

CX-LFA600

SERVICE MANUAL

Ver 1.0 2003.08

*AEP Model
UK Model*



CX-LFA600 is the Amplifier, CD player, Tape Deck and Tuner section in XR-FA600.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM55A-30BD64S
	Base Unit Name	BU-30BD64S
	Optical Pick-up Name	A-MAX.3
TAPE Section	Model Name Using Similar Mechanism	CX-LFA500
	Tape Transport Mechanism Type	CMAL1Z222B

SPECIFICATIONS

TUNER

FM tuning range 87.5 MHz to 108 MHz
FM usable sensitivity (IHF) 16.8 dBf
FM antenna terminal 75 Ω (unbalanced)
AM tuning range 531 kHz to 1602 kHz
AM usable sensitivity 350 μ V/m
AM antenna Loop antenna

AMPLIFIER

Power output Rated: 20 W + 20 W (6 Ω , T.H.D. 1 %, 1 kHz/DIN 45500)
Reference: 30 W + 30 W (6 Ω , T.H.D. 10 %, 1 kHz/DIN 45324)
MUSIC POWER 60 W + 60 W
Input AUX IN: 500 mV
Outputs SPEAKERS: 6 Ω or more
PHONES: 32 Ω or more

CASSETTE DECK

Track format 4 tracks, 2 channels stereo
Frequency response 50 Hz – 10000 Hz
Recording system AC bias
Heads Recording/playback $\times$ 1, erase $\times$ 1

CD PLAYER

Laser Semiconductor laser (λ = 780 nm)
Emission duration: continuous
D/A converter MULTI BIT
Signal-to-noise ratio 80 dB (1 kHz, 0 dB)
Wow and flutter Unmeasurable

GENERAL

Power requirements 230 V AC, 50/60 Hz
Power consumption 72 W
Power consumption in standby mode with ECO mode on: 0.3 W
with ECO mode off: 10 W
Dimensions (w/h/d) Approx. 190 $\times$ 250 $\times$ 307.5 mm
Mass Approx. 4.4 kg
Supplied accessories: FM antenna (1)
AM antenna (1)
Speaker cords (2)
Remote commander (1)
Batteries (2)
Speaker pads (8)

Specifications and external appearance are subject to change without notice.

MICRO HI-FI COMPONENT SYSTEM

9-961-220-01
2003H1678-1
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Home Audio Company
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SECTION 1

SERVICING NOTES

Notes on chip component replacement

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

Flexible Circuit Board Repairing

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

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.)



: LEAD FREE MARK

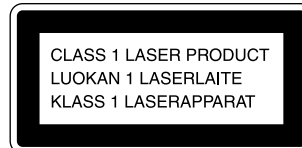
Unleaded solder has the following characteristics.

- 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.

CAUTION

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

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



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

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

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

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

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

NOTES ON LASER DIODE EMISSION CHECK

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

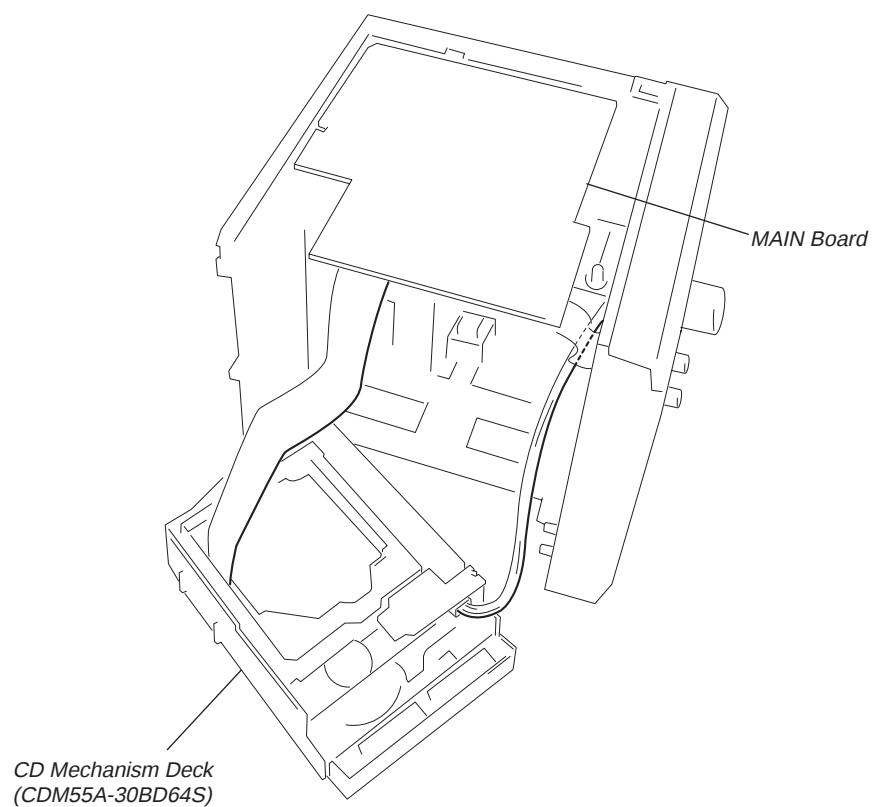
LASER DIODE AND FOCUS SEARCH OPERATION CHECK

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

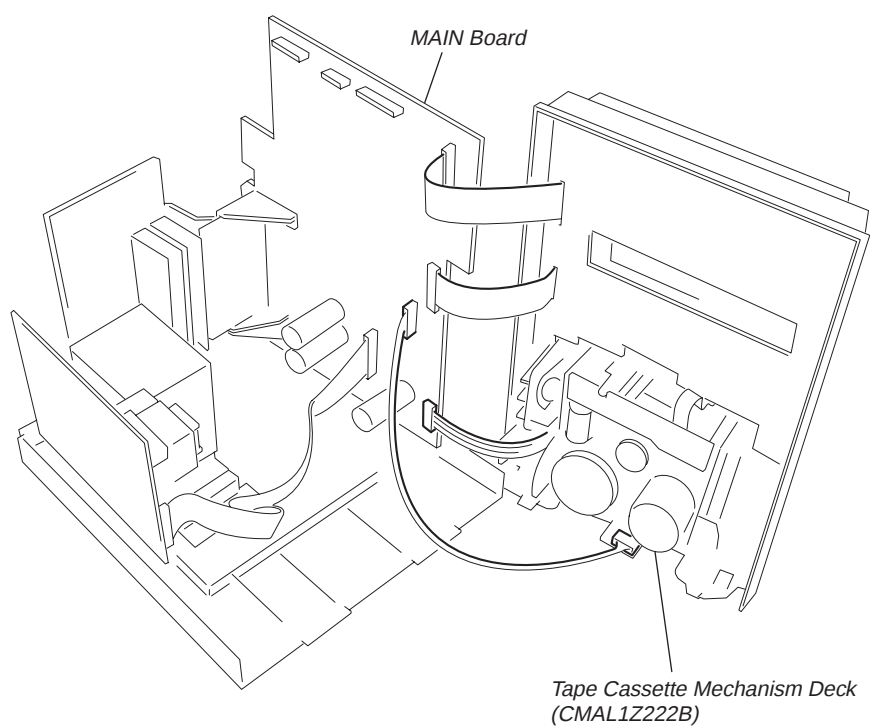
SAFETY-RELATED COMPONENT WARNING!!

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

Service Position of the CD Mechanism Deck



Service Position of the Tape Cassette Mechanism Deck



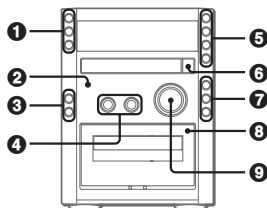
SECTION 2 GENERAL

This section is extracted from instruction manual.

PARTS AND CONTROLS

Main unit: front

Refer to the pages indicated in parentheses for details.

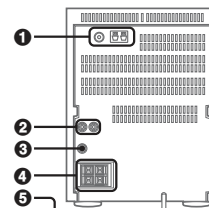


- 1 POWER ϕ STANDBY/ON (7)**
Switches the unit on and off (standby).
ECO (7)
Sets the ECO mode on or off.
RDS (12-14)
Activates RDS features.
- 2 PHONES jack**
Plug in optional headphones set with a stereo mini plug ($\phi 3.5$ mm). Speaker output is cancelled.
- 3 SYNCHRO REC (17)**
Starts recording and CD play simultaneously.
● REC START/REC PAUSE (17)
Starts and pauses recording.
- 4 BASS (15)**
Adjusts the bass level.
TREBLE (15)
Adjusts the treble level.

- 5 $\blacktriangleright \parallel \blacktriangleleft$ CD (7-10)**
Starts and pauses CD play.
TUNER/BAND (7, 12)
Selects tuner function and the tuner band.
 $\blacktriangleleft \blacktriangleright$ TAPE (REC MUTING) (7, 16, 17)
Starts playback and changes the playback side.
Also used to enter 4-second blank spaces during recording.
AUX (7)
Selects the function of external equipment connected to AUX IN jacks.
- 6 $\triangle$ OPEN/CLOSE (8)**
Opens or closes the disc compartment.
- 7 $\blacksquare$ STOP (8-10, 16, 17)**
CD and Tape: stops playback.
 $\blacktriangleleft \blacktriangleleft / \blacktriangleleft \blacktriangleleft - , + \blacktriangleright \blacktriangleright / \blacktriangleright \blacktriangleright$ (8, 10, 14-16, 18, 19)
CD: skips to a previous or a succeeding track when pressed, searches a track in fast forward or reverse playback when held down.
Tape: rewinds or fast forwards the tape.
Tuner: manually tunes up or down within the band.
- 8 $\triangle$ PUSH EJECT (16, 17)**
Opens or closes the cassette holder.
- 9 VOLUME (15, 18)**
Adjusts the volume.

Main unit: rear

Refer to the pages indicated in parentheses for details.

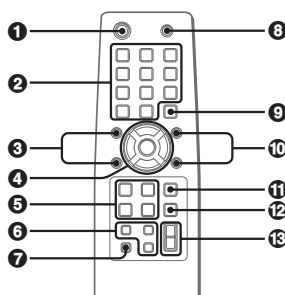


- 1 AM LOOP terminal and FM 75 Ω terminal (4)**
Plug in the supplied AM and FM antennas.
- 2 AUX IN jacks**
Accept analogue sound signals from external equipment. Connect external equipment using an optional connecting cable with RCA phono plugs (red plug to R jack, white plug to L jack). Refer also to the operating instructions for your equipment.
To switch function to external input, press AUX.
To change a source name in the display of the AUX function.
Hold down AUX and press POWER while the power is on.

→ AUX → VIDEO → TV
- 3 SUB WOOFER ∇ jack**
Connect optional powered sub woofer with a built-in amplifier to the jack.
- 4 SPEAKERS ∇ terminals (4)**
Connect the speaker cords of the supplied speakers.
- 5 AC power cord (4)**

Remote commander

Refer to the pages indicated in parentheses for details.

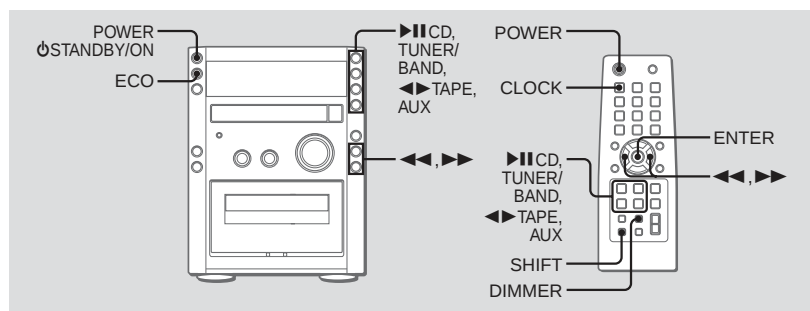


Buttons with the same or similar names on the main unit basically have the same function.

- 1 POWER (7)**
- 2 1-10/0, >10 (8, 10, 12)**
CD: selects a track of the specified number.
Tuner: tunes in the station with the specified preset number.
The numbered buttons take on these functions when pressed with SHIFT held down:
CLOCK (7)
Selects clock mode.
TIMER (18)
Selects timer mode.
TUNER MODE (15)
Switches between stereo or monaural FM reception.

- REV MODE (16, 17)**
Selects a reverse mode.
- 3 SHUFFLE/PROGRAM (8, 9)**
Selects shuffle or programmed CD playback mode.
REPEAT (8)
Selects repeat CD playback mode.
- 4 ALBUM/PRESET $\wedge, \vee$ (10, 12)**
MP3-CD: skips to a previous or succeeding album.
Tuner: tunes in a preset station.
 $\blacktriangleleft \blacktriangleleft / \blacktriangleleft \blacktriangleleft - , + \blacktriangleright \blacktriangleright / \blacktriangleright \blacktriangleright$ (8, 10, 14-16, 18, 19)
- ENTER (7, 10, 16, 17)**
Determines the mode.
Stores the received station to preset.
- 5 $\blacktriangleright \parallel \blacktriangleleft$ CD (7-10)**
TUNER/BAND (7, 12)
 $\blacktriangleleft \blacktriangleright$ TAPE (7, 14)
AUX (7)
- 6 DISPLAY (8)**
Changes the display in CD playback mode.
DIMMER (7)
Adjusts the display window brightness.
SLEEP (18)
Selects sleep-timer mode.
- 7 SHIFT**
Hold down when pressing a numbered button to change its function to that printed above the number.
- 8 MUTING (15)**
To turn off the sound temporarily.
- 9 CLEAR (9, 12, 19)**
CD: Clears a CD program
Tuner: Clears a preset station.
- 10 TREBLE (15)**
BASS (15)
- 11 $\blacksquare$ (8-10, 16, 17)**
- 12 FUNCTION (17)**
Switches the active function among TAPE, TUNER, AUX (VIDEO or TV) and CD.
- 13 VOLUME $+, -$ (15)**

ADJUSTMENTS BEFORE OPERATION



Power

Turning the unit on

Press POWER $\odot$ STANDBY/ON (POWER on the remote).
Alternatively, press $\blacktriangleleft\blacktriangleright$ TAPE, TUNER/BAND, AUX or $\blacktriangleright\blacktriangleright\blacktriangleright$ CD. Playback will start automatically if a disc or tape is loaded.

Turning the unit off

Press POWER $\odot$ STANDBY/ON again.
The unit goes into standby.

Dimmer

The display window brightness can be selected.

Press DIMMER on the remote repeatedly.
Each press of the button changes the following three levels:
"DIMMER 1", "DIMMER 2" and "DIMMER 0".
"DIMMER 0" is brightest.

ECO mode

Reduces power consumption in standby mode with the following operations.

Press ECO.

Each press of the button changes the mode as follows;

ECO ON: Power economizing mode is activated.

When the unit turns off, everything in the display disappears and only the red indicator on POWER lights to show that the power is being supplied.

ECO OFF: Power economizing mode is cancelled.

When the unit turns off, the clock display appears.

Initial mode is ECO OFF.

Standby power consumption

ECO ON: 0.3 W

ECO OFF: 10 W

Setting the clock

- 1 In stop mode, hold down SHIFT and press CLOCK on the remote.
Go to step 3 when the hour of the clock display flashes.
- 2 Within 6 seconds, press ENTER.
The hour flashes in the display.
- 3 Press $\blacktriangleleft\blacktriangleright$ or $\blacktriangleright\blacktriangleright\blacktriangleright$ to set the hour, then press ENTER.
- 4 Press $\blacktriangleleft\blacktriangleright$ or $\blacktriangleright\blacktriangleright\blacktriangleright$ to set the minute.
Each press changes the time in 1-minute steps.
- 5 Press ENTER.
The time display stops flashing and the clock starts from 00 seconds.

To display the time while the power is on

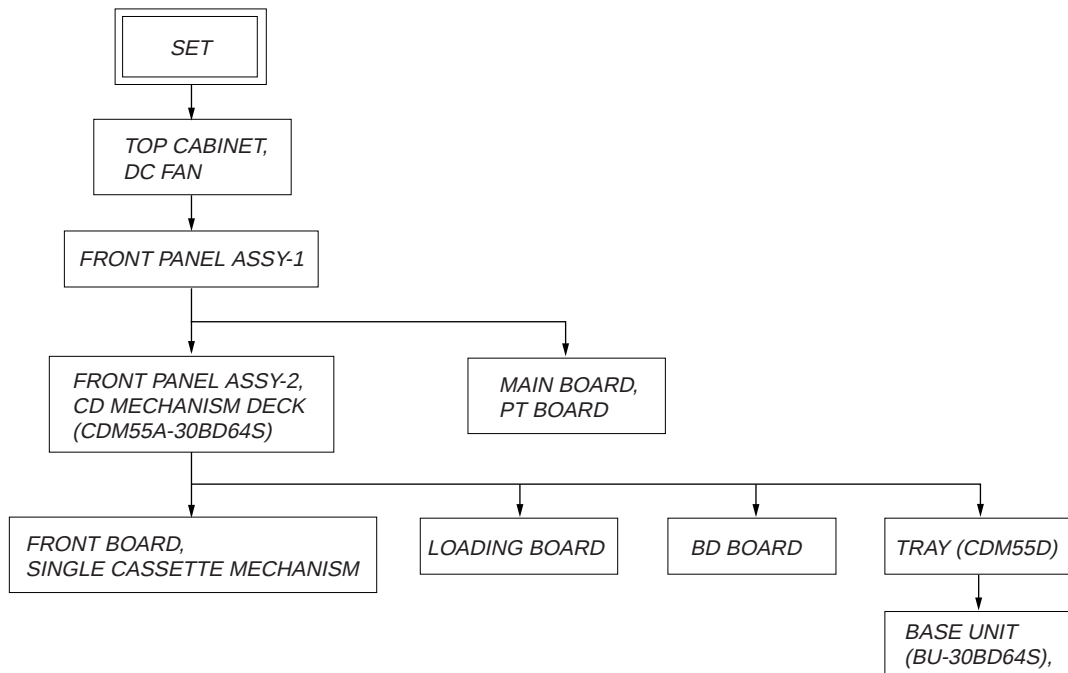
Hold down SHIFT and press CLOCK on the remote.
The time will be displayed for 6 seconds.

If "-: -:" appears when the unit is turned off

There has been a power interruption. Reset the clock.

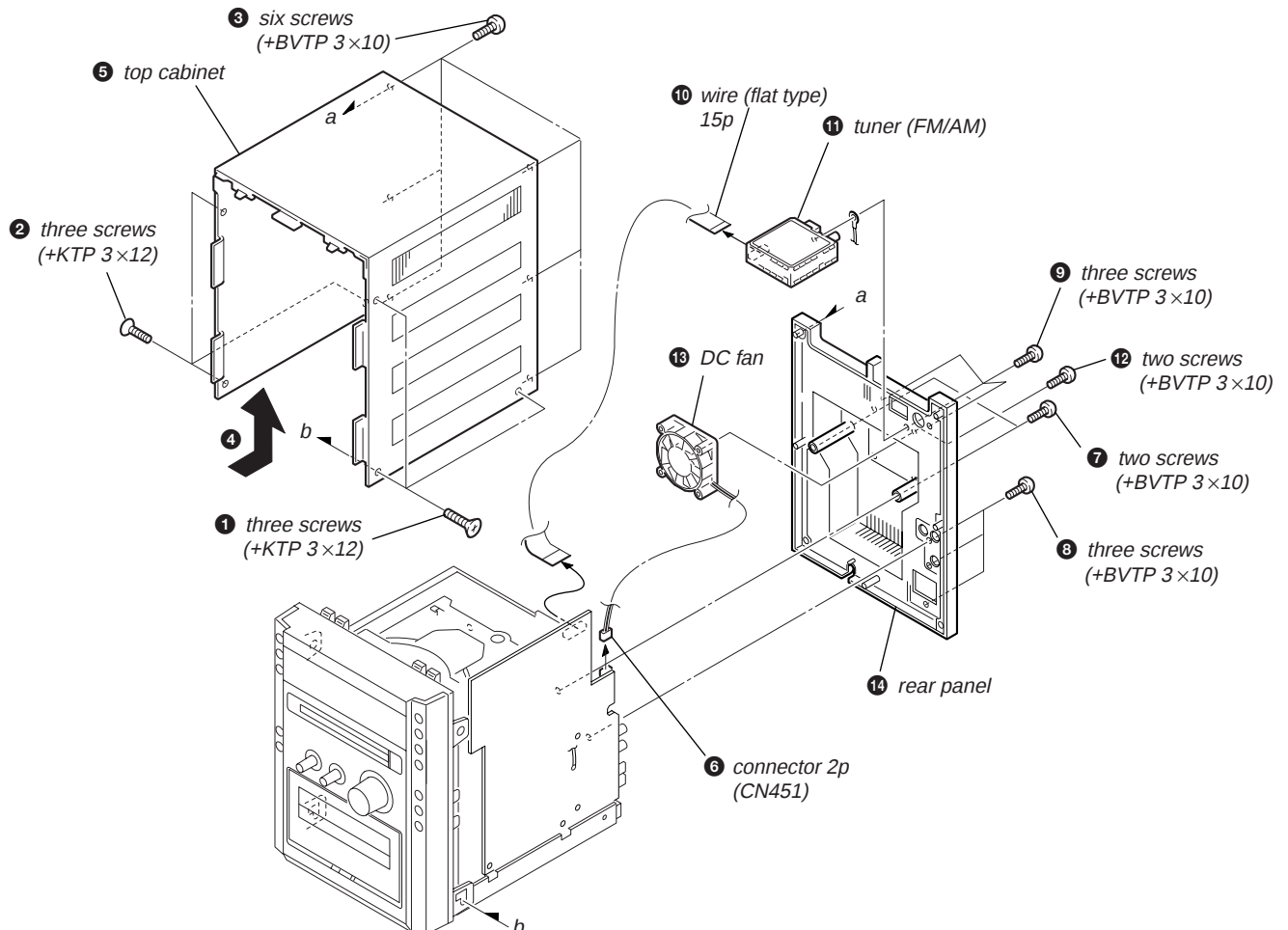
SECTION 3 DISASSEMBLY

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

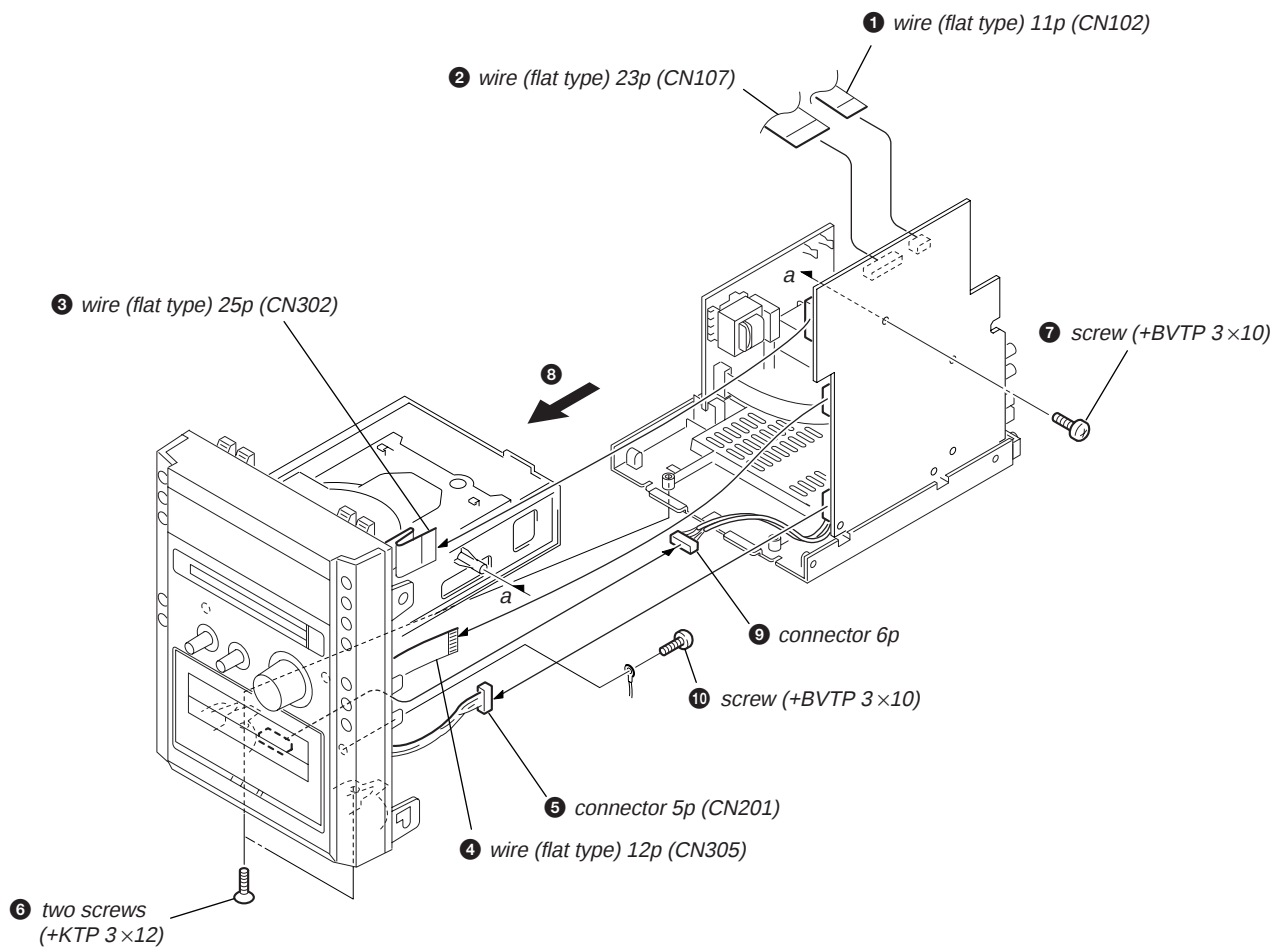


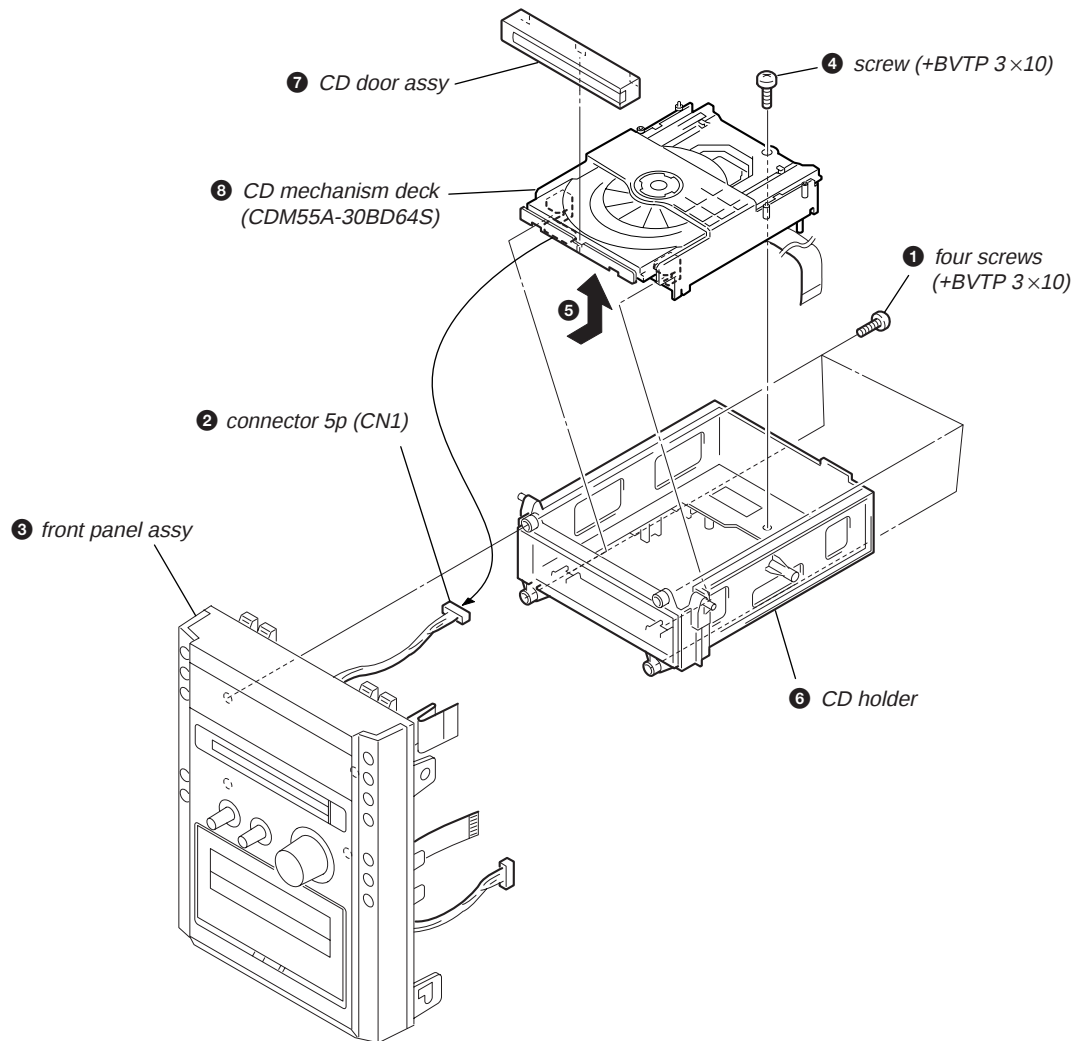
Note: Follow the disassembly procedure in the numerical order given.

3-1. TOP CABINET, DC FAN

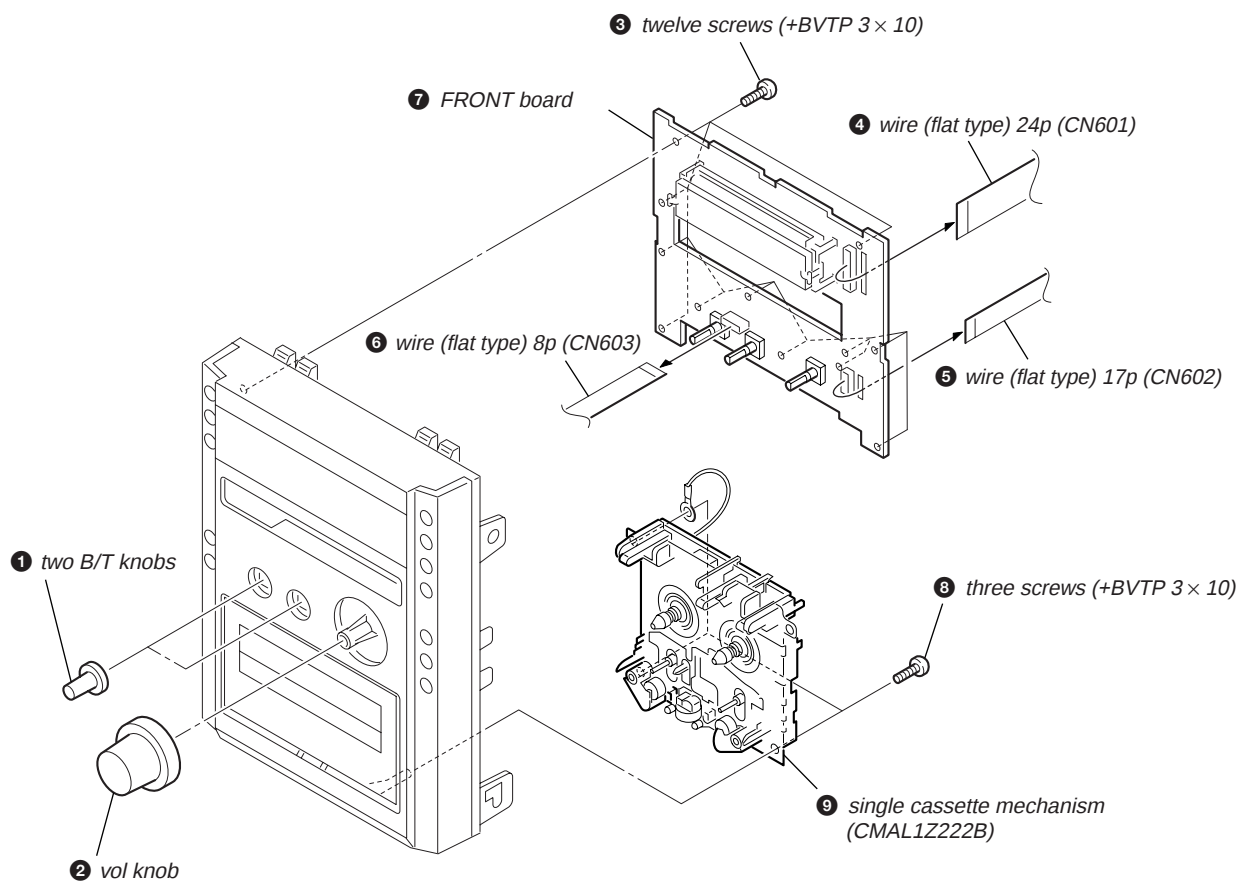


3-2. FRONT PANEL ASSY-1

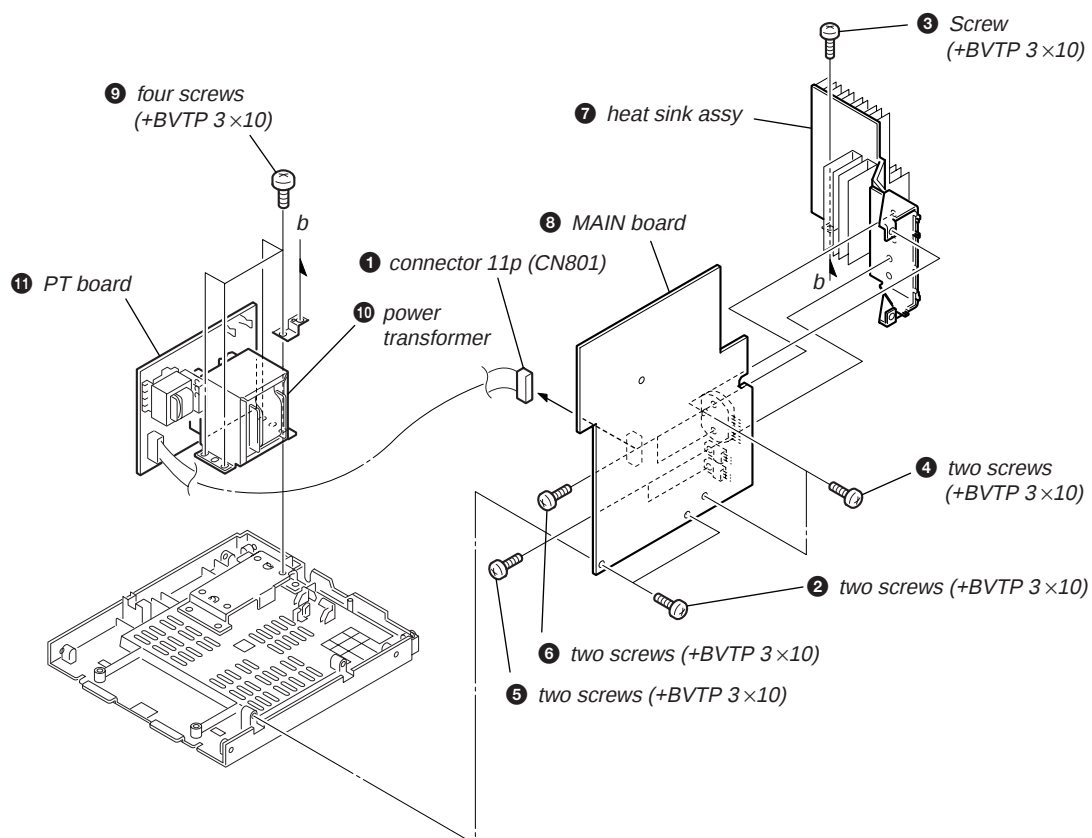


3-3. FRONT PANEL ASSY-2, CD MECHANISM DECK (CDM55A-30BD64S)

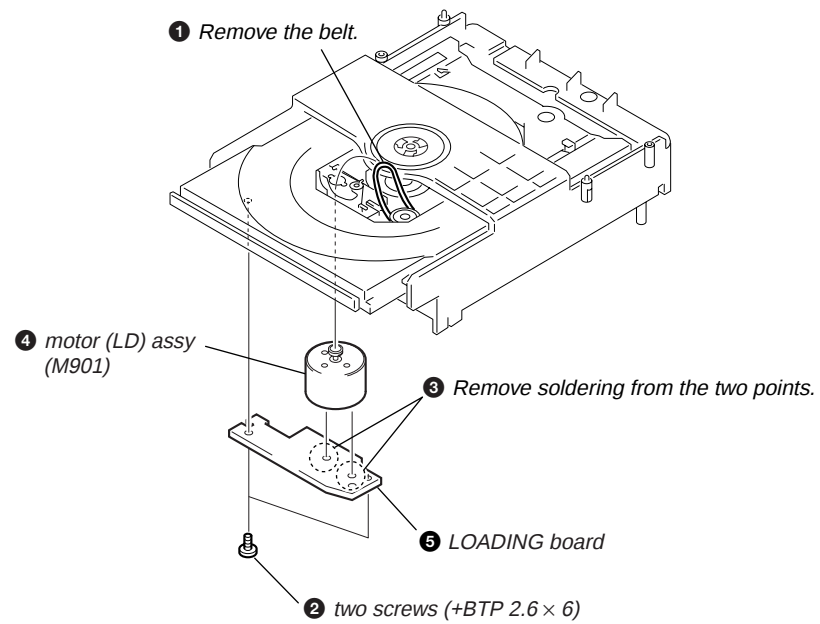
3-4. FRONT BOARD, SINGLE CASSETTE MECHANISM



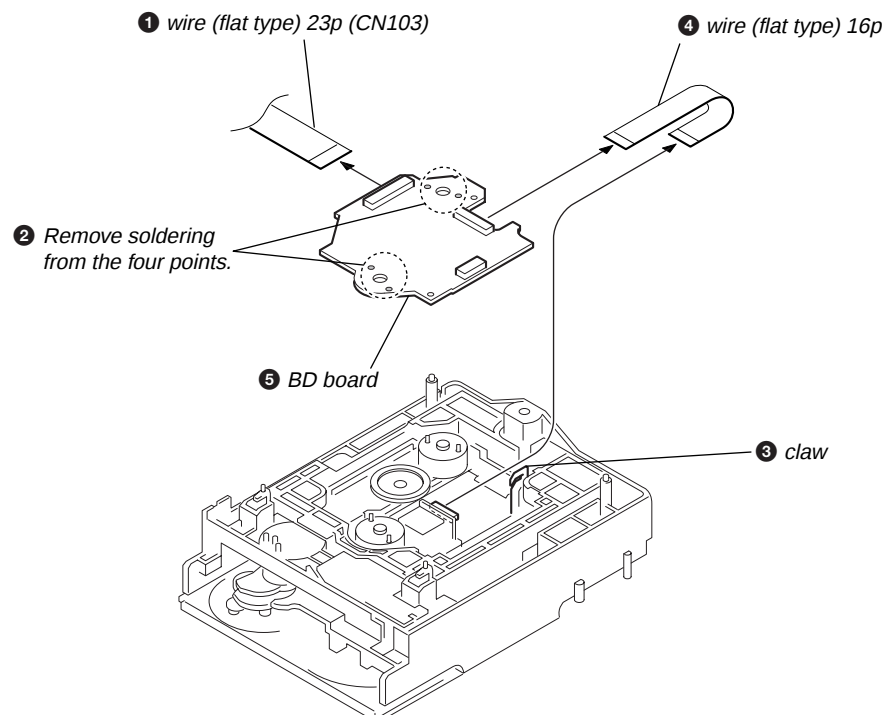
3-5. MAIN BOARD, PT BOARD



3-6. LOADING BOARD

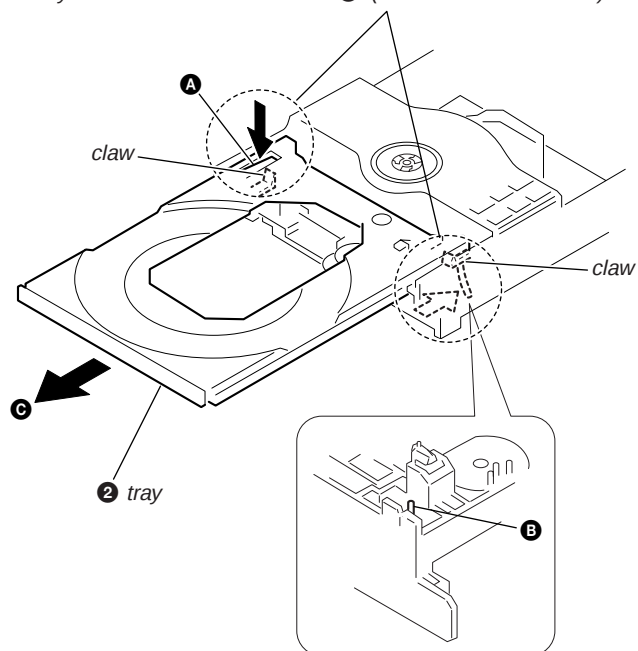


3-7. BD BOARD

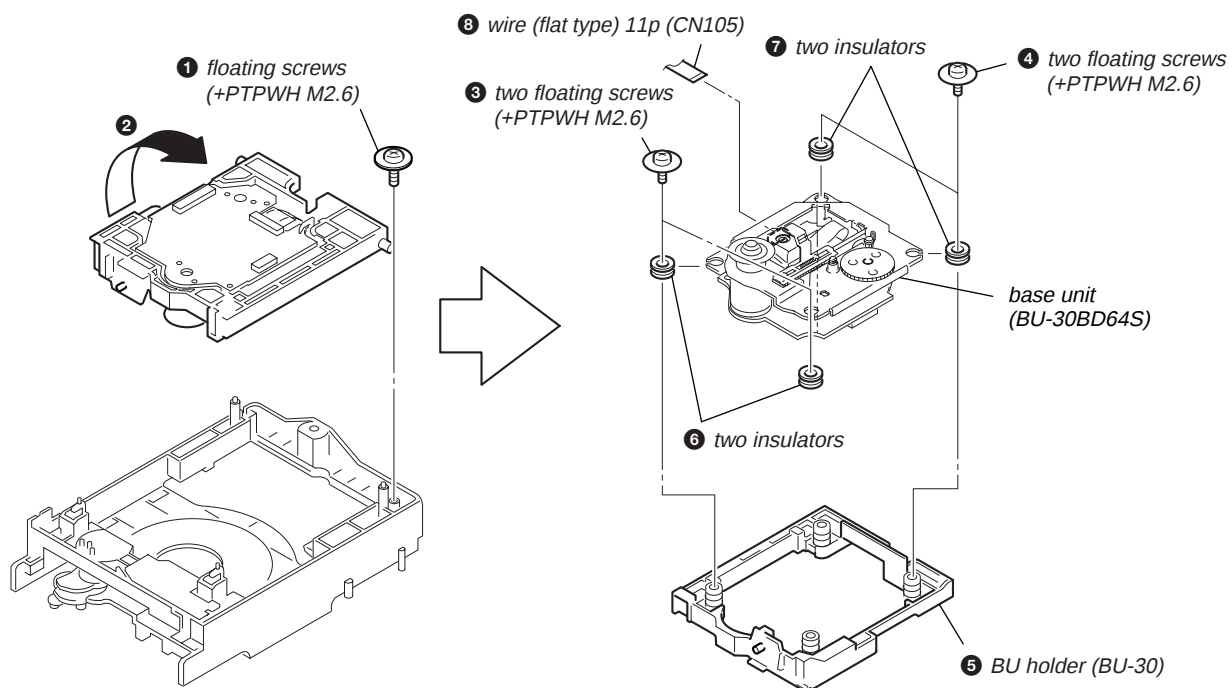


3-8. TRAY (CDM55D)

- ① While pressing the two protrusions **A** and **B** to unlock the two claws as shown, pull the tray in the direction of the arrow **C**. (Be careful of the claws.)



3-9. BASE UNIT (BU-30BD64S)



SECTION 4

TEST MODE

[Cold Reset]

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

Procedure:

1. Press the **[POWER]** button to turn off the main power.
2. While depressing the **[■]** button, press the **[POWER]** button.
3. The fluorescent indicator tube does not display any message and the set is reset.

[Fluorescent Indicator Tube Test Mode]

- * Fluorescent segments are tested when this test is activated.

Procedure:

1. Extract an AC plug.
2. While depressing the **[CD ►||]** button, insert an AC plug.
3. All segments of the fluorescent indicator tube turn on.
4. CD test mode is activated.
5. To exit from this mode, press the **[POWER]** button or disconnect the power cord.

[Version Display Mode]

- * The model and the version are displayed.

Procedure:

1. Press the **[POWER]** button to turn the set on.
2. To enter the test mode, press two buttons **[■]** and **[POWER]** simultaneously for more than five seconds. The model and the version are displayed.

[CD Ship Mode]

- * 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 the **[POWER]** button to turn the set on.
2. Set the function to CD.
3. Press the **[■]** button for more than five seconds.
4. After a message "MECHA LOCK" is displayed on the fluorescent indicator tube, the CD ship mode is set and the power is turned off.

[Disc Tray Lock]

The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Setting Procedure:

1. Press the **[POWER]** button to turn the set on.
2. Press two buttons of **[■]** and **[▲]** (CD EJECT) simultaneously for five seconds.
3. The message "LOCKED" is displayed and the tray is locked.

Releasing Procedure:

1. Press two buttons of **[■]** and **[▲]** (CD EJECT) simultaneously for five seconds again.
2. The message "UNLOCKED" is displayed and the tray is unlocked.

Note: When "LOCKED" is displayed, the tray lock is not released by turning power on/off with the **[POWER]** button.

[AMP Test]

- * This mode is used to check the function of the amplifier.

Procedure:

1. Extract an AC plug.
2. While depressing the **[AUX]** button, insert an AC plug to enter the AMP test mode. The message "AMP TEST" is displayed.
3. The message "Volume MAX" is displayed, when the **[VOLUME]** knob is rotated clockwise. The message "Volume 0" is displayed, when the **[VOLUME]** knob is rotated counterclockwise.
4. Each time the **[BASS]** or **[TREBLE]** knob is turned, the message "EQ MAX", "EQ MIN" or "EQ FLAT" is displayed in this order.
5. To release from this mode, disconnect the AC plug and turn the power off.

[CD Test Mode]

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

Procedure:

1. Extract an AC plug.
2. While depressing the **[CD ►||]** button, insert an AC plug to enter the CD test mode. The message "CD TEST" is displayed.
3. With the CD in stop status, press the **[+ ►►► ►►]** button to move the pickup to outside track, or press the **[◄◄◄ -]** button to inside track.
4. When press the **[CD ►||]** button, normal playback is performed.
5. Each time the **[CD ►||]** button is pressed during normal playback, the tracking servo is switched on or off for checking tracking balance. (see page 17)
6. To exit from this mode, press the **[POWER]** button or disconnect the power cord.

[TC Test Mode]

Procedure:

1. Extract an AC plug.
2. While depressing the **[TAPE ◄◄]** button, insert an AC plug.
3. The message "TC TEST" is displayed and TC test mode is activated.
- * Zero Return
 1. Press the **[+ ►►► ►►]** or **[◄◄◄ -]** button.
 2. The tape is rewound to the counter zero position.
- * Automatic record/playback test
 1. Press the **[REC START/REC PAUSE]** button.
 2. The message "AUX" is displayed and AUX input is selected.
 3. The tape is rewound to the counter zero position and recording is started automatically.
 4. When the **[■]** button is pressed, the tape is rewound to the recording stated point and the set starts playback.
 5. To exit from this mode, press the **[POWER]** button or disconnect the power cord.

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	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
FWD back tension	CQ-102C	0.15 – 0.59 mN • m (2 to 6 g • cm) (0.03 – 0.08 oz • inch)
REV	CQ-102RC	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
REV back tension	CQ-102RC	0.15 – 0.59 mN • m (2 to 6 g • cm) (0.03 – 0.08 oz • inch)
FF/REW	CQ-201B	6.86 – 17.64 mN • m (70 to 179 g • cm) (0.98 – 2.49 oz • inch)
FWD tension	CQ-403A	9.8 mN • m or more (100 g • cm or more) (1.4 oz • inch or more)
REV tension	CQ-403R	9.8 mN • m or more (100 g • cm or more) (1.4 oz • inch or more)

SECTION 6 ELECTRICAL ADJUSTMENTS

DECK SECTION**0 dB=0.775V**

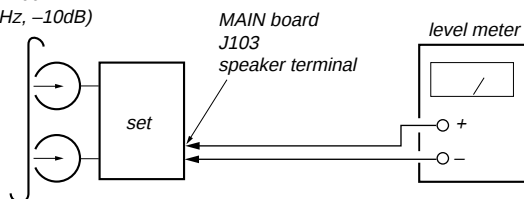
1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
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.

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

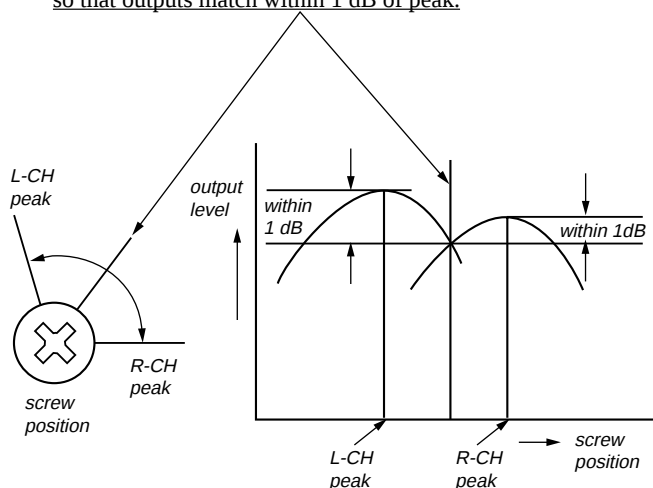
[Record/Playback Head Azimuth Adjustment]**Procedure:**

1. Mode : Playback

test tape
P-4-A100
(10kHz, -10dB)

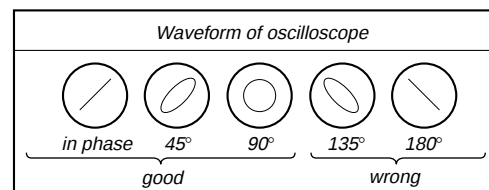
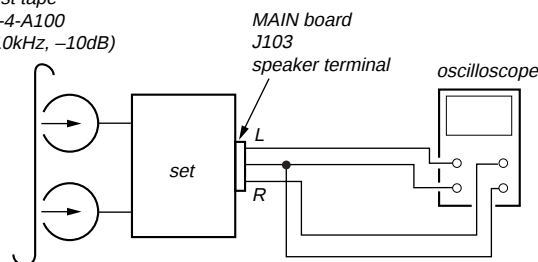


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.



3. Mode: Playback

test tape
P-4-A100
(10kHz, -10dB)



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

Adjustment Location: Record/Playback/Erase Head

[Tape Speed Check]**Procedure:**

1. Turn the power on.
2. Insert the WS-48B into deck.
3. Press the button of deck.
4. Check the reading of frequency counter becomes 3000 ± 90 Hz.

Sample Value of Wow and flutter

W.RMS (JIS) less than 0.3%
(test tape: WS-48B)

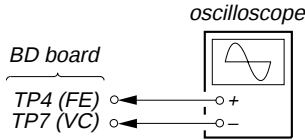
CD SECTION

Note:

1. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
2. Use an oscilloscope with more than 10MΩ impedance.
3. 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

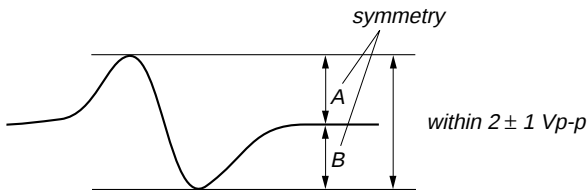
Connection:



Procedure:

1. Connect an oscilloscope to test point TP4 (FE) and TP7 (VC) on the BD board.
2. While depressing the **CD▶||** button, insert an AC plug.
3. Put the disc (YEDS-18) in and press the **STOP■** button and actuate the focus search. (actuate the focus search when disc table is moving in and out)
4. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2 ± 1 Vp-p.

S-curve waveform

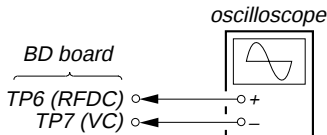


- Note:**
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
 - Take sweep time as long as possible and light up the brightness to obtain best waveform.

Checking Location: BD board (Side B)

RFDC Level Check

Connection:

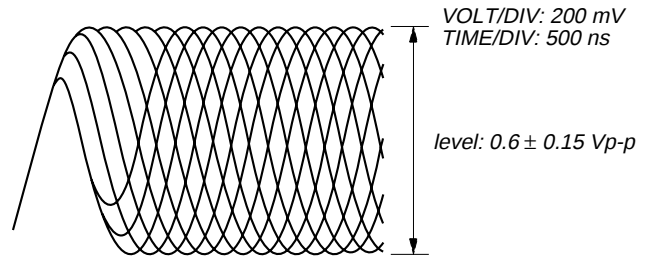


Procedure:

1. Connect an oscilloscope to test point TP6 (RFDC) and TP7 (VC) on the BD 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 RFDC signal level is correct or not.

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

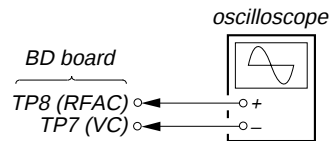
RFDC signal waveform



Checking Location: BD board (Conductor side)

RFAC Level Check

Connection:

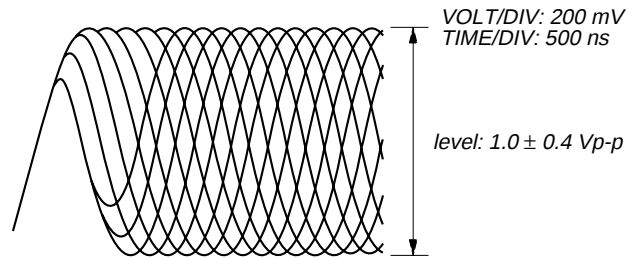


Procedure:

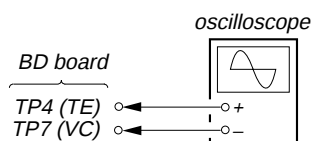
1. Connect an oscilloscope to test point TP8 (RFAC) and TP7 (VC) on the BD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFAC signal level is correct or not.

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

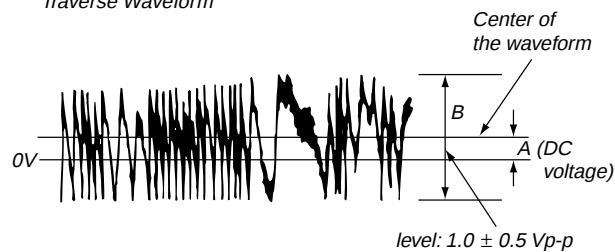
RFAC signal waveform



Checking Location: BD board (Side B)

E-F Balance Adjustment**Connection:****Procedure:**

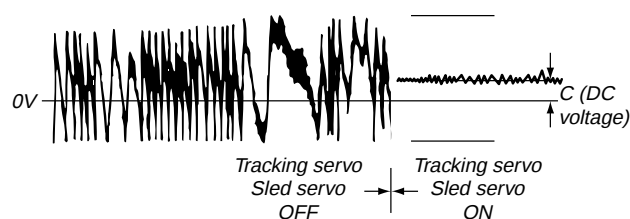
1. Connect an oscilloscope to test point TP4 (TE) and TP7 (VC) on the BD board.
2. While depressing the **[CD ▶||]** button, insert an AC plug to enter the CD test mode.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Press the **[CD ▶||]** button. If it plays, press the **[CD ▶||]** button again. (The tracking servo and the sledding servo are turned OFF)
5. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform. Confirm the following :
 $A/B \times 100 = \text{less than } \pm 10\%$

Traverse Waveform

6. Press the **[CD ▶||]** button. (The tracking servo and sledding servo are turned ON)
 Rotate RV101 on BD board and adjust the C (DC voltage) is almost equal to the A (DC voltage) in step 4.
7. To exit from this mode, turn the power off.

Notes:

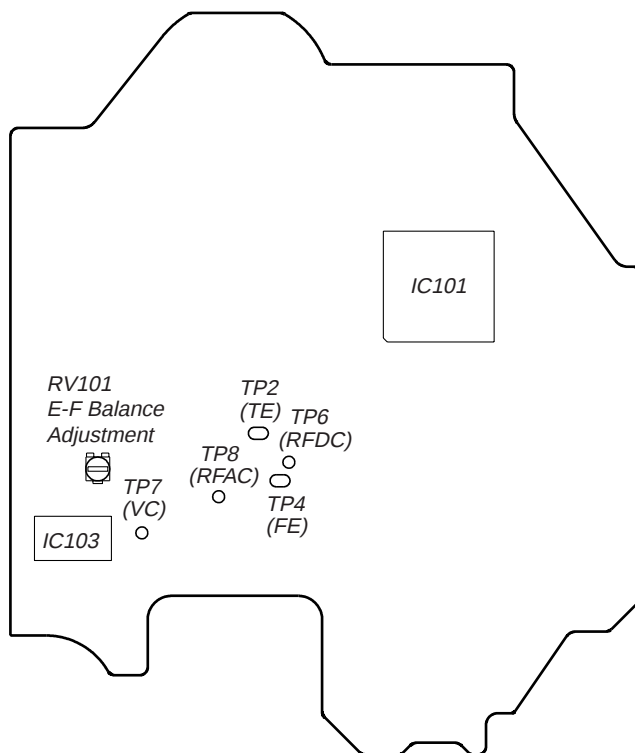
- Always move the optical pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

Traverse Waveform

Checking Location: BD board (Side B)

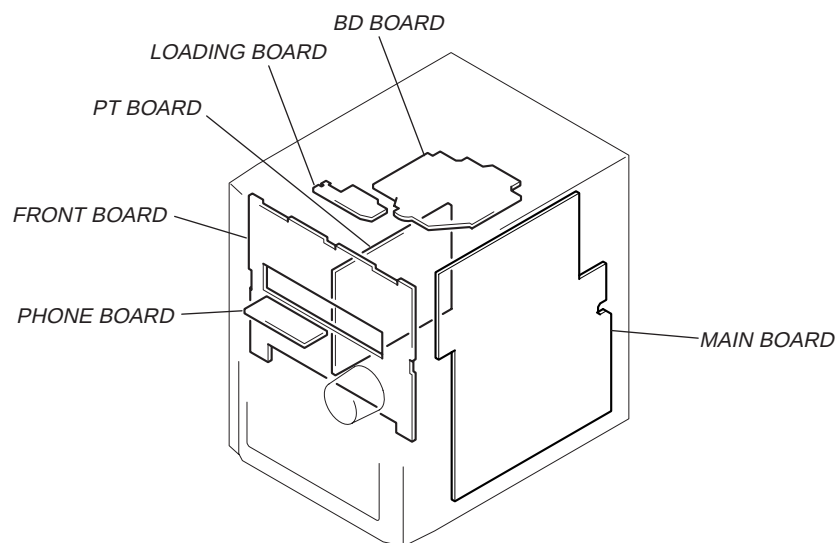
Checking Location:

– BD BOARD (Side B) –



SECTION 7 DIAGRAMS

- **Circuit Boards Location**



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

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

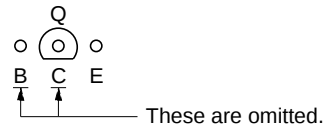
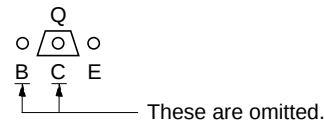
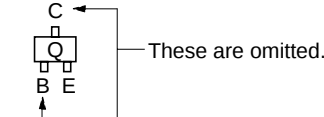
Note: The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

-  : B+ Line.
-  : B- Line.
- Voltages are taken with a VOM (Input impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- **Signal path.**
 -  : TUNER
 -  : CD
 -  : AUX
 -  : PB (TAPE)
 -  : REC (TAPE)

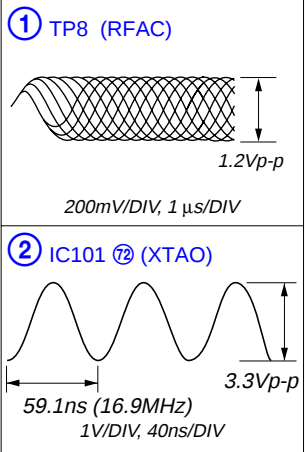
For printed wiring boards.

- Note:**
-  : parts extracted from the component side.
 -  : parts extracted from the conductor side.
 - $\triangle$: internal component.
 -  : Pattern from the side which enables seeing.

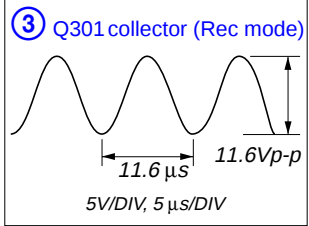
• Indication of transistor



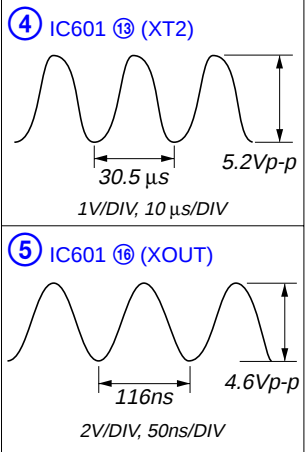
• Waveforms
- BD Board -

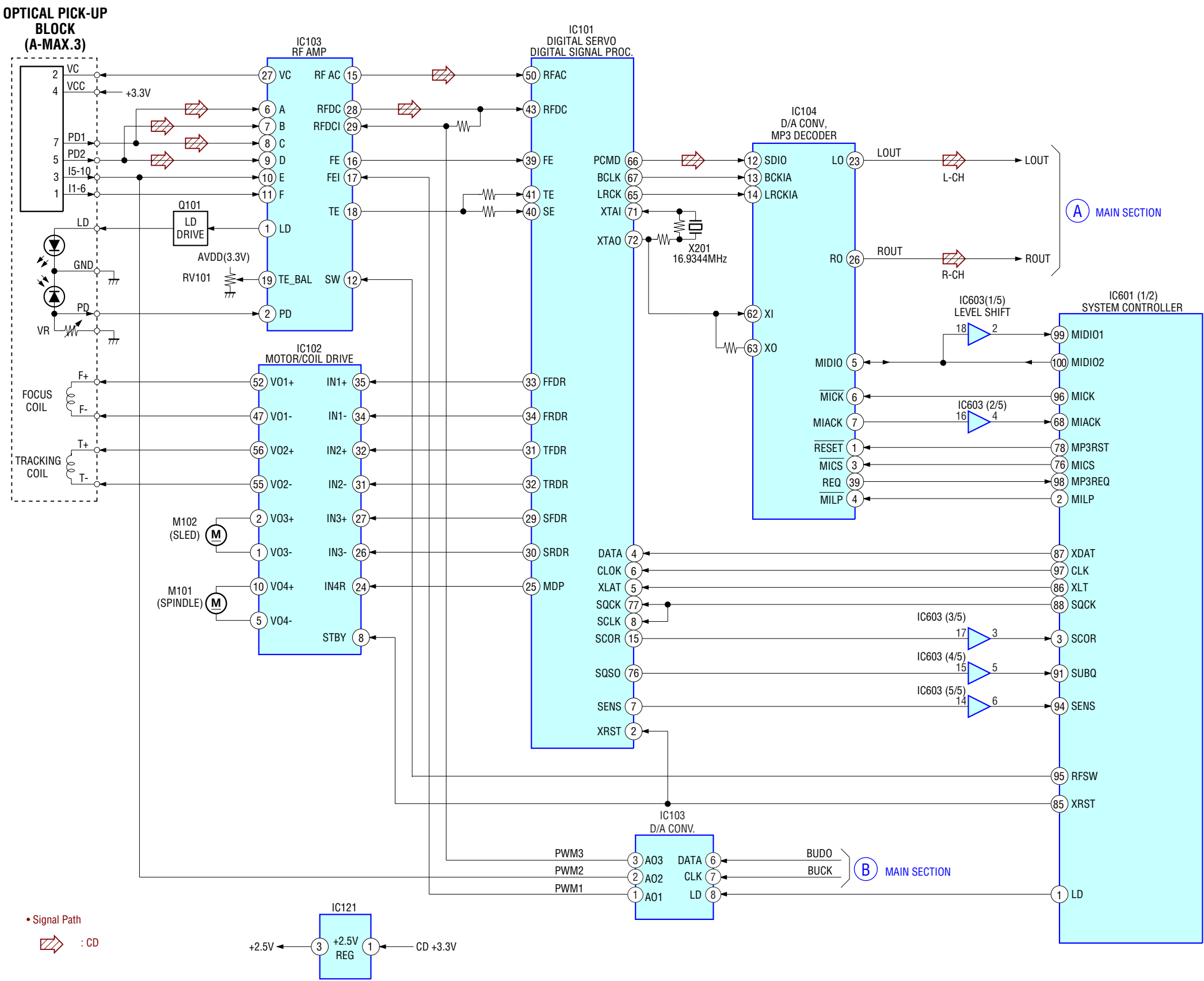


- MAIN Board -

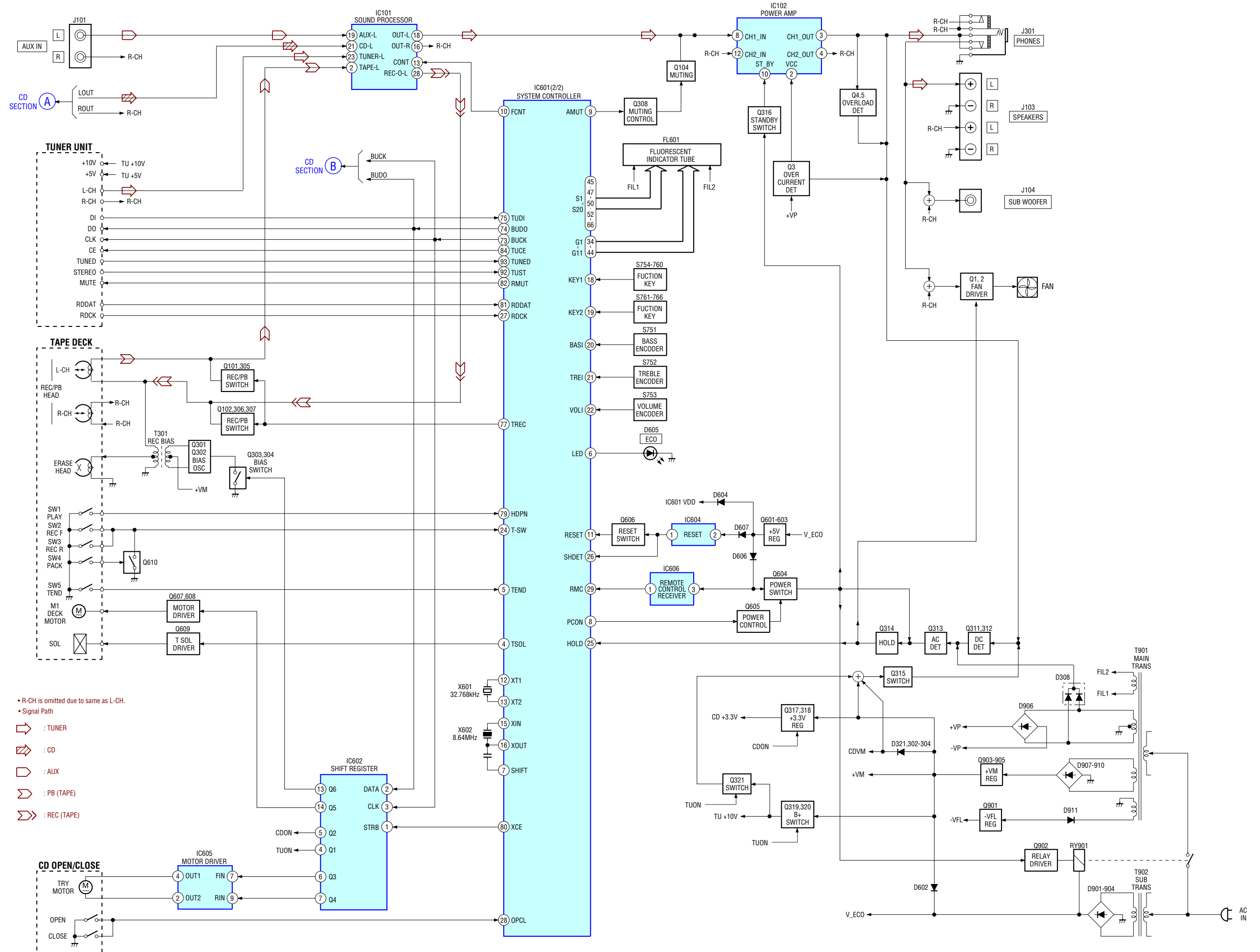


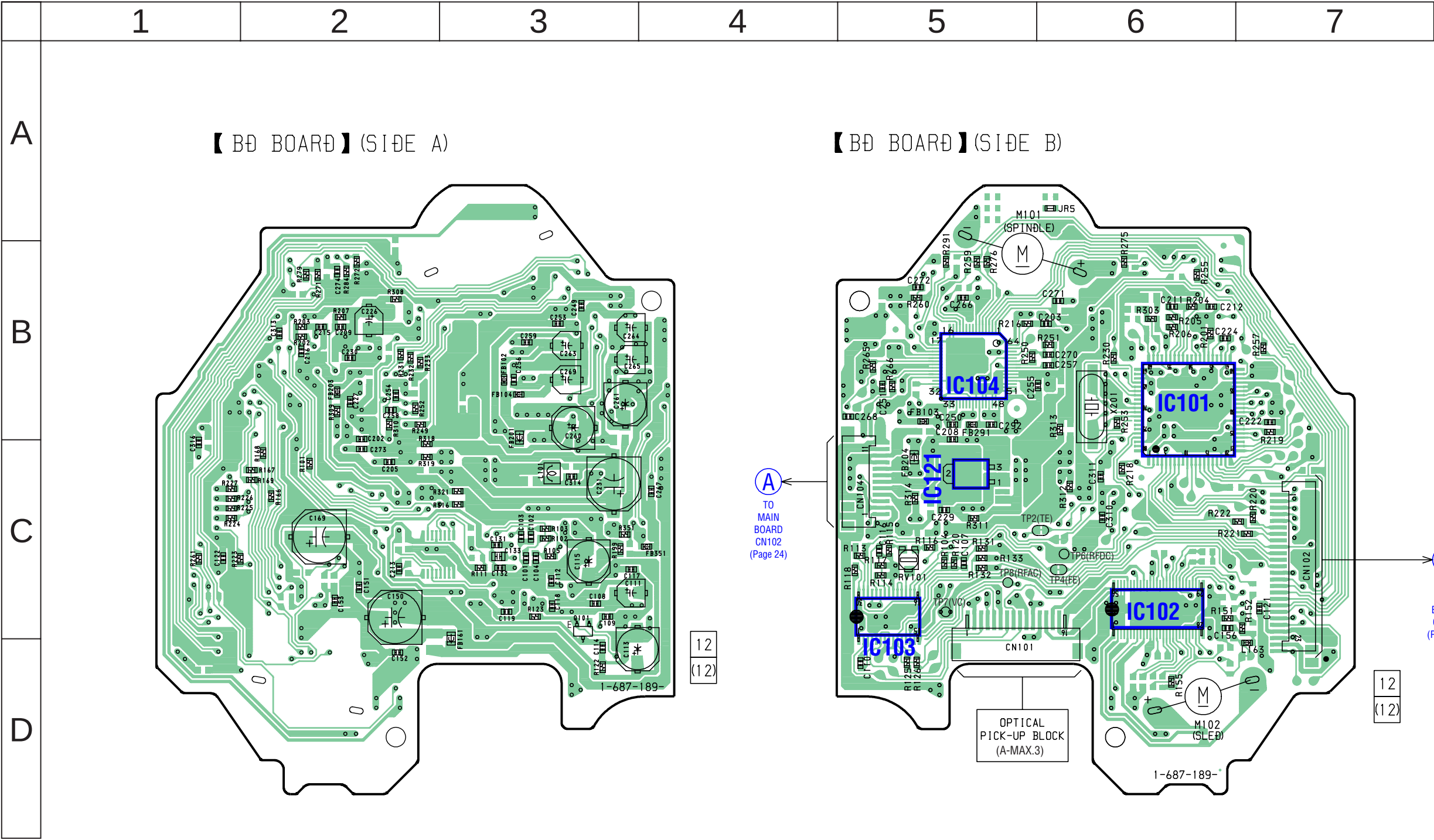
- FRONT Board -





7-2. BLOCK DIAGRAM – MAIN SECTION –

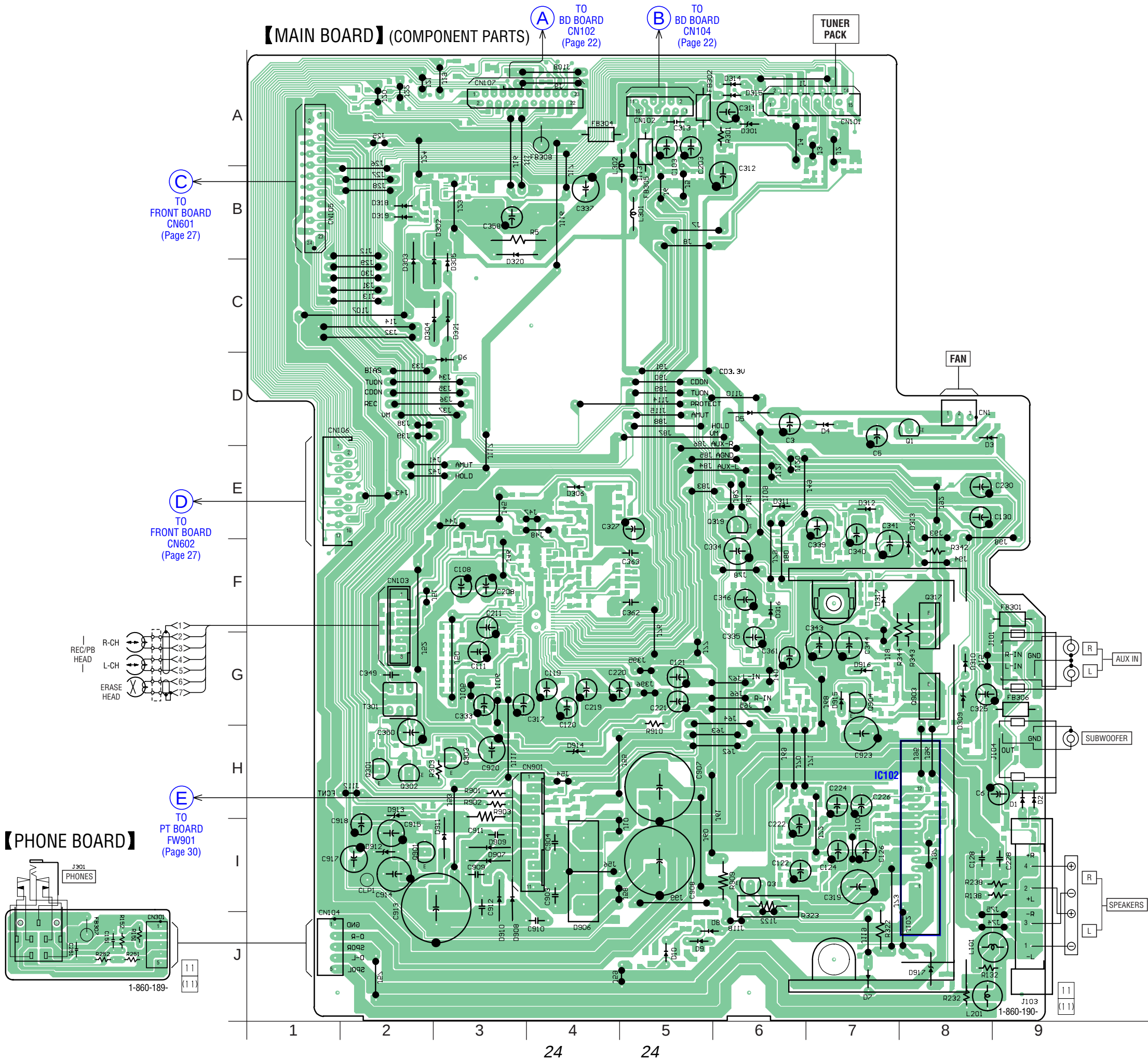




• Semiconductor Location

Ref. No.	Location
IC101	B-6
IC102	C-6
IC103	C-5
IC104	B-5
IC121	C-5
Q101	C-3

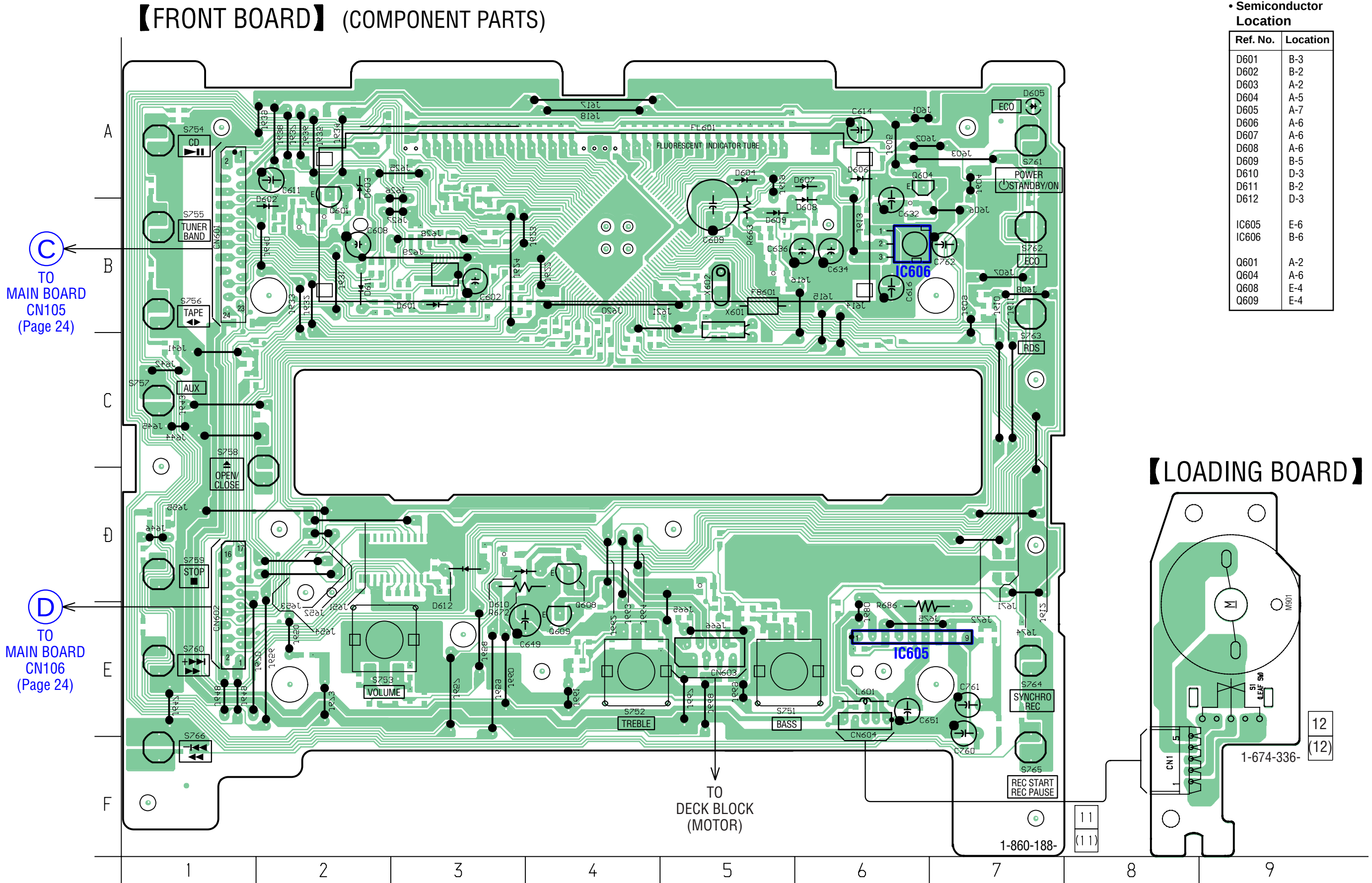


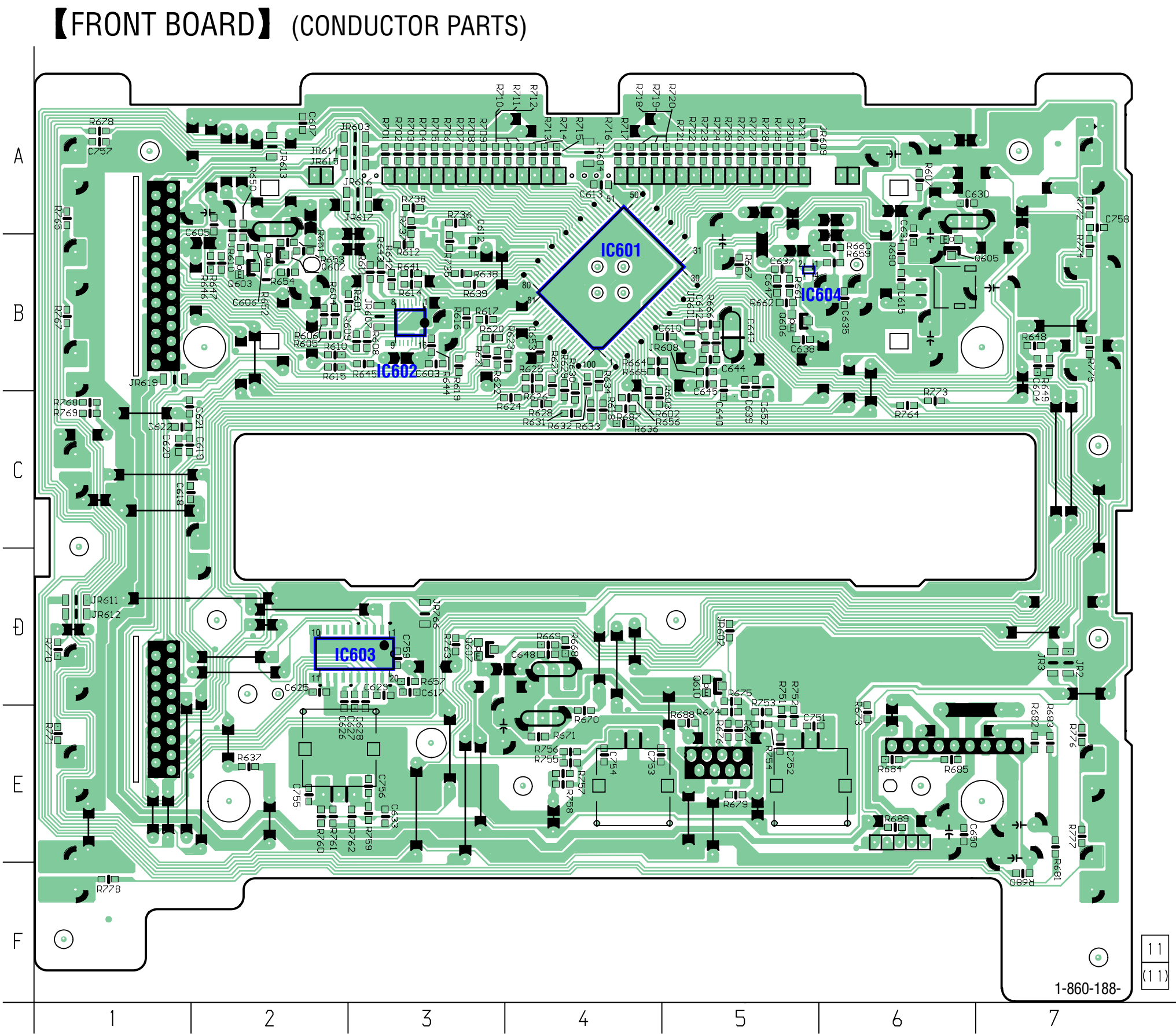


• Semiconductor Location

Ref. No.	Location
D1	H-9
D2	H-9
D3	D-9
D4	D-7
D5	D-6
D6	D-3
D7	J-7
D8	J-5
D9	J-5
D10	J-5
D301	A-6
D302	B-3
D303	B-2
D304	C-2
D305	C-3
D306	E-4
D309	G-8
D310	G-8
D311	E-6
D312	E-7
D313	F-8
D314	A-6
D315	A-6
D316	F-6
D317	F-7
D318	B-2
D319	B-2
D320	B-4
D321	C-3
D907	I-3
D908	I-3
D909	I-3
D910	I-3
D911	I-3
D912	I-2
D913	H-2
D914	H-4
D915	G-7
D916	G-7
IC102	I-8
Q1	D-7
Q3	I-6
Q301	H-2
Q302	H-2
Q303	H-3
Q317	F-8
Q319	E-6
Q901	I-2
Q903	G-8
Q904	G-7



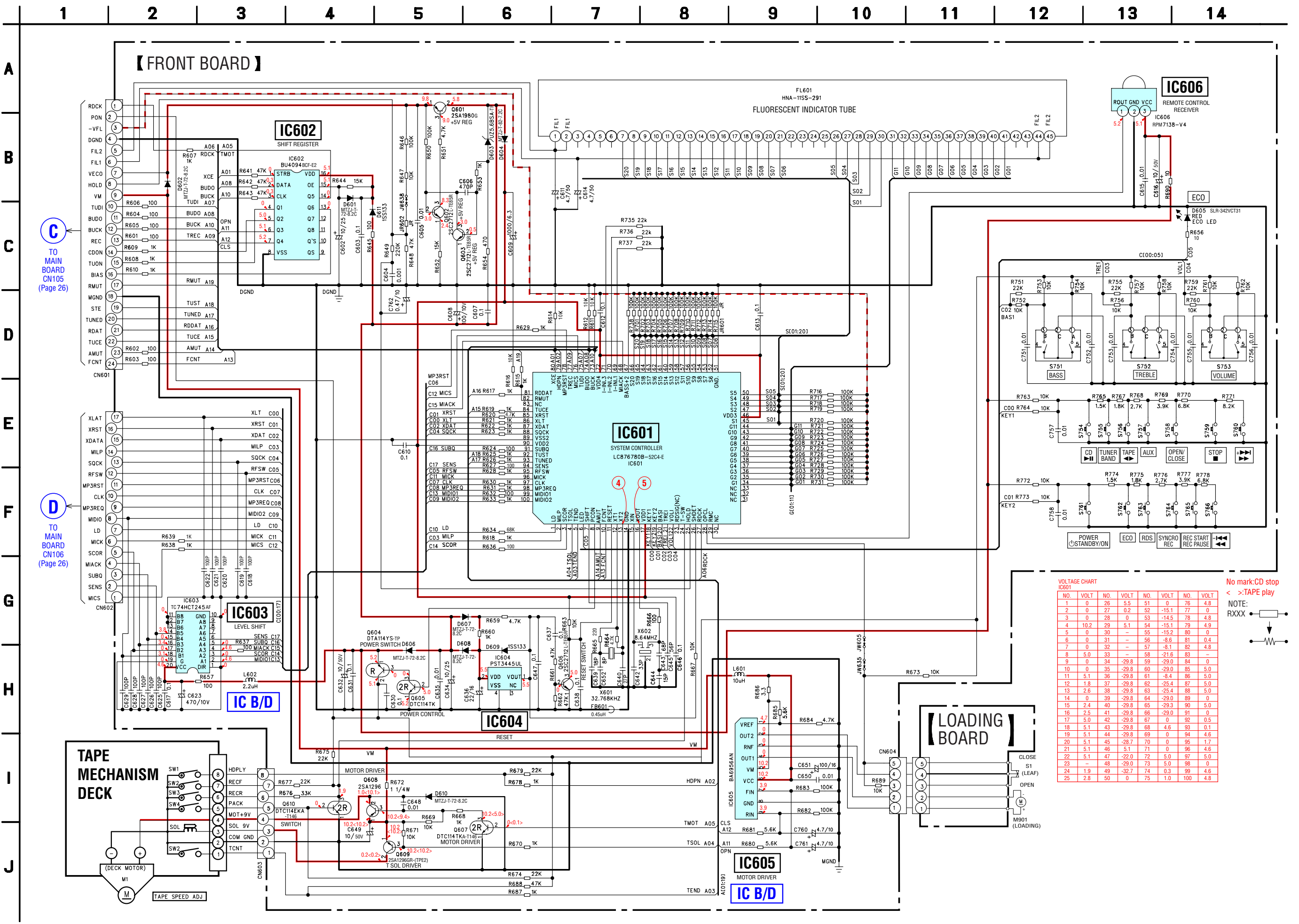




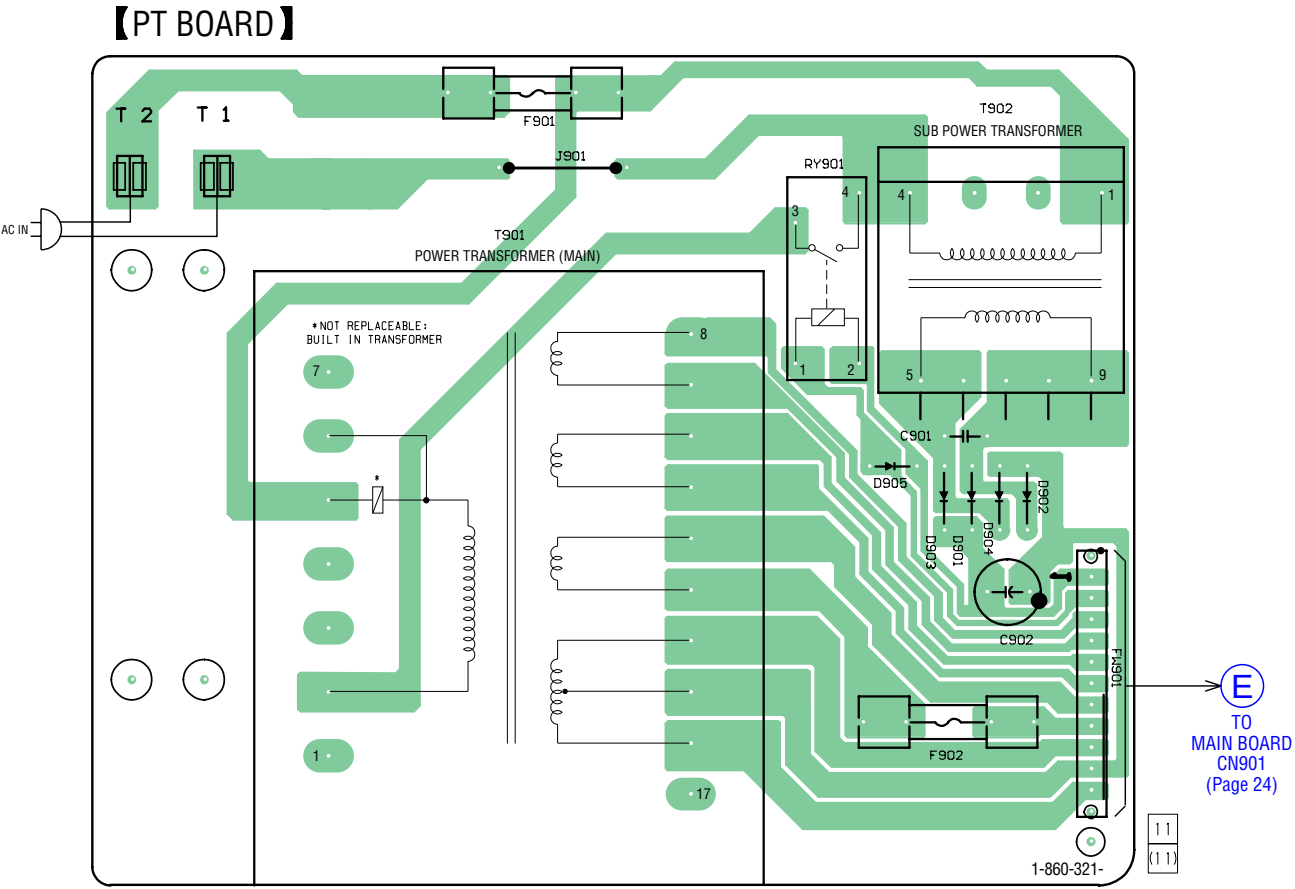
• Semiconductor Location

Ref. No.	Location
IC601	B-4
IC602	B-3
IC603	D-2
IC604	B-5
Q602	B-2
Q603	B-2
Q605	A-6
Q606	B-5
Q607	D-3
Q610	D-5

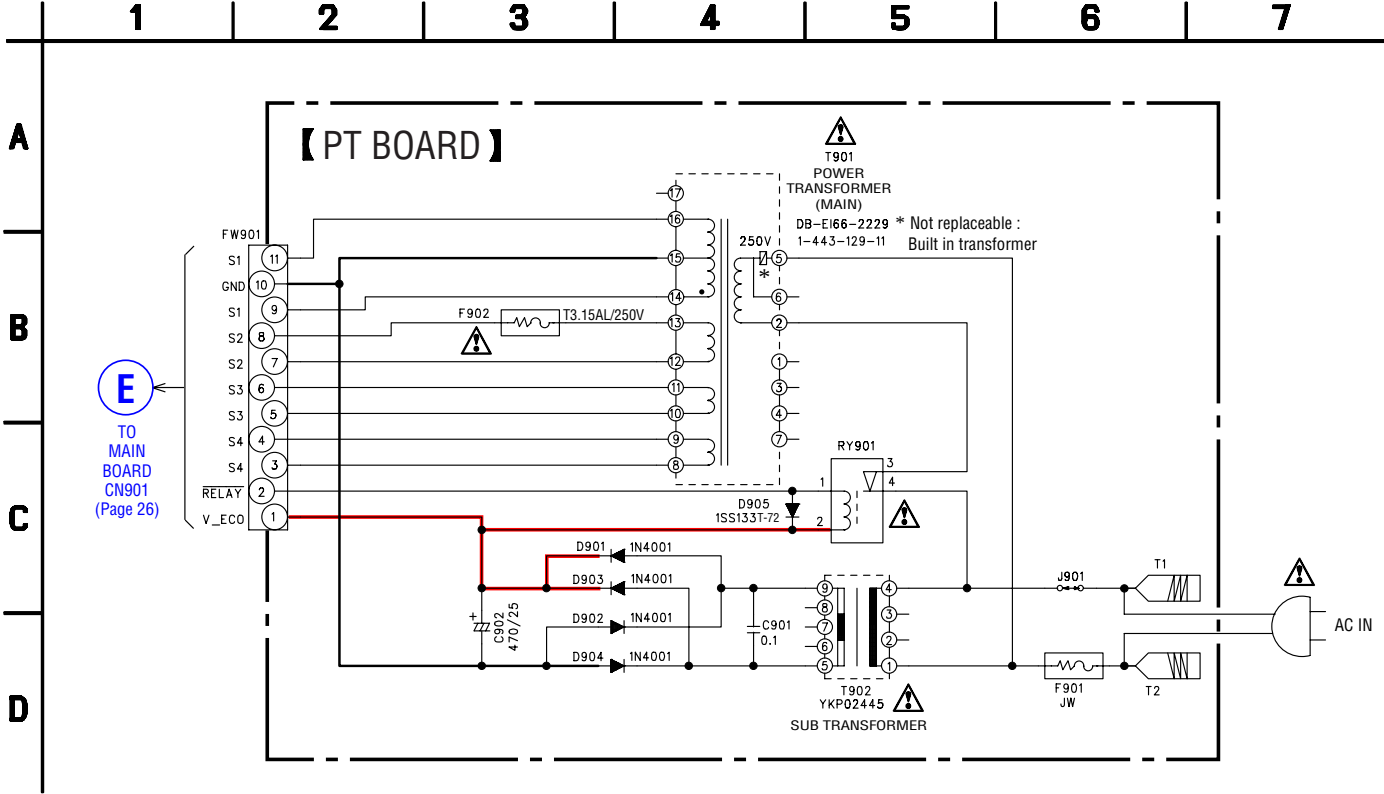
7-10. SCHEMATIC DIAGRAM – FRONT SECTION – • See page 19 for Waveforms. • See page 34 for IC Block Diagrams.



7-11. PRINTED WIRING BOARD – POWER SECTION – • See page 18 for Circuit Boards Location.



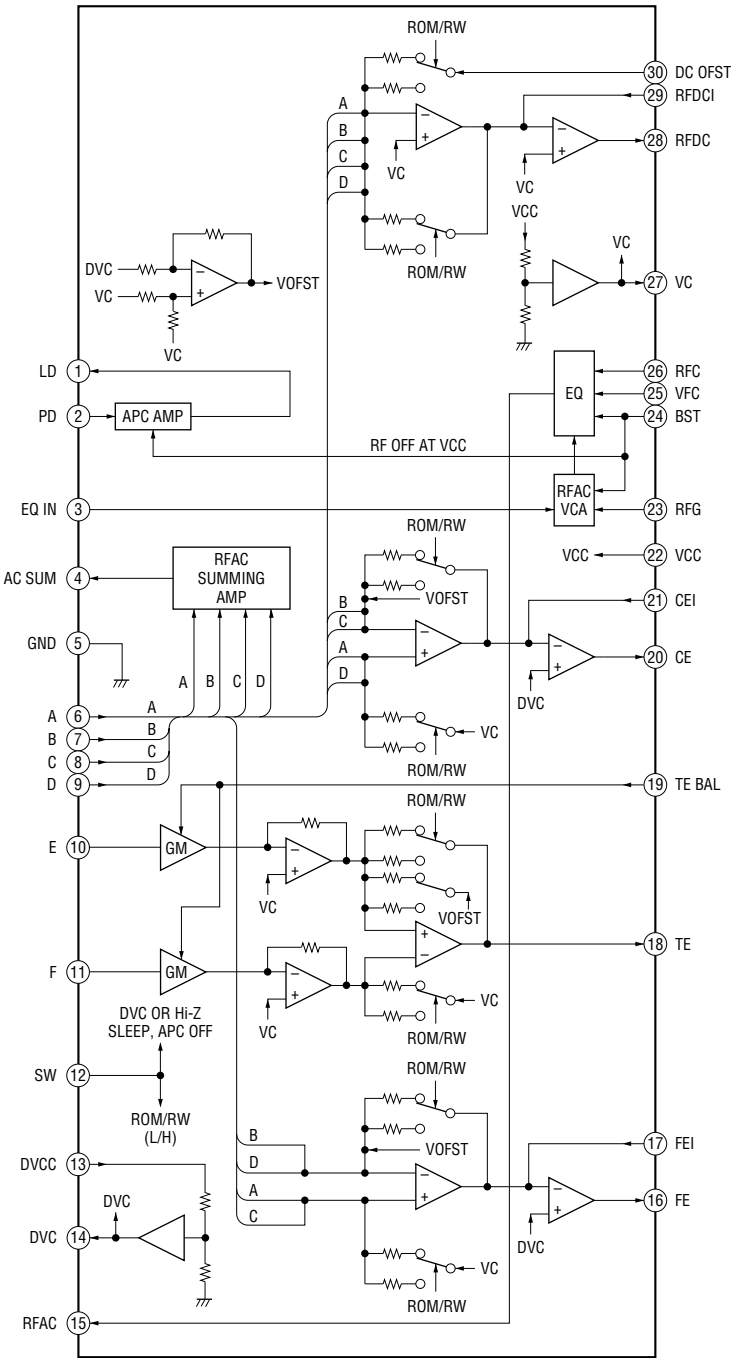
7-12. SCHEMATIC DIAGRAM – POWER SECTION –



The block diagram illustrates the internal architecture of the EXD500Q servo motor control system. Key components include:

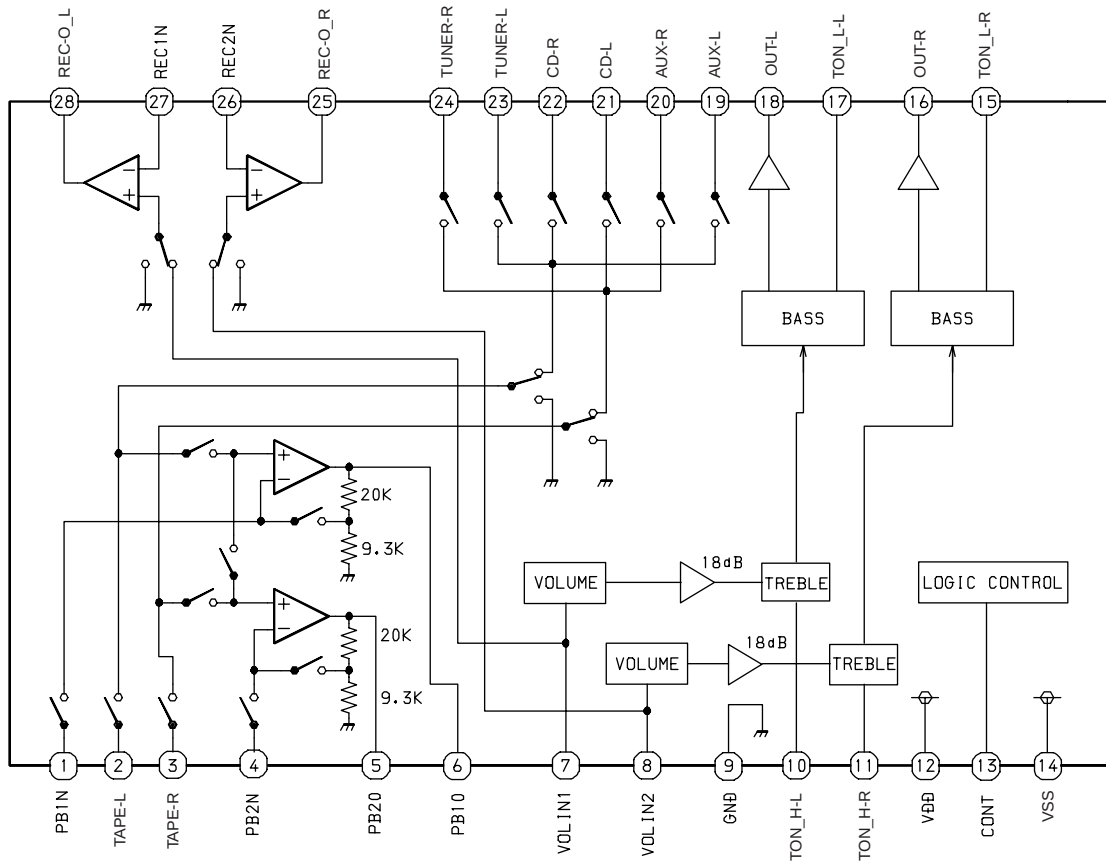
- Input/Output Pins:**
 - Top Pins (1-47):** VPCO, V16M, VCTL, BIAS, AVDD1, PCO, FILI, FILO, CLTV, AVSS1, REAC, ASYL, ASYO, AVDD0, IGEN, AVSS0, ADIO, RFDC, CE, TE.
 - Left Pins (48-75):** DVDD2, ASYE, MD2, DOUT, LRCK, PCMD, BCLK, EMPH, XTSL, DVSS2, XTAI, XTAO, SOUT, SOCK, XOLT.
 - Bottom Pins (76-80):** SQSO, SQCK, SCSY, SBSO, EXCK.
 - Right Pins (81-100):** SE, FE, VC, TES1, TEST, DVSS1, FRDR, FFDR, TRDR, TFDR, SRDR, SFDR, DVDD1, FSTO, SSTP, MDP, LOCK, PWMI, FOK, DFCT.
 - Bottom Pins (101-110):** DVDD0, XRST, MUTE, DATA, XLAT, CLOK, SENS, SCLK, ATSK, WFCX, RFCK, XPCK, GFS, C2PO, SCOR, C4N, WDCX, DVSS, COUT, MIRR.
- Internal Blocks:**
 - CLOCK GENERATOR:** Receives VPCO, V16M, VCTL, and BIAS. Outputs to DIGITAL OUT and DIGITAL PLL.
 - DIGITAL PLL:** Receives PCO, FILI, FILO, CLTV, and AVSS1. Outputs to ASYMMETRY CORRECTOR and SERVO AUTO INTERFACE.
 - ASYMMETRY CORRECTOR:** Receives REAC, ASYL, ASYO, and AVSS1. Outputs to SERVO AUTO INTERFACE.
 - SERVO BLOCK:** Contains an A/D CONVERTER and OPAMP ANALOG SW. Receives IGEN, AVSS0, ADIO, RFDC, CE, and TE. Outputs to SE, FE, VC, TES1, TEST, DVSS1, FRDR, FFDR, TRDR, TFDR, SRDR, SFDR, DVDD1, FSTO, SSTP, MDP, LOCK, PWMI, FOK, DFCT.
 - SERVO DSP:** Contains FOCUS SERVO, TRACKING SERVO, and SLED SERVO. Receives LRCK, PCMD, BCLK, EMPH, XTSL, DVSS2, XTAI, XTAO, SOUT, SOCK, XOLT. Outputs to SERVO AUTO INTERFACE.
 - PWM GENERATOR:** Contains FOCUS PWM GENERATOR, TRACKING PWM GENERATOR, and SLED PWM GENERATOR. Receives signals from SERVO DSP and SERVO AUTO INTERFACE. Outputs to SE, FE, VC, TES1, TEST, DVSS1, FRDR, FFDR, TRDR, TFDR, SRDR, SFDR, DVDD1, FSTO, SSTP, MDP, LOCK, PWMI, FOK, DFCT.
 - SERVO AUTO INTERFACE:** Receives signals from DIGITAL PLL, ASYMMETRY CORRECTOR, SERVO DSP, and PWM GENERATOR. Outputs to SERVO INTERFACE.
 - SERVO INTERFACE:** Receives signals from SERVO AUTO INTERFACE and SERVO BLOCK. Outputs to SE, FE, VC, TES1, TEST, DVSS1, FRDR, FFDR, TRDR, TFDR, SRDR, SFDR, DVDD1, FSTO, SSTP, MDP, LOCK, PWMI, FOK, DFCT.
 - DIGITAL OUT:** Receives signals from CLOCK GENERATOR and DIGITAL PLL. Outputs to MD2, DOUT, LRCK, PCMD, BCLK, EMPH, XTSL, DVSS2, XTAI, XTAO, SOUT, SOCK, XOLT.
 - SUB CODE PROCESSOR:** Receives signals from DIGITAL OUT and CPU INTERFACE. Outputs to SERVO AUTO INTERFACE.
 - CPU INTERFACE:** Receives signals from SQSO, SQCK, SCSY, SBSO, EXCK, DATA, XLAT, CLOK, SENS, SCLK, ATSK, WFCX, RFCK, XPCK, GFS, C2PO, SCOR, C4N, WDCX, DVSS, COUT, MIRR. Outputs to SERVO AUTO INTERFACE.
 - 32K RAM:** Receives signals from CPU INTERFACE and DIGITAL OUT. Outputs to CPU INTERFACE and DIGITAL OUT.
 - ERROR CORRECTOR:** Receives signals from CPU INTERFACE and DIGITAL OUT. Outputs to CPU INTERFACE and DIGITAL OUT.
 - D/A INTERFACE:** Receives signals from CPU INTERFACE and DIGITAL OUT. Outputs to CPU INTERFACE and DIGITAL OUT.
 - DIGITAL CLV:** Receives signals from CPU INTERFACE and DIGITAL OUT. Outputs to CPU INTERFACE and DIGITAL OUT.

IC103 CXA2647N-T4

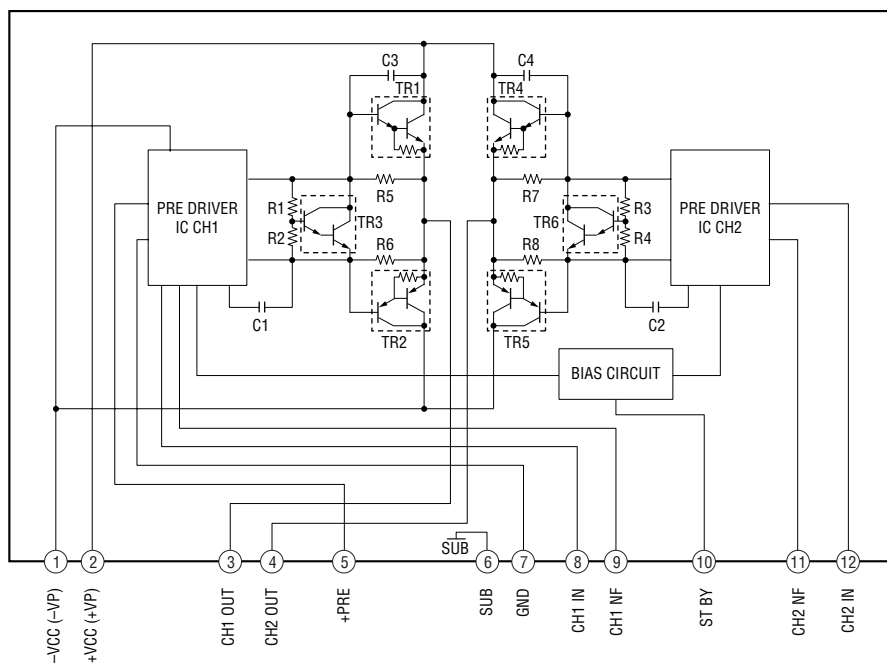


- MAIN Board -

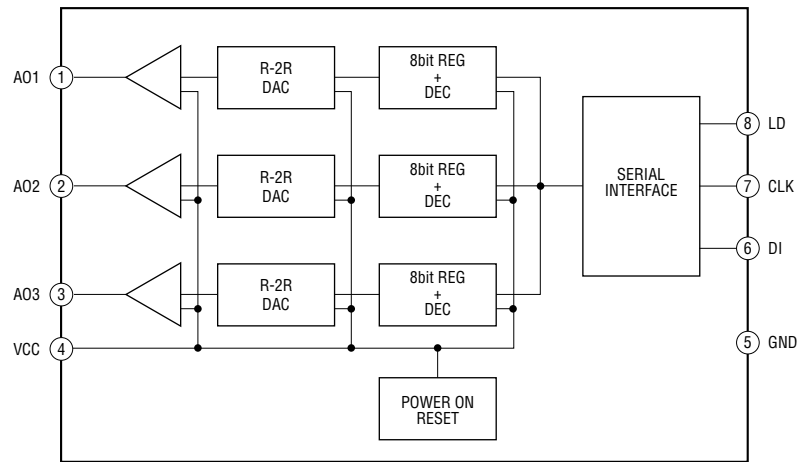
IC101 BD3881FV



IC102 STK403-040

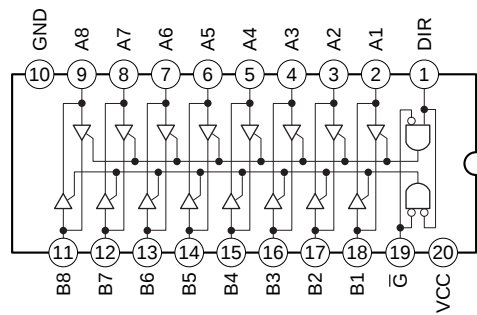


IC103 BH2220FVM-TR

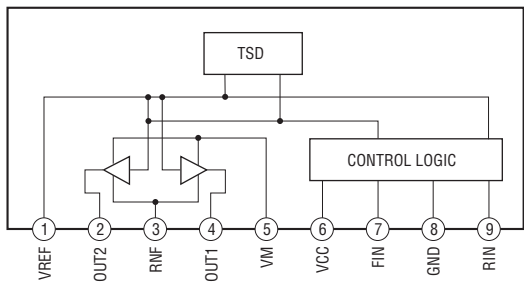


– FRONT Board –

IC603 TC74HCT245AF (EL)



IC605 BA6956AN



7-13. IC PIN FUNCTION DESCRIPTION

IC601 LC876780B-52C4-E (SYSTEM CONTROLLER) (FRONT Board)

Pin No.	Pin Name	I/O	Description
1	LD	O	Serial data load signal output to the D/A converter (IC103)
2	MILP	O	Latch pulse output to the MP3 decoder (IC104)
3	SCOR	I	SCOR (SUBQ request) signal input from the DSP (IC101)
4	TSOL	O	Solenoid control signal output to the tape deck
5	TEND	I	Tape deck reel switch signal input
6	LED	O	Standby LED control signal output
7	SHIFT	O	Clock shift control signal output
8	PCON	O	Main power control signal output
9	AMUT	O	Muting control signal output to the power amplifier
10	FCNT	O	Control signal output to the sound processor
11	RESET	I	Reset signal input from the reset IC (IC604)
12	XT1	I	Resonator terminal (32.768kHz)
13	XT2	O	Resonator terminal (32.768kHz)
14	GND	—	Ground terminal
15	XIN	I	Resonator terminal (8.64MHz)
16	XOUT	O	Resonator terminal (8.64MHz)
17	VDD1	—	Power supply terminal
18	KEY1	I	Key AD input 1
19	KEY2	I	Key AD input 2
20	BASI	I	Encoder signal input from the bass encoder
21	TREI	I	Encoder signal input from the treble encoder
22	VOLI	I	Encoder signal input from the volume encoder
23	RDSIG	I	RDS signal level input from the tuner (not used (open))
24	T-SW	I	Tape switch status signal input from the tape deck (SW2 to 4)
25	HOLD	I	System hold detection signal input
26	SHDET	I	DC detection and short circuit detection signal input
27	RDCK	I	RDS clock input from the tuner
28	OPCL	I	CD door open/close switch signal input
29	RMC	I	Remote sensor signal input
30 to 33	NC	—	Not used (open)
34 to 44	G1 to G11	O	Grid signal output to the fluorescent indicator tube
45	S1	O	Segment signal output to the fluorescent indicator tube
46	VDD3	—	Power supply terminal
47 to 50	S2 to S5	O	Segment signal output to the fluorescent indicator tube
51	GND	—	Ground terminal
52 to 66	S6 to S20	O	Segment signal output to the fluorescent indicator tube
67	BASS+2	—	Not used (fixed at “L”)
68	MIACK	I	Acknowledge signal input from the MP3 decoder (IC104)
69 to 71	I-INI.1 to 3	I	Initial selection signal input
72	VDD4	—	Power supply terminal
73	BUCK	O	Serial clock output to the tuner, the shift register (IC602) and the D/A converter (IC103)
74	BUDO	O	Serial data output to the tuner, the shift register (IC602) and the D/A converter (IC103)
75	TUDI	I	Serial data input from the tuner
76	MICS	O	Chip select signal output to the MP3 decoder (IC104)
77	TREC	O	REC/PLAY control signal output to the REC/PLAY switch circuit
78	MP3RST	O	Reset signal output to the MP3 decoder (IC104)
79	HDPN	I	Play switch signal input from the tape deck
80	XCE	O	Chip enable signal output to the shift register (IC602)
81	RDDAT	I	RDS data input from the tuner
82	RMUT	O	Muting signal output to the tuner

Pin No.	Pin Name	I/O	Description
83	NC	—	Not used (open)
84	TUCE	O	Tuner chip enable signal output to the tuner
85	XRST	O	Reset signal output to the DSP (IC101) and the motor/coil driver (IC102)
86	XLT	O	Latch signal output to the DSP (IC101)
87	XDAT	O	Data output to the DSP (IC101)
88	SQCK	O	SUBQ clock output to the DSP (IC101)
89	VSS2	—	Ground terminal
90	VDD2	—	Power supply terminal
91	SUBQ	I	SUB-Q data input from the DSP (IC101)
92	TUST	I	Stereo/mono detection signal input from the tuner
93	TUNED	I	Tuner tuned status signal input
94	SENS	I	SENS signal input from the DSP (IC101)
95	RFSW	O	LD ON signal output to the RF amplifier (IC103)
96	MICK	O	Clock output to the MP3 decoder (IC104)
97	CLK	O	Clock output to the DSP (IC101)
98	MP3REQ	I	Request signal input from the MP3 decoder (IC104)
99	MIDIO1	I	Data input from the MP3 decoder (IC104)
100	MIDIO2	O	Data output to the MP3 decoder (IC104)

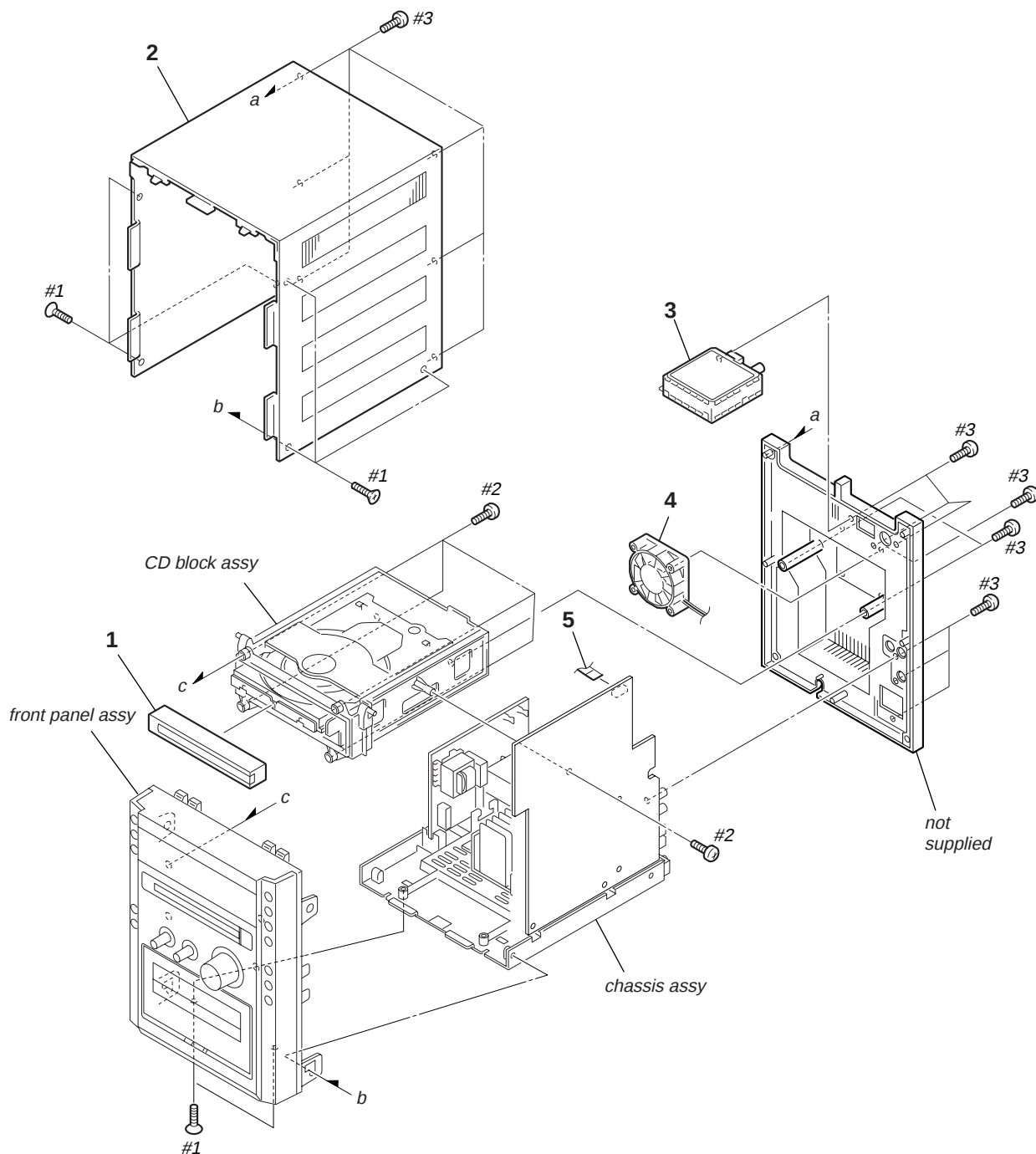
SECTION 8 EXPLODED VIEWS

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.

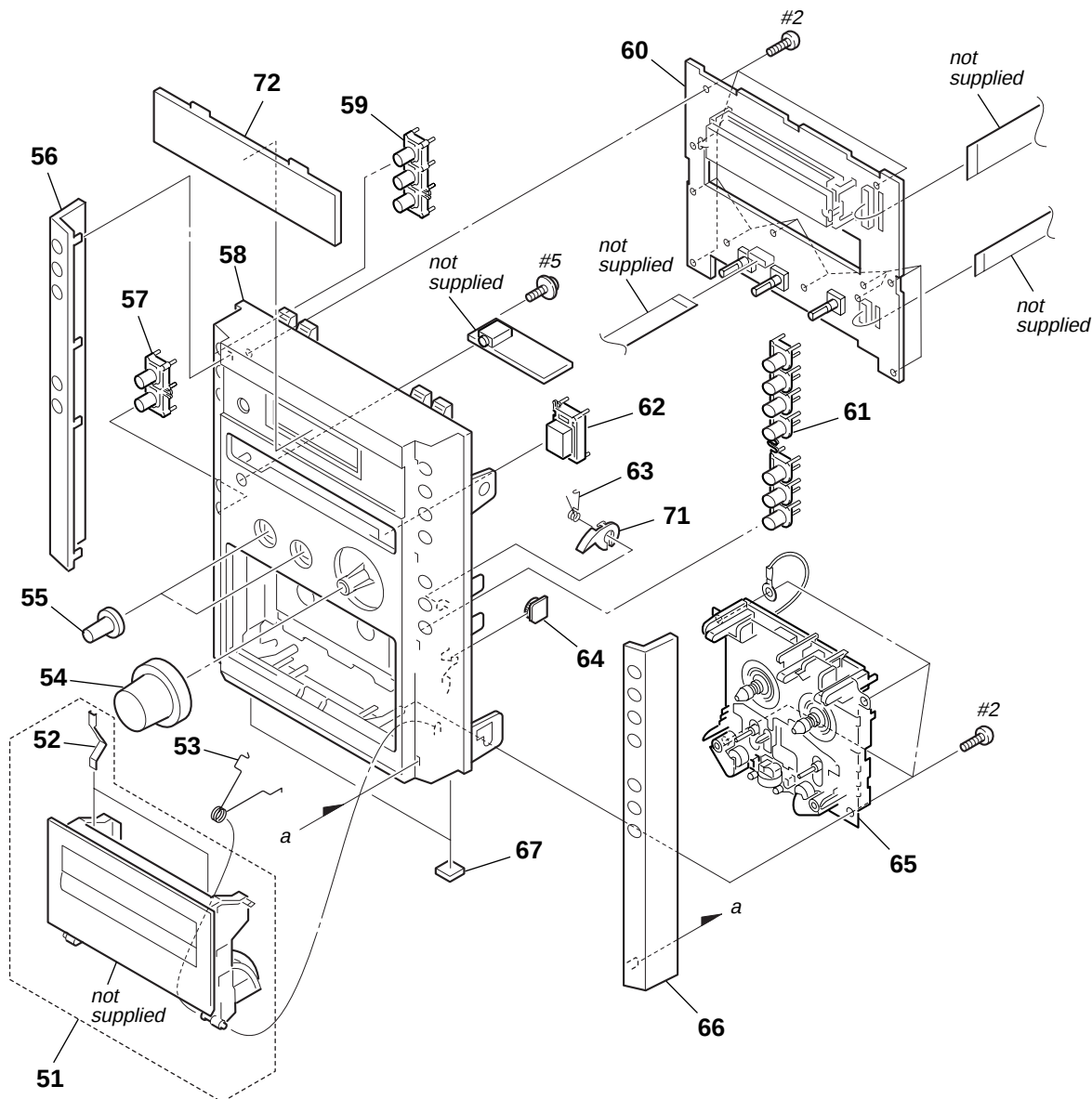
The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

8-1. OVERALL SECTION



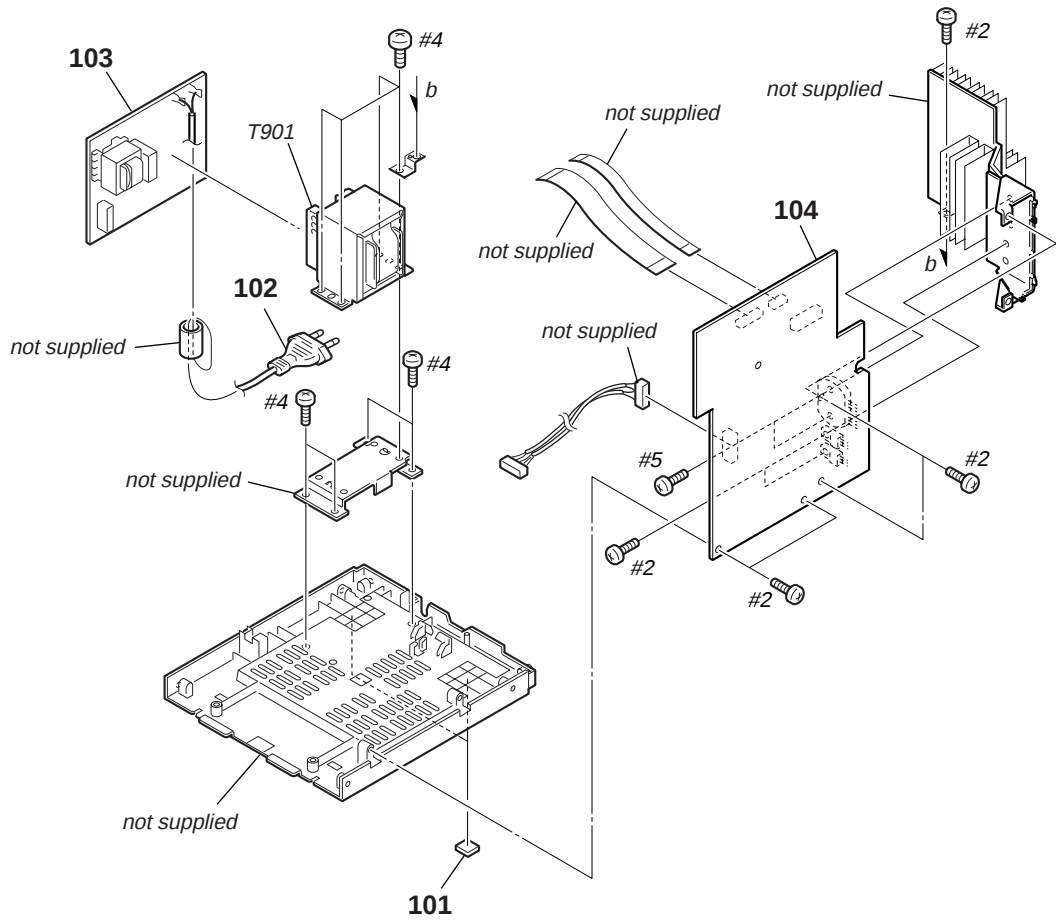
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	A-4737-500-A	CD DOOR ASSY		5	1-773-009-11	WIRE (FLAT TYPE) (15 CORE)	
2	4-247-756-41	CABINET, TOP		#1	7-685-248-14	SCREW +KTP 3X12 TYPE2 NON-SLIT	
3	1-693-619-11	TUNER (FM/AM)		#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
4	1-763-697-21	DC FAN		#3	7-685-647-14	SCREW +BVTP 3X10 TYPE2 N-S	

8-2. FRONT SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	A-4737-496-A	HOLDER CASSETTE ASSY (X)		62	4-245-222-01	BUTTON,CD	
52	4-238-631-01	TAPE SPRING		63	4-231-841-01	SPRING (HEART CAM-B)	
53	4-247-757-01	SPR-T,CASS		64	4-242-318-01	OIL-DMP, 70	
54	4-245-233-01	KNOB VOL		65	1-796-351-51	MECHANISM, SINGLE CASSETTE	
55	4-245-223-01	KNOB,B/T		66	4-245-225-01	PANEL,R	
56	4-245-226-01	PANEL,L		67	4-247-752-01	RUBBER, FOOT	
57	4-245-221-01	BUTTON,REC		71	4-231-825-01	CAM (B), HEART	
58	4-245-217-31	PANEL, FRONT		72	4-245-227-11	WINDOW,DISPLAY	
59	4-245-220-01	BUTTON,POWER		#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
60	A-4748-734-A	FRONT BOARD, COMPLETE		#5	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
61	4-245-219-01	BUTTON,FUNCTION					

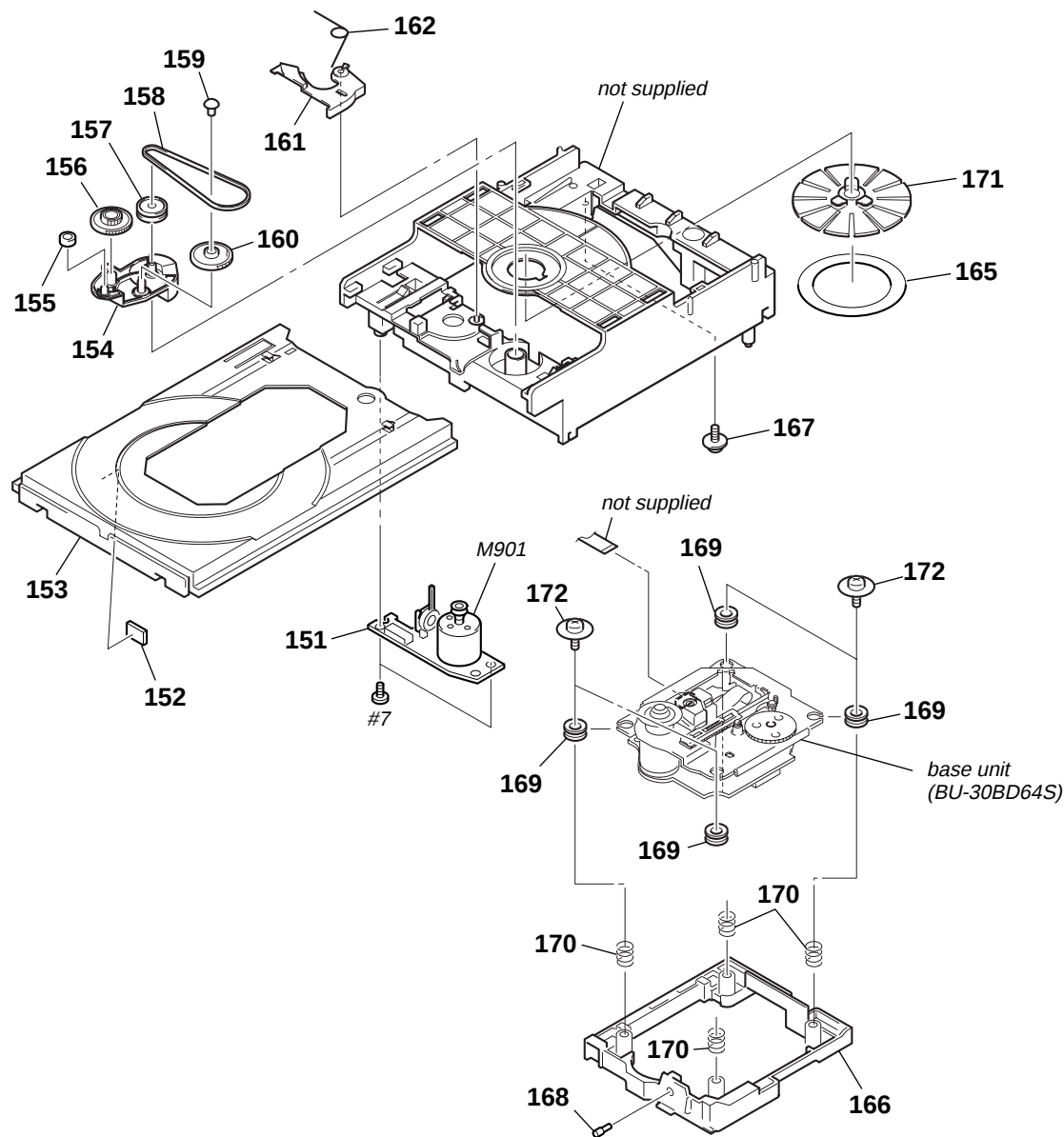
8-3. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	4-247-752-01	RUBBER, FOOT		△ T901	1-443-129-11	TRANSFORMER, POWER	
△ 102	1-555-795-00	CORD, POWER		#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
103	1-860-321-11	PT BOARD		#4	7-682-561-09	SCREW +B 4X8	
104	A-4748-735-A	MAIN BOARD, COMPLETE		#5	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	

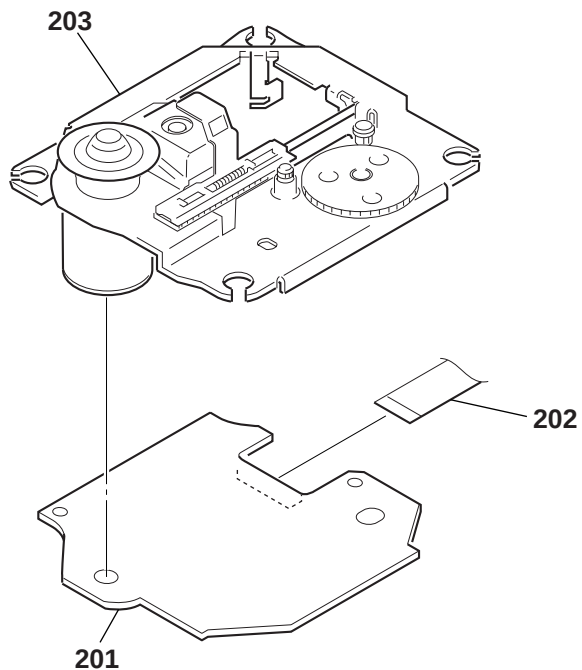
The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

8-4. CD MECHANISM DECK SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	1-674-336-12	LOADING BOARD		162	4-220-239-01	SPRING, TORSION	
152	4-925-315-31	DAMPER		165	4-231-777-02	SHEET (KH2)	
153	4-224-894-22	TRAY (CDM55D)		166	4-238-004-01	HOLDER (BU-30), BU	
154	4-220-233-01	CAM (CDM55)		167	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
155	4-221-815-11	ROLLER		168	4-229-358-01	SHAFT (BU21)	
156	4-220-237-01	GEAR (A)		169	4-231-451-01	INSULATOR (BU-30)	
157	4-220-234-01	PULLEY (LDG)		170	4-227-045-31	SPRING (INSULATOR), COIL	
158	4-221-816-01	BELT (CDM55)		171	X-4954-597-1	PULLEY (AT-2) ASSY	
159	4-227-598-01	SPACER (55)		172	4-227-899-01	SCREW (DIA. 12), FROATING	
160	4-220-238-01	GEAR (B)		M901	A-4735-337-A	MOTOR (LD) ASSY	
161	4-220-229-02	LEVER (SW)		#7	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	

8-5. BASE UNIT SECTION (BU-30BD64S)



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
201	A-4734-549-A	BD BOARD, COMPLETE	
202	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)	
△ 203	A-4735-189-A	BU-30(61) ASSY	

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

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

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

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
	A-4734-549-A	BD BOARD, COMPLETE *****		C249	1-164-360-11	CERAMIC CHIP 0.1uF	16V
		< CAPACITOR >		C250	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C101	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V	C251	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C102	1-107-826-11	CERAMIC CHIP 0.1uF	10.00% 16V	C253	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C103	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V	C254	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C104	1-162-967-11	CERAMIC CHIP 0.0033uF	10% 50V	C255	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C107	1-162-921-11	CERAMIC CHIP 33PF	5% 50V	C256	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C108	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C257	1-128-934-91	CERAMIC CHIP 0.33uF	20% 10V
C109	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C258	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C110	1-107-826-11	CERAMIC CHIP 0.1uF	10.00% 16V	C259	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C111	1-126-607-11	ELECT CHIP 47uF	20% 4V	C260	1-128-590-11	ELECT CHIP 100uF	20.00% 6.3V
C112	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C261	1-126-246-11	ELECT CHIP 220uF	20% 4V
C113	1-128-995-21	ELECT CHIP 100uF	20% 10V	C263	1-126-607-11	ELECT CHIP 47uF	20% 4V
C114	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C264	1-126-607-11	ELECT CHIP 47uF	20% 4V
C115	1-128-995-21	ELECT CHIP 100uF	20% 10V	C265	1-126-607-11	ELECT CHIP 47uF	20% 4V
C116	1-107-826-11	CERAMIC CHIP 0.1uF	10.00% 16V	C266	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C117	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C267	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V
C118	1-115-156-11	CERAMIC CHIP 1uF	10V	C268	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V
C119	1-115-156-11	CERAMIC CHIP 1uF	10V	C269	1-126-607-11	ELECT CHIP 47uF	20% 4V
C121	1-216-864-11	METAL CHIP 0	5% 1/16W	C270	1-162-960-11	CERAMIC CHIP 220PF	10% 50V
C122	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C271	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C131	1-110-563-11	CERAMIC CHIP 0.068uF	10.00% 16V	C272	1-216-864-11	METAL CHIP 0	5% 1/16W
C132	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V	C273	1-162-960-11	CERAMIC CHIP 220PF	10% 50V
C133	1-165-884-91	CERAMIC CHIP 2.2uF	10% 6.3V	C274	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C150	1-128-394-11	ELECT CHIP 220uF	20% 10V	C292	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C151	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C310	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C152	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C313	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C153	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C314	1-115-156-11	CERAMIC CHIP 1uF	10V
C156	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C316	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C169	1-128-394-11	ELECT CHIP 220uF	20% 10V			< CONNECTOR >	
C202	1-164-360-11	CERAMIC CHIP 0.1uF	16V	CN101	1-794-424-11	CONNECTOR, FCC/FPC 16P	
C203	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	CN102	1-784-834-21	CONNECTOR, FFC(LIF(NON-ZIF))23P	
C205	1-164-360-11	CERAMIC CHIP 0.1uF	16V	CN104	1-784-863-21	CONNECTOR, FFC(LIF(NON-ZIF))11P	
C208	1-164-360-11	CERAMIC CHIP 0.1uF	16V			< FERRITE BEAD >	
C209	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	FB102	1-216-864-11	METAL CHIP 0	5% 1/16W
C211	1-107-826-11	CERAMIC CHIP 0.1uF	10.00% 16V	FB103	1-216-864-11	METAL CHIP 0	5% 1/16W
C212	1-162-965-11	CERAMIC CHIP 0.0015uF	10% 50V	FB104	1-216-864-11	METAL CHIP 0	5% 1/16W
C213	1-162-967-11	CERAMIC CHIP 0.0033uF	10% 50V	* FB161	1-469-670-21	FERRITE 0uH	
C215	1-117-863-11	CERAMIC CHIP 0.47uF	10.00% 6.3V	FB201	1-216-295-91	SHORT CHIP 0	
C216	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	FB203	1-216-864-11	METAL CHIP 0	5% 1/16W
C222	1-164-360-11	CERAMIC CHIP 0.1uF	16V	FB204	1-216-295-91	SHORT CHIP 0	
C224	1-115-156-11	CERAMIC CHIP 1uF	10V	FB291	1-216-864-11	METAL CHIP 0	5% 1/16W
C226	1-126-607-11	ELECT CHIP 47uF	20% 4V	FB351	1-216-864-11	METAL CHIP 0	5% 1/16W
C227	1-164-360-11	CERAMIC CHIP 0.1uF	16V			< IC >	
C229	1-164-360-11	CERAMIC CHIP 0.1uF	16V	IC101	8-752-408-73	IC CXD3068Q	
C230	1-164-360-11	CERAMIC CHIP 0.1uF	16V	IC102	8-759-713-70	IC AN41020A	
C231	1-100-588-21	ELECT CHIP 1000uF	20% 6.3V				

BD

FRONT

Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description				Remarks
IC103	8-752-106-21	IC CXA2647N-T4					R224	1-216-809-11	METAL CHIP	100	5%		1/16W
IC104	6-701-810-01	IC TC94A20F-CX4					R225	1-216-809-11	METAL CHIP	100	5%		1/16W
IC121	6-700-394-01	IC BA25BC0FP-E2					R226	1-216-809-11	METAL CHIP	100	5%		1/16W
< JUMPER RESISTOR >							R227	1-216-809-11	METAL CHIP	100	5%		1/16W
JR5	1-216-864-11	METAL CHIP	0	5%	1/16W		R230	1-216-811-11	METAL CHIP	150	5%		1/16W
							R231	1-216-815-11	METAL CHIP	330	5%		1/16W
							R232	1-216-815-11	METAL CHIP	330	5%		1/16W
< COIL >							R233	1-216-815-11	METAL CHIP	330	5%		1/16W
L101	1-412-032-11	INDUCTOR CHIP	100uH				R249	1-216-818-11	METAL CHIP	560	5%		1/16W
L163	1-216-864-11	METAL CHIP	0	5%	1/16W		R250	1-216-813-11	METAL CHIP	220	5%		1/16W
< TRANSISTOR >							R251	1-216-813-11	METAL CHIP	220	5%		1/16W
Q101	8-729-046-90	TRANSISTOR	2SB970-(TX).S0				R252	1-216-857-11	METAL CHIP	1M	5%		1/16W
							R253	1-216-821-11	METAL CHIP	1K	5%		1/16W
							R255	1-216-809-11	METAL CHIP	100	5%		1/16W
< RESISTOR >							R257	1-216-809-11	METAL CHIP	100	5%		1/16W
R101	1-216-864-11	METAL CHIP	0	5%	1/16W		R259	1-216-809-11	METAL CHIP	100	5%		1/16W
R102	1-216-835-11	METAL CHIP	15K	5%	1/16W		R260	1-216-821-11	METAL CHIP	1K	5%		1/16W
R103	1-216-845-11	METAL CHIP	100K	5%	1/16W		R261	1-164-360-11	CERAMIC CHIP	0.1uF			16V
R104	1-216-835-11	METAL CHIP	15K	5%	1/16W		R265	1-216-813-11	METAL CHIP	220	5%		1/16W
R105	1-216-821-11	METAL CHIP	1K	5%	1/16W		R266	1-216-813-11	METAL CHIP	220	5%		1/16W
R111	1-216-847-11	METAL CHIP	150K	5%	1/16W		R271	1-216-833-11	METAL CHIP	10K	5%		1/16W
							R272	1-216-829-11	METAL CHIP	4.7K	5%		1/16W
							R275	1-216-833-11	METAL CHIP	10K	5%		1/16W
R113	1-216-826-11	METAL CHIP	2.7K	5%	1/16W		R276	1-216-809-11	METAL CHIP	100	5%		1/16W
R114	1-216-852-11	METAL CHIP	390K	5%	1/16W		R279	1-216-809-11	METAL CHIP	100	5%		1/16W
R115	1-216-839-11	METAL CHIP	33K	5%	1/16W		R284	1-162-960-11	CERAMIC CHIP	220PF	10%		50V
R116	1-216-839-11	METAL CHIP	33K	5%	1/16W		R291	1-216-864-11	METAL CHIP	0	5%		1/16W
R117	1-216-852-11	METAL CHIP	390K	5%	1/16W		R303	1-216-864-11	METAL CHIP	0	5%		1/16W
R118	1-216-833-11	METAL CHIP	10K	5%	1/16W		R308	1-216-864-11	METAL CHIP	0	5%		1/16W
R120	1-216-846-11	METAL CHIP	120K	5%	1/16W		R309	1-216-864-11	METAL CHIP	0	5%		1/16W
R122	1-216-845-11	METAL CHIP	100K	5%	1/16W		R310	1-216-864-11	METAL CHIP	0	5%		1/16W
R123	1-216-791-11	METAL CHIP	3.3	5%	1/16W		R311	1-216-864-11	METAL CHIP	0	5%		1/16W
R125	1-216-841-11	METAL CHIP	47K	5%	1/16W		R313	1-216-864-11	METAL CHIP	0	5%		1/16W
							R314	1-216-864-11	METAL CHIP	0	5%		1/16W
							R316	1-216-864-11	METAL CHIP	0	5%		1/16W
R126	1-216-841-11	METAL CHIP	47K	5%	1/16W		R318	1-216-864-11	METAL CHIP	0	5%		1/16W
R131	1-216-843-11	METAL CHIP	68K	5%	1/16W		R319	1-216-864-11	METAL CHIP	0	5%		1/16W
R132	1-216-851-11	METAL CHIP	330K	5%	1/16W		R321	1-216-864-11	METAL CHIP	0	5%		1/16W
R133	1-216-825-11	METAL CHIP	2.2K	5%	1/16W		R351	1-216-864-11	METAL CHIP	0	5%		1/16W
R151	1-216-845-11	METAL CHIP	100K	5%	1/16W	< VARIABLE RESISTOR >							
R152	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	RV101	1-223-997-21	RES, CARBON ADJ VAR 47K					
R155	1-216-864-11	METAL CHIP	0	5%	1/16W	< VIBRATOR >							
R166	1-216-864-11	METAL CHIP	0	5%	1/16W		X201	1-767-408-21	VIBRATOR, CRYSTAL (16.9344 MHz)				
R167	1-216-864-11	METAL CHIP	0	5%	1/16W	*****							
R168	1-216-864-11	METAL CHIP	0	5%	1/16W		A-4748-734-A	FRONT BOARD, COMPLETE	*****				
R169	1-216-864-11	METAL CHIP	0	5%	1/16W								
R199	1-216-864-11	METAL CHIP	0	5%	1/16W								
R201	1-216-839-11	METAL CHIP	33K	5%	1/16W	< CAPACITOR >							
R202	1-216-833-11	METAL CHIP	10K	5%	1/16W		4-247-818-01	GUIDE (FL)					
R203	1-216-845-11	METAL CHIP	100K	5%	1/16W		4-247-819-01	HOLDER, SENSOR					
							4-247-820-01	FILTER, FL					
R204	1-216-827-11	METAL CHIP	3.3K	5%	1/16W								
R205	1-216-821-11	METAL CHIP	1K	5%	1/16W								
R206	1-216-829-11	METAL CHIP	4.7K	5%	1/16W								
R207	1-216-857-11	METAL CHIP	1M	5%	1/16W								
R216	1-216-857-11	METAL CHIP	1M	5%	1/16W								
R218	1-216-821-11	METAL CHIP	1K	5%	1/16W								
R219	1-216-821-11	METAL CHIP	1K	5%	1/16W								
R220	1-216-821-11	METAL CHIP	1K	5%	1/16W								
R221	1-216-809-11	METAL CHIP	100	5%	1/16W								
R222	1-216-809-11	METAL CHIP	100	5%	1/16W	C602	1-124-261-00	ELECT	10uF	20%		50V	
						C603	1-165-621-91	CERAMIC CHIP	0.1uF			50V	
						C604	1-162-964-11	CERAMIC CHIP	0.001uF	10%		50V	

FRONT

Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description					Remarks
C605	1-162-974-11	CERAMIC CHIP	0.01uF			50V	D605	8-719-059-98	DIODE	SLR-342VCT31				
C606	1-162-962-11	CERAMIC CHIP	470PF	10%		50V								
C607	1-165-621-91	CERAMIC CHIP	0.1uF			50V	D606	8-719-110-09	DIODE	MTZJ-T-72-8.2C				
C608	1-124-584-00	ELECT	100uF	20%		10V	D607	8-719-110-09	DIODE	MTZJ-T-72-8.2C				
C609	1-126-916-11	ELECT	1000uF	20.00%		6.3V	D608	8-719-110-09	DIODE	MTZJ-T-72-8.2C				
C610	1-165-621-91	CERAMIC CHIP	0.1uF			50V	D609	8-719-110-09	DIODE	MTZJ-T-72-8.2C				
C611	1-126-163-11	ELECT	4.7uF	20%		50V	D610	8-719-110-09	DIODE	MTZJ-T-72-8.2C				
									< FERRITE BEAD >					
C612	1-165-621-91	CERAMIC CHIP	0.1uF			50V	FB601	1-410-396-41	FERRITE		0.45uH			
C613	1-165-621-91	CERAMIC CHIP	0.1uF			50V								
C614	1-126-163-11	ELECT	4.7uF	20%		50V			< FILTER >					
C615	1-162-974-11	CERAMIC CHIP	0.01uF			50V								
C616	1-124-261-00	ELECT	10uF	20%		50V	FL601	1-518-886-11	INDICATOR TUBE, FLUORESCENT					
C617	1-165-621-91	CERAMIC CHIP	0.1uF			50V								
C618	1-162-927-11	CERAMIC CHIP	100PF	5%		50V			< IC >					
C619	1-162-927-11	CERAMIC CHIP	100PF	5%		50V								
C620	1-162-927-11	CERAMIC CHIP	100PF	5%		50V	IC601	6-803-368-01	IC	LC876780B-52C4-E				
C621	1-162-927-11	CERAMIC CHIP	100PF	5%		50V	IC602	8-759-266-23	IC	BU4094BCF-E2				
							IC603	8-759-233-75	IC	TC74HCT245AF(EL)				
C622	1-162-927-11	CERAMIC CHIP	100PF	5%		50V	IC604	6-700-250-01	IC	PST3445UL				
C630	1-165-621-91	CERAMIC CHIP	0.1uF			50V	IC605	8-759-598-69	IC	BA6956AN				
C631	1-165-621-91	CERAMIC CHIP	0.1uF			50V								
C632	1-124-261-00	ELECT	10uF	20%		50V	IC606	6-600-092-01	IC	RPM7138-V4				
C633	1-162-974-11	CERAMIC CHIP	0.01uF			50V								
									< COIL >					
C634	1-124-261-00	ELECT	10uF	20%		50V	L601	1-410-509-11	INDUCTOR		10uH			
C635	1-162-974-11	CERAMIC CHIP	0.01uF			50V								
C636	1-124-234-00	ELECT	22uF	20%		16V			< TRANSISTOR >					
C637	1-165-621-91	CERAMIC CHIP	0.1uF			50V								
C638	1-165-621-91	CERAMIC CHIP	0.1uF			50V	Q601	6-550-296-01	TRANSISTOR	2SA1980G				
C639	1-162-918-11	CERAMIC CHIP	18PF	5.00%		50V	Q602	8-729-230-49	TRANSISTOR	2SC2712L-TE85R				
C640	1-162-920-11	CERAMIC CHIP	27PF	5%		50V	Q603	8-729-230-49	TRANSISTOR	2SC2712L-TE85R				
C642	1-162-921-11	CERAMIC CHIP	33PF	5%		50V	Q604	8-729-902-80	TRANSISTOR	DTA114YS-TP				
C643	1-162-925-11	CERAMIC CHIP	68PF	5.00%		50V	Q605	8-729-027-44	TRANSISTOR	DTC114TKA-T146				
C644	1-162-917-11	CERAMIC CHIP	15PF	5%		50V								
C645	1-162-924-11	CERAMIC CHIP	56PF	5.00%		50V	Q606	8-729-230-49	TRANSISTOR	2SC2712L-TE85R				
C646	1-165-621-91	CERAMIC CHIP	0.1uF			50V	Q607	8-729-027-44	TRANSISTOR	DTC114TKA-T146				
C647	1-165-621-91	CERAMIC CHIP	0.1uF			50V	Q608	6-550-297-01	TRANSISTOR	2SA1981Y				
C648	1-162-974-11	CERAMIC CHIP	0.01uF			50V	Q609	6-550-305-01	TRANSISTOR	2SA1296GR-(TPE2)				
C649	1-124-261-00	ELECT	10uF	20%		50V	Q610	8-729-900-53	TRANSISTOR	DTC114EKA-T146				
									< RESISTOR >					
C650	1-162-974-11	CERAMIC CHIP	0.01uF			50V								
C651	1-125-972-91	ELECT	100uF	20.00%		16V	R601	1-216-821-11	METAL CHIP	1K	5%		1/16W	
C751	1-162-974-11	CERAMIC CHIP	0.01uF			50V	R602	1-216-809-11	METAL CHIP	100	5%		1/16W	
C752	1-162-974-11	CERAMIC CHIP	0.01uF			50V	R603	1-216-809-11	METAL CHIP	100	5%		1/16W	
C753	1-162-974-11	CERAMIC CHIP	0.01uF			50V	R604	1-216-809-11	METAL CHIP	100	5%		1/16W	
							R605	1-216-809-11	METAL CHIP	100	5%		1/16W	
C754	1-162-974-11	CERAMIC CHIP	0.01uF			50V								
C755	1-162-974-11	CERAMIC CHIP	0.01uF			50V	R606	1-216-809-11	METAL CHIP	100	5%		1/16W	
C756	1-162-974-11	CERAMIC CHIP	0.01uF			50V	R607	1-216-821-11	METAL CHIP	1K	5%		1/16W	
C757	1-162-974-11	CERAMIC CHIP	0.01uF			50V	R608	1-216-821-11	METAL CHIP	1K	5%		1/16W	
C758	1-162-974-11	CERAMIC CHIP	0.01uF			50V	R609	1-216-821-11	METAL CHIP	1K	5%		1/16W	
							R610	1-216-821-11	METAL CHIP	1K	5%		1/16W	
		< CONNECTOR >												
* CN601	1-784-785-11	CONNECTOR, FFC 24P					R611	1-216-833-11	METAL CHIP	10K	5%		1/16W	
CN602	1-691-050-21	CONNECTOR, FFC 18P					R612	1-216-833-11	METAL CHIP	10K	5%		1/16W	
CN603	1-691-040-31	CONNECTOR, FFC 8P					R614	1-216-833-11	METAL CHIP	10K	5%		1/16W	
							R615	1-216-821-11	METAL CHIP	1K	5%		1/16W	
							R616	1-216-833-11	METAL CHIP	10K	5%		1/16W	
		< DIODE >												
D601	8-719-110-09	DIODE	MTZJ-T-72-8.2C				R617	1-216-821-11	METAL CHIP	1K	5%		1/16W	
D602	8-719-110-09	DIODE	MTZJ-T-72-8.2C				R618	1-216-821-11	METAL CHIP	1K	5%		1/16W	
D603	8-719-010-41	DIODE	UZ-5.6BSA-TP				R619	1-216-821-11	METAL CHIP	1K	5%		1/16W	
D604	8-719-110-09	DIODE	MTZJ-T-72-8.2C				R620	1-216-829-11	METAL CHIP	4.7K	5%		1/16W	
							R621	1-216-821-11	METAL CHIP	1K	5%		1/16W	

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
R622	1-216-821-11	METAL CHIP	1K	5%	1/16W	R684	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R623	1-216-821-11	METAL CHIP	1K	5%	1/16W	R685	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
R624	1-216-809-11	METAL CHIP	100	5%	1/16W						
R625	1-216-821-11	METAL CHIP	1K	5%	1/16W	R686	1-249-387-11	CARBON	3.3	5%	1/4W F
R626	1-216-821-11	METAL CHIP	1K	5%	1/16W	R687	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R688	1-216-837-11	METAL CHIP	22K	5%	1/16W
R627	1-216-809-11	METAL CHIP	100	5%	1/16W	R701	1-216-845-11	METAL CHIP	100K	5%	1/16W
R628	1-216-821-11	METAL CHIP	1K	5%	1/16W	R702	1-216-845-11	METAL CHIP	100K	5%	1/16W
R629	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R630	1-216-821-11	METAL CHIP	1K	5%	1/16W	R703	1-216-845-11	METAL CHIP	100K	5%	1/16W
R631	1-216-821-11	METAL CHIP	1K	5%	1/16W	R704	1-216-845-11	METAL CHIP	100K	5%	1/16W
						R705	1-216-845-11	METAL CHIP	100K	5%	1/16W
R632	1-216-809-11	METAL CHIP	100	5%	1/16W	R706	1-216-845-11	METAL CHIP	100K	5%	1/16W
R633	1-216-821-11	METAL CHIP	1K	5%	1/16W	R707	1-216-845-11	METAL CHIP	100K	5%	1/16W
R634	1-216-843-11	METAL CHIP	68K	5%	1/16W						
R636	1-216-809-11	METAL CHIP	100	5%	1/16W	R708	1-216-845-11	METAL CHIP	100K	5%	1/16W
R637	1-216-809-11	METAL CHIP	100	5%	1/16W	R709	1-216-845-11	METAL CHIP	100K	5%	1/16W
						R710	1-216-845-11	METAL CHIP	100K	5%	1/16W
R638	1-216-821-11	METAL CHIP	1K	5%	1/16W	R711	1-216-845-11	METAL CHIP	100K	5%	1/16W
R639	1-216-821-11	METAL CHIP	1K	5%	1/16W	R712	1-216-845-11	METAL CHIP	100K	5%	1/16W
R641	1-216-841-11	METAL CHIP	47K	5%	1/16W						
R642	1-216-841-11	METAL CHIP	47K	5%	1/16W	R713	1-216-845-11	METAL CHIP	100K	5%	1/16W
R643	1-216-841-11	METAL CHIP	47K	5%	1/16W	R714	1-216-845-11	METAL CHIP	100K	5%	1/16W
						R715	1-216-845-11	METAL CHIP	100K	5%	1/16W
R644	1-216-835-11	METAL CHIP	15K	5%	1/16W	R716	1-216-845-11	METAL CHIP	100K	5%	1/16W
R645	1-216-809-11	METAL CHIP	100	5%	1/16W	R717	1-216-845-11	METAL CHIP	100K	5%	1/16W
R646	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R647	1-216-833-11	METAL CHIP	10K	5%	1/16W	R718	1-216-845-11	METAL CHIP	100K	5%	1/16W
R648	1-216-841-11	METAL CHIP	47K	5%	1/16W	R719	1-216-845-11	METAL CHIP	100K	5%	1/16W
						R720	1-216-845-11	METAL CHIP	100K	5%	1/16W
R649	1-216-849-11	METAL CHIP	220K	5%	1/16W	R721	1-216-845-11	METAL CHIP	100K	5%	1/16W
R650	1-216-845-11	METAL CHIP	100K	5%	1/16W	R722	1-216-845-11	METAL CHIP	100K	5%	1/16W
R651	1-216-829-11	METAL CHIP	4.7K	5%	1/16W						
R652	1-216-835-11	METAL CHIP	15K	5%	1/16W	R723	1-216-845-11	METAL CHIP	100K	5%	1/16W
R653	1-216-821-11	METAL CHIP	1K	5%	1/16W	R724	1-216-845-11	METAL CHIP	100K	5%	1/16W
						R725	1-216-845-11	METAL CHIP	100K	5%	1/16W
R654	1-216-817-11	METAL CHIP	470	5%	1/16W	R726	1-216-845-11	METAL CHIP	100K	5%	1/16W
R656	1-216-797-11	METAL CHIP	10	5%	1/16W	R727	1-216-845-11	METAL CHIP	100K	5%	1/16W
R657	1-216-809-11	METAL CHIP	100	5%	1/16W						
R659	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R728	1-216-845-11	METAL CHIP	100K	5%	1/16W
R660	1-216-821-11	METAL CHIP	1K	5%	1/16W	R729	1-216-845-11	METAL CHIP	100K	5%	1/16W
						R730	1-216-845-11	METAL CHIP	100K	5%	1/16W
R661	1-216-841-11	METAL CHIP	47K	5%	1/16W	R731	1-216-845-11	METAL CHIP	100K	5%	1/16W
R662	1-216-841-11	METAL CHIP	47K	5%	1/16W	R738	1-216-845-11	METAL CHIP	100K	5%	1/16W
R663	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R664	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R751	1-216-837-11	METAL CHIP	22K	5%	1/16W
R665	1-216-813-11	METAL CHIP	220	5%	1/16W	R752	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R753	1-216-833-11	METAL CHIP	10K	5%	1/16W
R666	1-216-809-11	METAL CHIP	100	5%	1/16W	R754	1-216-833-11	METAL CHIP	10K	5%	1/16W
R667	1-216-833-11	METAL CHIP	10K	5%	1/16W	R755	1-216-837-11	METAL CHIP	22K	5%	1/16W
R668	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R669	1-216-833-11	METAL CHIP	10K	5%	1/16W	R756	1-216-833-11	METAL CHIP	10K	5%	1/16W
R670	1-216-821-11	METAL CHIP	1K	5%	1/16W	R757	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R758	1-216-833-11	METAL CHIP	10K	5%	1/16W
R671	1-216-833-11	METAL CHIP	10K	5%	1/16W	R759	1-216-837-11	METAL CHIP	22K	5%	1/16W
R672	1-249-381-11	CARBON	1	5%	1/4W F	R760	1-216-833-11	METAL CHIP	10K	5%	1/16W
R673	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R674	1-216-841-11	METAL CHIP	47K	5%	1/16W	R761	1-216-833-11	METAL CHIP	10K	5%	1/16W
R675	1-216-837-11	METAL CHIP	22K	5%	1/16W	R762	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R763	1-216-833-11	METAL CHIP	10K	5%	1/16W
R676	1-216-839-11	METAL CHIP	33K	5%	1/16W	R764	1-216-833-11	METAL CHIP	10K	5%	1/16W
R677	1-216-837-11	METAL CHIP	22K	5%	1/16W	R765	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R678	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R679	1-216-837-11	METAL CHIP	22K	5%	1/16W	R767	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R680	1-216-830-11	METAL CHIP	5.6K	5%	1/16W	R768	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
						R769	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R681	1-216-830-11	METAL CHIP	5.6K	5%	1/16W	R770	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R682	1-216-845-11	METAL CHIP	100K	5%	1/16W	R771	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R683	1-216-845-11	METAL CHIP	100K	5%	1/16W						

CX-LFA600

FRONT

LOADING

MAIN

Ref. No.	Part No.	Description			Remarks
R772	1-216-833-11	METAL CHIP	10K	5%	1/16W
R773	1-216-833-11	METAL CHIP	10K	5%	1/16W
R774	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R775	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R776	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
R777	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R778	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
< SWITCH >					
S751	1-786-395-11	SW, RTRY RE0123PVB25FINA 1-2 (BASS)			
S752	1-786-395-11	SW, RTRY RE0123PVB25FINA 1-2 (TREBLE)			
S753	1-477-823-11	ENCODER, ROTARY (VOLUME)			
S754	1-771-410-21	SWITCH, TACTILE (CD▶▶II)			
S755	1-771-410-21	SWITCH, TACTILE (TUNER/BAND)			
S756	1-771-410-21	SWITCH, TACTILE (TAPE ◀▶)			
S757	1-771-410-21	SWITCH, TACTILE (AUX)			
S758	1-771-410-21	SWITCH, TACTILE (▲OPEN/CLOSE)			
S759	1-771-410-21	SWITCH, TACTILE (STOP ■)			
S760	1-771-410-21	SWITCH, TACTILE (+▶▶I▶▶)			
S761	1-771-410-21	SWITCH, TACTILE (POWER/⏻STANDBY/ON)			
S762	1-771-410-21	SWITCH, TACTILE (ECO)			
S763	1-771-410-21	SWITCH, TACTILE (RDS)			
S764	1-771-410-21	SWITCH, TACTILE (SYNCHRO REC)			
S765	1-771-410-21	SWITCH, TACTILE (REC START/REC PAUSE)			
S766	1-771-410-21	SWITCH, TACTILE (-I◀◀◀◀)			
< VIBRATOR >					
X601	9-300-001-87	VIB.XTAL 32.768kHz CFS-308 CT			
X602	1-795-880-11	VIBRATOR, CERAMIC (8.64 MHz)			

	1-674-336-12	LOADING BOARD			

< CONNECTOR >					
* CN151	1-568-943-11	PIN, CONNECTOR 5P			
< SWITCH >					
S1	1-786-203-11	SWITCH, LEVER (SLIDE)(OPEN/CLOSE)			

	A-4748-735-A	MAIN BOARD, COMPLETE			

< CAPACITOR >					
* C101	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C102	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C103	1-126-963-11	ELECT	4.7uF	20.00%	50V
C104	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C105	1-164-392-11	CERAMIC CHIP	390PF	10.00%	50V
C106	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C107	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C108	1-128-551-11	ELECT	22uF	20.00%	25V
C109	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V
C110	1-164-733-11	CERAMIC CHIP	820PF	10.00%	50V
C111	1-126-961-11	ELECT	2.2uF	20.00%	50V
C112	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C114	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C116	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C118	1-216-864-11	METAL CHIP	0	5%	1/16W

Ref. No.	Part No.	Description	Remarks		
C119	1-126-957-11	ELECT	0.22uF	20.00%	50V
C120	1-126-959-11	ELECT	0.47uF	20.00%	50V
C121	1-126-963-11	ELECT	4.7uF	20.00%	50V
C122	1-126-956-91	ELECT	0.1uF	20.00%	50V
C123	1-164-245-11	CERAMIC CHIP	0.015uF	10.00%	50V
C124	1-126-963-11	ELECT	4.7uF	20.00%	50V
C125	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C126	1-126-964-11	ELECT	10uF	20.00%	50V
C127	1-162-952-11	CERAMIC CHIP	82PF	5%	50V
C128	1-130-321-11	FILM	0.1uF	5.00%	100V
C130	1-126-963-11	ELECT	4.7uF	20.00%	50V
* C201	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C202	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C203	1-126-963-11	ELECT	4.7uF	20.00%	50V
C204	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C205	1-164-392-11	CERAMIC CHIP	390PF	10.00%	50V
C206	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C207	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C208	1-128-551-11	ELECT	22uF	20.00%	25V
C209	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V
C210	1-164-733-11	CERAMIC CHIP	820PF	10.00%	50V
C211	1-126-961-11	ELECT	2.2uF	20.00%	50V
C212	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C214	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C216	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C218	1-216-864-11	METAL CHIP	0	5%	1/16W
C219	1-126-957-11	ELECT	0.22uF	20.00%	50V
C220	1-126-959-11	ELECT	0.47uF	20.00%	50V
C221	1-126-963-11	ELECT	4.7uF	20.00%	50V
C222	1-126-956-91	ELECT	0.1uF	20.00%	50V
C223	1-164-245-11	CERAMIC CHIP	0.015uF	10.00%	50V
C224	1-126-963-11	ELECT	4.7uF	20.00%	50V
C225	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C226	1-126-964-11	ELECT	10uF	20.00%	50V
C227	1-162-952-11	CERAMIC CHIP	82PF	5%	50V
C228	1-130-321-11	FILM	0.1uF	5.00%	100V
C230	1-126-963-11	ELECT	4.7uF	20.00%	50V
C301	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C302	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C303	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C304	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C305	1-165-621-91	CERAMIC CHIP	0.1uF		50V
C306	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C307	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C308	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C310	1-165-621-91	CERAMIC CHIP	0.1uF		50V
C311	1-104-665-11	ELECT	100uF	20.00%	10V
C312	1-126-933-11	ELECT	100uF	20.00%	16V
C313	1-165-621-91	CERAMIC CHIP	0.1uF		50V
C314	1-165-621-91	CERAMIC CHIP	0.1uF		50V
C315	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C316	1-165-621-91	CERAMIC CHIP	0.1uF		50V
C317	1-126-947-11	ELECT	47uF	20.00%	16V
C318	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C319	1-126-968-11	ELECT	100uF	20.00%	50V
C324	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C325	1-126-947-11	ELECT	47uF	20.00%	16V
C327	1-104-665-11	ELECT	100uF	20.00%	10V
C330	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C332	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C333	1-126-947-11	ELECT	47uF 20.00% 16V	D304	8-719-200-02	DIODE 1N4001	
C334	1-126-933-11	ELECT	100uF 20.00% 16V	D305	8-719-110-09	DIODE MTZJ-T-72-8.2C	
C335	1-126-961-11	ELECT	2.2uF 20.00% 50V				
C337	1-126-934-11	ELECT	220uF 20.00% 16V	D306	8-719-110-09	DIODE MTZJ-T-72-8.2C	
C338	1-165-621-91	CERAMIC CHIP	0.1uF 50V	D308	6-500-335-01	DIODE MC2838	
				D309	8-719-110-09	DIODE MTZJ-T-77-8.2C	
C339	1-126-963-11	ELECT	4.7uF 20.00% 50V	D310	8-719-110-09	DIODE MTZJ-T-72-8.2C	
C340	1-126-947-11	ELECT	47uF 20.00% 16V	D311	8-719-110-09	DIODE MTZJ-T-72-8.2C	
C341	1-104-665-11	ELECT	100uF 20.00% 10V				
C342	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D312	8-719-110-09	DIODE MTZJ-T-72-8.2C	
C343	1-128-551-11	ELECT	22uF 20.00% 25V	D313	8-719-921-40	DIODE MTZJ-T-77-4.7B	
				D314	8-719-110-09	DIODE MTZJ-T-72-8.2C	
C344	1-126-935-11	ELECT	470uF 20.00% 6.3V	D315	8-719-110-09	DIODE MTZJ-T-72-8.2C	
C345	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D316	8-719-110-09	DIODE MTZJ-T-72-8.2C	
C346	1-126-947-11	ELECT	47uF 20.00% 16V				
C349	1-164-172-11	CERAMIC CHIP	0.0056uF 10.00% 25V	D317	8-719-110-09	DIODE MTZJ-T-72-8.2C	
C351	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	D318	8-719-110-09	DIODE MTZJ-T-72-8.2C	
				D319	8-719-110-09	DIODE MTZJ-T-72-8.2C	
C352	1-104-700-11	CERAMIC CHIP	0.027uF 10.00% 16V	D320	8-719-110-09	DIODE MTZJ-T-72-8.2C	
C353	1-162-979-11	CERAMIC CHIP	0.0027uF 10.00% 50V	D321	8-719-110-09	DIODE MTZJ-T-72-8.2C	
C354	1-162-979-11	CERAMIC CHIP	0.0027uF 10.00% 50V				
C355	1-165-621-91	CERAMIC CHIP	0.1uF 50V	D907	8-719-200-02	DIODE 1N4001	
C356	1-126-947-11	ELECT	47uF 20.00% 16V	D908	8-719-200-02	DIODE 1N4001	
				D909	8-719-200-02	DIODE 1N4001	
C358	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	D910	8-719-200-02	DIODE 1N4001	
C903	1-127-980-11	CERAMIC	0.1uF 100V	D911	8-719-200-02	DIODE 1N4001	
C904	1-127-980-11	CERAMIC	0.1uF 100V				
C905	1-165-621-91	CERAMIC CHIP	0.1uF 50V	D912	8-719-983-35	DIODE MTZJ-T-77-33D	
C906	1-165-621-91	CERAMIC CHIP	0.1uF 50V	D913	8-719-921-54	DIODE MTZJ-T-77-6.2	
				D914	8-719-921-40	DIODE MTZJ-T-77-4.7B	
C907	1-128-550-11	ELECT	2200uF 20.00% 50V	D915	8-719-110-09	DIODE MTZJ-T-72-8.2C	
C908	1-128-550-11	ELECT	2200uF 20.00% 50V	D916	8-719-110-09	DIODE MTZJ-T-77-8.2C	
C909	1-165-621-91	CERAMIC CHIP	0.1uF 50V				
C910	1-165-621-91	CERAMIC CHIP	0.1uF 50V			< FERRITE BEAD >	
C911	1-165-621-91	CERAMIC CHIP	0.1uF 50V	FB301	1-410-396-41	FERRITE 0.45uH	
				FB302	1-410-396-41	FERRITE 0.45uH	
C912	1-165-621-91	CERAMIC CHIP	0.1uF 50V	FB304	1-410-396-41	FERRITE 0.45uH	
C913	1-128-548-11	ELECT	4700uF 20.00% 25V	FB305	1-410-396-41	FERRITE 0.45uH	
C914	1-128-552-51	ELECT	47uF 20.00% 63V	FB306	1-410-396-41	FERRITE 0.45uH	
C915	1-126-965-91	ELECT	22uF 20.00% 50V				
C916	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	FB308	1-410-396-41	FERRITE 0.45uH	
C917	1-126-965-91	ELECT	22uF 20.00% 50V			< IC >	
C918	1-126-964-11	ELECT	10uF 20.00% 50V				
C919	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	IC101	6-702-895-01	IC BD3881FV	
C920	1-104-665-11	ELECT	100uF 20.00% 10V	IC102	6-704-106-01	IC STK403-040	
C921	1-162-962-11	CERAMIC CHIP	470PF 10% 50V	IC103	6-701-985-01	IC BH2220FVM-TR	
C922	1-165-621-91	CERAMIC CHIP	0.1uF 50V			< JACK >	
C923	1-126-935-11	ELECT	470uF 20.00% 16V	J101	1-793-478-11	JACK, PIN 2P (AUX IN)	
C924	1-165-621-91	CERAMIC CHIP	0.1uF 50V	J103	1-537-240-31	TERMINAL BOARD (CHECKER PIN)(SPEAKERS)	
				J104	1-774-785-11	JACK, PIN 1P (SUB WOOFER)	
		< CONNECTOR >					
CN101	1-784-867-21	CONNECTOR,FFC(LIF(NON-ZIF))15P				< COIL >	
CN102	1-779-281-11	CONNECTOR,FFC(LIF(NON-ZIF))13P					
* CN103	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P		L101	1-456-107-11	COIL, K (MDEC)	
* CN104	1-564-520-11	PLUG, CONNECTOR 5P		L201	1-456-107-11	COIL, K (MDEC)	
* CN105	1-784-785-11	CONNECTOR, FFC 24P		L301	1-410-324-11	INDUCTOR 4.7uH	
				L302	1-410-324-11	INDUCTOR 4.7uH	
CN106	1-691-050-21	CONNECTOR, FFC 18P				< TRANSISTOR >	
CN107	1-779-291-11	CONNECTOR,FFC(LIF(NON-ZIF))23P		Q101	8-729-216-22	TRANSISTOR 2SA1162-G	
* CN901	1-764-334-11	PLUG, CONNECTOR 11P		Q102	8-729-045-62	TRANSISTOR 2SK2158-T2B	
				Q104	8-729-230-49	TRANSISTOR 2SC2712L-TE85R	
		< DIODE >		Q201	8-729-216-22	TRANSISTOR 2SA1162-G	
D301	8-719-109-85	DIODE MTZJ-T-77-5.1B		Q202	8-729-045-62	TRANSISTOR 2SK2158-T2B	
D302	8-719-200-02	DIODE 1N4001					
D303	8-719-200-02	DIODE 1N4001					

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Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
Q204	8-729-230-49	TRANSISTOR	2SC2712L-TE85R			R133	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
Q301	6-550-333-01	TRANSISTOR	2SC5343GL			R134	1-216-842-11	METAL CHIP	56K	5%	1/16W
Q302	6-550-333-01	TRANSISTOR	2SC5343GL			R138	1-249-389-11	CARBON	4.7	5%	1/4W F
Q303	6-550-333-01	TRANSISTOR	2SC5343GL			R139	1-216-836-11	METAL CHIP	18K	5%	1/16W
Q304	8-729-230-49	TRANSISTOR	2SC2712L-TE85R			R201	1-216-840-11	METAL CHIP	39K	5%	1/16W
Q305	1-809-869-11	TRANSISTOR	DTA124EL-TL2			R202	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
Q306	1-809-869-11	TRANSISTOR	DTA124EL-TL2			R203	1-216-833-11	METAL CHIP	10K	5%	1/16W
Q307	8-729-045-62	TRANSISTOR	2SK2158-T2B			R204	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
Q308	8-729-216-22	TRANSISTOR	2SA1162-G			R205	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
Q311	8-729-230-49	TRANSISTOR	2SC2712L-TE85R			R206	1-216-821-11	METAL CHIP	1K	5%	1/16W
Q312	8-729-216-22	TRANSISTOR	2SA1162-G			R207	1-216-833-11	METAL CHIP	10K	5%	1/16W
Q313	8-729-230-49	TRANSISTOR	2SC2712L-TE85R			R208	1-216-840-11	METAL CHIP	39K	5%	1/16W
Q314	8-729-230-49	TRANSISTOR	2SC2712L-TE85R			R209	1-216-817-11	METAL CHIP	470	5%	1/16W
Q315	8-729-216-22	TRANSISTOR	2SA1162-G			R210	1-216-811-11	METAL CHIP	150	5%	1/16W
Q316	8-729-230-49	TRANSISTOR	2SC2712L-TE85R			R211	1-216-852-11	METAL CHIP	390K	5%	1/16W
Q317	8-729-024-94	TRANSISTOR	2SB1370-EF			R212	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
Q318	8-729-230-49	TRANSISTOR	2SC2712L-TE85R			R213	1-216-836-11	METAL CHIP	18K	5%	1/16W
Q319	6-550-296-01	TRANSISTOR	2SA1980G			R214	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
Q320	8-729-230-49	TRANSISTOR	2SC2712L-TE85R			R215	1-216-835-11	METAL CHIP	15K	5%	1/16W
Q321	8-729-230-49	TRANSISTOR	2SC2712L-TE85R			R216	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
Q901	8-729-030-50	TRANSISTOR	2SA934R			R217	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
Q902	8-729-900-53	TRANSISTOR	DTC114EK			R218	1-216-844-11	METAL CHIP	82K	5%	1/16W
Q903	8-729-024-94	TRANSISTOR	2SB1370-EF			R219	1-216-821-11	METAL CHIP	1K	5%	1/16W
Q904	6-550-333-01	TRANSISTOR	2SC5343GL			R220	1-216-843-11	METAL CHIP	68K	5%	1/16W
Q905	8-729-230-49	TRANSISTOR	2SC2712L-TE85R			R221	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
< RESISTOR >						R222	1-216-835-11	METAL CHIP	15K	5%	1/16W
R101	1-216-840-11	METAL CHIP	39K	5%	1/16W	R223	1-216-833-11	METAL CHIP	10K	5%	1/16W
R102	1-216-828-11	METAL CHIP	3.9K	5%	1/16W	R224	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R103	1-216-833-11	METAL CHIP	10K	5%	1/16W	R225	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R104	1-216-822-11	METAL CHIP	1.2K	5%	1/16W	R226	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
R105	1-218-867-11	METAL CHIP	6.8K	5%	1/10W	R227	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R106	1-216-821-11	METAL CHIP	1K	5%	1/16W	R228	1-216-842-11	METAL CHIP	56K	5%	1/16W
R107	1-216-833-11	METAL CHIP	10K	5%	1/16W	R229	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R108	1-216-840-11	METAL CHIP	39K	5%	1/16W	R231	1-216-845-11	METAL CHIP	100K	5%	1/16W
R109	1-216-817-11	METAL CHIP	470	5%	1/16W	R232	1-249-389-11	CARBON	4.7	5%	1/4W F
R110	1-216-811-11	METAL CHIP	150	5%	1/16W	R233	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R111	1-216-852-11	METAL CHIP	390K	5%	1/16W	R234	1-216-842-11	METAL CHIP	56K	5%	1/16W
R112	1-216-822-11	METAL CHIP	1.2K	5%	1/16W	R238	1-249-389-11	CARBON	4.7	5%	1/4W F
R113	1-216-836-11	METAL CHIP	18K	5%	1/16W	R239	1-216-836-11	METAL CHIP	18K	5%	1/16W
R114	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R301	1-216-813-11	METAL CHIP	220	5%	1/16W
R115	1-216-835-11	METAL CHIP	15K	5%	1/16W	R302	1-216-813-11	METAL CHIP	220	5%	1/16W
R116	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	R303	1-249-392-11	CARBON	8.2	5%	1/4W F
R117	1-216-828-11	METAL CHIP	3.9K	5%	1/16W	R304	1-216-836-11	METAL CHIP	18K	5%	1/16W
R118	1-216-844-11	METAL CHIP	82K	5%	1/16W	R305	1-216-836-11	METAL CHIP	18K	5%	1/16W
R119	1-216-821-11	METAL CHIP	1K	5%	1/16W	R306	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R120	1-216-843-11	METAL CHIP	68K	5%	1/16W	R307	1-216-845-11	METAL CHIP	100K	5%	1/16W
R121	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	R308	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R123	1-216-833-11	METAL CHIP	10K	5%	1/16W	R309	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R124	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R310	1-216-842-11	METAL CHIP	56K	5%	1/16W
R125	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R311	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R126	1-216-830-11	METAL CHIP	5.6K	5%	1/16W	R312	1-216-857-11	METAL CHIP	1M	5%	1/16W
R127	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R313	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R128	1-216-842-11	METAL CHIP	56K	5%	1/16W	R314	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R129	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	R315	1-216-801-11	METAL CHIP	22	5%	1/16W
R131	1-216-845-11	METAL CHIP	100K	5%	1/16W	R316	1-216-797-11	METAL CHIP	10	5%	1/16W
R132	1-249-389-11	CARBON	4.7	5%	1/4W F	R317	1-216-833-11	METAL CHIP	10K	5%	1/16W

MAIN

PHONE

PT

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R318	1-216-857-11	METAL CHIP	1M 5% 1/16W	R917	1-216-813-11	METAL CHIP 220 5% 1/16W	
R319	1-216-821-11	METAL CHIP	1K 5% 1/16W			< TRANSFORMER >	
R320	1-216-841-11	METAL CHIP	47K 5% 1/16W				
R321	1-216-835-11	METAL CHIP	15K 5% 1/16W				
				T301	1-456-094-11	COIL, OSC 85kHz BIAS	

R322	1-247-807-31	CARBON	100 5% 1/4W			PHONE BOARD	
R323	1-216-361-21	METAL OXIDE	0.22 5% 2W			*****	
R326	1-216-837-11	METAL CHIP	22K 5% 1/16W			< CAPACITOR >	
R330	1-218-867-11	METAL CHIP	6.8K 5% 1/10W				
R331	1-216-821-11	METAL CHIP	1K 5% 1/16W				
				C151	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
R332	1-216-845-11	METAL CHIP	100K 5% 1/16W	C251	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
R333	1-216-821-11	METAL CHIP	1K 5% 1/16W			< CONNECTOR >	
R334	1-216-857-11	METAL CHIP	1M 5% 1/16W				
R335	1-216-841-11	METAL CHIP	47K 5% 1/16W				
R336	1-216-833-11	METAL CHIP	10K 5% 1/16W				
				* CN301	1-564-508-11	PLUG, CONNECTOR 5P	
R337	1-216-837-11	METAL CHIP	22K 5% 1/16W			< FERRITE BEAD >	
R338	1-216-845-11	METAL CHIP	100K 5% 1/16W				
R339	1-216-821-11	METAL CHIP	1K 5% 1/16W				
R340	1-216-839-11	METAL CHIP	33K 5% 1/16W				
R342	1-249-413-11	CARBON	470 5% 1/4W F	FB307	1-410-396-41	FERRITE 0.45uH	
						< JACK >	
R343	1-249-393-11	CARBON	10 5% 1/4W F				
R344	1-249-393-11	CARBON	10 5% 1/4W F	J301	1-816-219-11	JACK, HEADPHONE (PHONES)	
R345	1-218-867-11	METAL CHIP	6.8K 5% 1/10W			< RESISTOR >	
R346	1-216-830-11	METAL CHIP	5.6K 5% 1/16W				
R347	1-216-821-11	METAL CHIP	1K 5% 1/16W				
				R151	1-249-409-11	CARBON 220 5% 1/4W F	
R348	1-218-867-11	METAL CHIP	6.8K 5% 1/10W	R152	1-249-409-11	CARBON 220 5% 1/4W F	
R349	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	R251	1-249-409-11	CARBON 220 5% 1/4W F	
R350	1-216-833-11	METAL CHIP	10K 5% 1/16W	R252	1-249-409-11	CARBON 220 5% 1/4W F	
R351	1-216-833-11	METAL CHIP	10K 5% 1/16W			*****	
R352	1-216-833-11	METAL CHIP	10K 5% 1/16W				
					1-860-321-11	PT BOARD	
R353	1-216-837-11	METAL CHIP	22K 5% 1/16W			*****	
R354	1-216-829-11	METAL CHIP	4.7K 5% 1/16W			< CAPACITOR >	
R355	1-216-829-11	METAL CHIP	4.7K 5% 1/16W				
R356	1-216-837-11	METAL CHIP	22K 5% 1/16W				
R357	1-216-837-11	METAL CHIP	22K 5% 1/16W				
				C901	1-161-485-00	CERAMIC 0.1uF 50V	
R358	1-216-833-11	METAL CHIP	10K 5% 1/16W	C902	1-126-941-11	ELECT 470uF 20.00% 25V	
R366	1-216-823-11	METAL CHIP	1.5K 5% 1/16W			< DIODE >	
R367	1-216-823-11	METAL CHIP	1.5K 5% 1/16W				
R368	1-216-823-11	METAL CHIP	1.5K 5% 1/16W				
R369	1-216-823-11	METAL CHIP	1.5K 5% 1/16W	D901	8-719-200-02	DIODE 1N4001	
				D902	8-719-200-02	DIODE 1N4001	
R370	1-216-823-11	METAL CHIP	1.5K 5% 1/16W	D903	8-719-200-02	DIODE 1N4001	
R901	1-216-789-11	METAL CHIP	2.2 5% 1/16W	D904	8-719-200-02	DIODE 1N4001	
R902	1-216-789-11	METAL CHIP	2.2 5% 1/16W	D905	8-719-991-33	DIODE 1SS133T-72	
R903	1-247-807-31	CARBON	100 5% 1/4W			< FUSE >	
R904	1-216-825-11	METAL CHIP	2.2K 5% 1/16W				
				△F902	1-576-624-11	FUSE T3.15AL 250V	
R905	1-216-809-11	METAL CHIP	100 5% 1/16W			< CONNECTOR >	
R906	1-216-809-11	METAL CHIP	100 5% 1/16W				
R907	1-216-838-11	METAL CHIP	27K 5% 1/16W				
R908	1-216-838-11	METAL CHIP	27K 5% 1/16W				
R909	1-249-419-11	CARBON	1.5K 5% 1/4W F	FW901	1-817-542-11	CONNECTOR 11P	
						< RELAY >	
R910	1-247-807-31	CARBON	100 5% 1/4W				
R911	1-216-817-11	METAL CHIP	470 5% 1/16W	△RY901	1-755-276-11	RELAY, POWER	
R912	1-216-844-11	METAL CHIP	82K 5% 1/16W			< TRANSFORMER >	
R913	1-216-807-11	METAL CHIP	68 5% 1/16W				
R914	1-216-833-11	METAL CHIP	10K 5% 1/16W				
				△T902	1-439-735-11	TRANSFORMER, POWER	
R915	1-216-829-11	METAL CHIP	4.7K 5% 1/16W			*****	
R916	1-216-817-11	METAL CHIP	470 5% 1/16W				

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

CX-LFA600

Ref. No.	Part No.	Description	Remarks
		MISCELLANEOUS	

3	1-693-619-11	TUNER (FM/AM)	
5	1-773-009-11	WIRE (FLAT TYPE) (15 CORE)	
65	1-796-351-51	MECHANISM, SINGLE CASSETTE	
△ 102	1-555-795-00	CORD, POWER	
202	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)	
△ 203	A-4735-189-A	BU-30(61) ASSY	
△ T901	1-443-129-11	TRANSFORMER, POWER	

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

MEMO

REVISION HISTORY

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

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