BOARD, COMPLETE (E2, E3, E51) | | |
| R1141 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W | A-1089-525-A | PRIMARY BOARD, COMPLETE (US, AUS) | | |
| R1142 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W | A-1113-478-A | PRIMARY BOARD, COMPLETE (AR) | | |
| R1147 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W | ***** | | | |
| R1148 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W | < CAPACITOR > | | | |
| R1160 | 1-218-867-11 | METAL CHIP | 6.8K 0.5% 1/10W | C1201 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| R1161 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W | C1202 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| R1162 | 1-218-867-11 | METAL CHIP | 6.8K 0.5% 1/10W | C1204 | 1-164-156-11 | CERAMIC CHIP | 0.1uF 25V |
| R1163 | 1-216-823-11 | METAL CHIP | 1.5K 5% 1/10W | C1206 | 1-126-916-11 | ELECT | 1000uF 20% 6.3V |
| R1164 | 1-216-825-11 | METAL CHIP | 2.2K 5% 1/10W | | | | |
| R1165 | 1-216-827-11 | METAL CHIP | 3.3K 5% 1/10W | | | | |
| R1166 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W | | | | |

www.DataSheet4U.com

HCD-GNX60/GNX70/GX9900

Ver. 1.1

PRIMARY **SENSOR** **SURROUND** **SW** **TRANS**

| Ref. No. | Part No. | Description | Remarks |
|----------|--------------|----------------------------------|-------------------|
| | | < CONNECTOR > | |
| CN1200 | 1-785-329-11 | PIN, CONNECTOR (LIGHT ANGLE) 3P | |
| CN1202 | 1-564-321-00 | PIN, CONNECTOR (3.96mm PITCH) 2P | |
| CN1204 | 1-564-321-00 | PIN, CONNECTOR (3.96mm PITCH) 2P | (US, AUS) |
| CN1204 | 1-568-106-11 | PIN, CONNECTOR (3.96mm PITCH) 4P | (E2, E3, E51, AR) |
| | | < DIODE > | |
| D1200 | 8-719-988-61 | DIODE 1SS355TE-17 | |
| | | < JUMPER RESISTOR > | |
| JR1202 | 1-216-864-11 | SHORT CHIP | 0 |
| | | < COIL > | |
| L1201 | 1-410-666-31 | INDUCTOR | 18uH |
| | | < TRANSISTOR > | |
| Q1200 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| | | < RESISTOR > | |
| R1200 | 1-216-829-11 | METAL CHIP | 4.7K 5% 1/10W |
| R1201 | 1-216-845-11 | METAL CHIP | 100K 5% 1/10W |
| | | < RELAY > | |
| △RY1200 | 1-755-299-11 | RELAY | |
| | | < SWITCH > | |
| △S1200 | 1-771-291-31 | SWITCH, POWER (VOLTAGE SELECTOR) | (E2, E3, E51) |
| ***** | | | |
| | 1-687-132-12 | SENSOR BOARD | ***** |
| | | < CONNECTOR > | |
| CN731 | 1-785-329-21 | PIN, CONNECTOR (LIGHT ANGLE) 3P | |
| | | < IC > | |
| IC731 | 6-600-022-01 | IC RPI-576 | |
| ***** | | | |
| | A-1089-321-A | SURROUND BOARD, COMPLETE | ***** |
| ***** | | | |
| | 1-687-669-12 | SW BOARD | ***** |
| | 1-786-514-11 | SWITCH, LEVER (SLIDE) (LEVEL SW) | |
| ***** | | | |

| Ref. No. | Part No. | Description | Remarks |
|----------|--------------|-------------------------------------|------------------------|
| | A-1089-507-A | TRANS BOARD, COMPLETE (GNX60/GNX70) | |
| | A-1089-588-A | TRANS BOARD, COMPLETE (GX9900) | ***** |
| | | < CAPACITOR > | |
| C1262 | 1-126-964-11 | ELECT | 10uF 20% 50V |
| C1263 | 1-126-968-11 | ELECT | 100uF 20% 50V |
| C1292 | 1-128-576-11 | ELECT | 100uF 20% 63V |
| | | < CONNECTOR > | |
| * CN1212 | 1-564-522-11 | PLUG, CONNECTOR 7P | |
| * CN1213 | 1-564-521-11 | PLUG, CONNECTOR 6P | |
| | | < DIODE > | |
| D1264 | 8-719-071-83 | DIODE HZU36BTRF | |
| D1292 | 6-500-522-21 | DIODE 10EDB40-TB3 | |
| | | < FUSE HOLDER > | |
| FH1241 | 1-533-217-41 | HOLDER, FUSE | |
| FH1242 | 1-533-217-41 | HOLDER, FUSE | |
| FH1251 | 1-533-217-41 | HOLDER, FUSE | |
| FH1252 | 1-533-217-41 | HOLDER, FUSE | |
| FH1261 | 1-533-217-41 | HOLDER, FUSE | |
| FH1262 | 1-533-217-41 | HOLDER, FUSE | |
| FH1271 | 1-533-217-41 | HOLDER, FUSE | |
| FH1272 | 1-533-217-41 | HOLDER, FUSE | |
| FH1281 | 1-533-217-41 | HOLDER, FUSE | |
| FH1282 | 1-533-217-41 | HOLDER, FUSE | |
| | | < TRANSISTOR > | |
| Q1264 | 8-729-024-93 | TRANSISTOR 2SB1565E | |
| | | < RESISTOR > | |
| △R1233 | 1-219-237-11 | SOLID | 3.3M 20% 1/2W (GX9900) |
| R1262 | 1-216-832-11 | METAL CHIP | 8.2K 5% 1/10W |
| R1263 | 1-216-832-11 | METAL CHIP | 8.2K 5% 1/10W |
| R1264 | 1-216-821-11 | METAL CHIP | 1K 5% 1/10W |
| △R1292 | 1-219-124-11 | FUSIBLE | 0.68 5% 1/4W |
| ***** | | | |
| | | MISCELLANEOUS | ***** |
| △ | 1-569-007-11 | ADAPTOR, CONVERSION 2P (E3) | |
| △ | 1-569-008-21 | ADAPTOR, CONVERSION 2P (E51) | |
| 5 | 1-693-671-11 | TUNER (TM-10E) (GNX60/GNX70) | |
| 5 | 1-693-672-11 | TUNER (TM-10U) (GX9900) | |
| △7 | 1-468-737-51 | POWER, SWITCHING | |
| 8 | 1-824-048-12 | WIRE (FLAT TYPE) (27 CORE) | |
| 65 | 1-828-992-11 | WIRE (FLAT TYPE) (17 CORE) | |
| 71 | 1-797-165-11 | DECK, MECHANICAL (CMAT5Z2) | |
| 106 | 1-828-956-11 | WIRE (FLAT TYPE) (9 CORE) | |
| △107 | 1-777-071-53 | CORD, POWER (E51) | |
| △107 | 1-783-820-11 | CORD, POWER (GX9900) | |
| △107 | 1-783-941-12 | CORD, POWER (AR) | |
| △107 | 1-827-295-22 | CORD, POWER (AUS) | |
| △107 | 1-829-627-31 | POWER-SUPPLY CORD (E2, E3) | |
| 109 | 1-828-972-11 | WIRE (FLAT TYPE) (13 CORE) | |

| Ref. No. | Part No. | Description | Remarks |
|----------|--------------|--|---------------|
| 152 | 1-776-182-11 | WIRE (FLAT TYPE) (5 CORE) | |
| 226 | 1-827-992-11 | WIRE (FLAT TYPE) (16 CORE) | |
| △ 229 | 8-820-244-01 | OPTICAL PICK-UP KSM-215DCP/C2NP | |
| 230 | 1-471-035-11 | MAGNET ASSY | |
| △ F1241 | 1-576-537-12 | FUSE, GLASS TUBE (DIA.5) (T8AL/125V) | (GX9900) |
| △ F1241 | 1-576-655-12 | FUSE, GLASS TUBE (DIA. 5) (T8AL/250V) | (GNX60/GNX70) |
| △ F1251 | 1-576-537-12 | FUSE, GLASS TUBE (DIA.5) (T8AL/125V) | (GX9900) |
| △ F1251 | 1-576-655-12 | FUSE, GLASS TUBE (DIA. 5) (T8AL/250V) | (GNX60/GNX70) |
| △ F1261 | 1-576-537-12 | FUSE, GLASS TUBE (DIA.5) (T8AL/125V) | (GX9900) |
| △ F1261 | 1-576-655-12 | FUSE, GLASS TUBE (DIA. 5) (T8AL/250V) | (GNX60/GNX70) |
| △ F1271 | 1-576-537-12 | FUSE, GLASS TUBE (DIA.5) (T8AL/125V) | (GX9900) |
| △ F1271 | 1-576-655-12 | FUSE, GLASS TUBE (DIA. 5) (T8AL/250V) | (GNX60/GNX70) |
| △ F1281 | 1-533-451-12 | FUSE, GLASS TUBE (DIA. 5) (T3.15AL/125V) | (GX9900) |
| △ F1281 | 1-533-470-12 | FUSE, GLASS TUBE (DIA. 5) (T3.15AL/250V) | (GNX60/GNX70) |
| FL901 | 1-519-794-21 | VACUUM FLUORESCENT DISPLAYS | |
| M741 | A-4723-963-A | MOTOR ASSY, TABLE | |
| M751 | A-4737-553-A | MOTOR ASSY, LOADING | |
| M891 | 1-763-372-11 | FAN, DC | |
| RE701 | 1-477-680-12 | ENCODER, ROTARY | |
| △ T1200 | 1-443-542-11 | POWER TRANSFORMER (GNX60) | |
| △ T1200 | 1-443-543-11 | POWER TRANSFORMER (GNX70) | |
| △ T1200 | 1-443-544-11 | POWER TRANSFORMER (GX9900) | |

