ORDER NO.AD0604020CE

Service Manual

CD Stereo System

Digital Audio Broadcasting

COMPACT disc DIGITAL AUDIO

SC-EN29EB

Remote Control Transmitter

SA-EN29

SB-EN7

Colour

(S).....Silver Type

System

ISC-EN29EB

Main Unit: SA-EN29EB

Speakers: SB-EN7P

Specification

Main Unit	
Radio	
Frequency range	
FM	
	87.50 - 108.00 MHz (50 kHz steps)
AM	522 - 1629 kHz (9 kHz steps)
DAB	
Frequency range	
Band III	5A-13F (174.928-239.200 MHz)
CD Player	
Sampling frequency	44.1kHz
Decoding	16 bit linear
Beam source	
	Semiconductor laser (wavelength 780 nm)
Number of channels	2 channel, stereo
Wow and flutter	
	Less than possible measurement data
D/A converter	MASH (1 bit DAC)
Teminals	
Input	AUX: 3.5 mm stereo (27 kΩ)
	DAB EXT ANT: F-Connector (75 Ω)
Output	PHONES: 3.5 mm stereo (32 Ω)
	LINE OUT: 3.5 mm stereo (2.2 kΩ)
General	
Power supply	AC 230 - 240 V, 50 Hz
AC adaptor	DC 13 V, 1.5 A
Power consumption	30 W
Dimensions (W x H x D)	240 x 216 x 170 mm
Speakers	
Full range	8 cm, 3 Ω × 2
Ceramic tweeter	1.52 cm × 2
Dimensions (W x H x D)	107 x 230 x 165 mm
Mass	
With speakers	3.1 kg
Without speakers	1.7 kg
Power consumption in standby mode	
	2.6 W

Notes:

1.Specifications are subject to change without notice.

2.Mass and dimensions are approximate.

Panasonic®

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Caution for AC Mains Lead

(For "EB" area code model only.)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OFF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

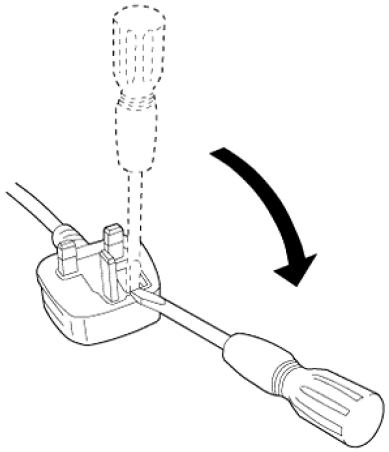
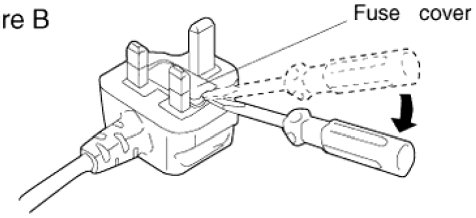


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

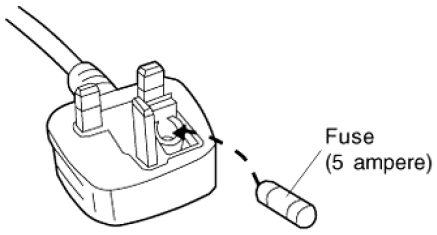
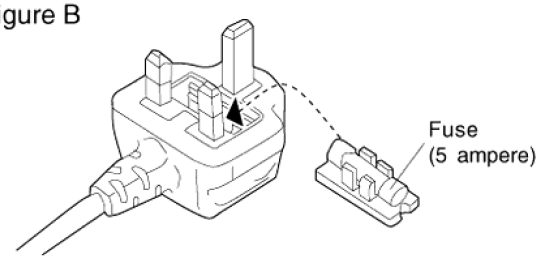


Figure B



2 Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.
- Stop during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are “shorted”, or if speaker with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outline below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note:

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

3 Accessories

- Remote control (EUR7711130).....1pc.
- AC adaptor (RFAW2646).....1pc.
- AM loop antenna (G0zz00002036).....1pc.
- DAB “T” antenna (N1EADY000001).....1pc.
- Battery.....2pcs.

4 Handling Precautions For Traverse Deck (Optical Pickup)

The laser diode in the traverse deck (optical pickup) may break down due to potential caused by static electricity of clothes or human body. So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

- **Handling of traverse deck (optical pickup)**
  1. Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.
  2. To prevent the breakdown of the laser diode, an antistatic shorting pin is inserted into flexible board (FFC board) (Figure 1).
  3. Take care not to apply excessive stress to the flexible board (FFC board). When removing or connecting the short pin, finish the job in as short time as possible.
  4. Do not turn the variable resistor (laser power adjustment). It has already been adjusted.

- **Grounding for electrostatic breakdown prevention**
  1. Human body grounding (Figure 2)

     Use the anti-static wrist strap to discharge the static electricity from your body.
  2. Work table grounding (Figure 2)

     Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is place, and ground the sheet.

Caution:

The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).

Caution when replacing the Traverse Deck

The traverse deck has a short point shorted with solder to protect the laser diode against electrostatics breakdown. Be sure to remove the solder from the short point before making connections.

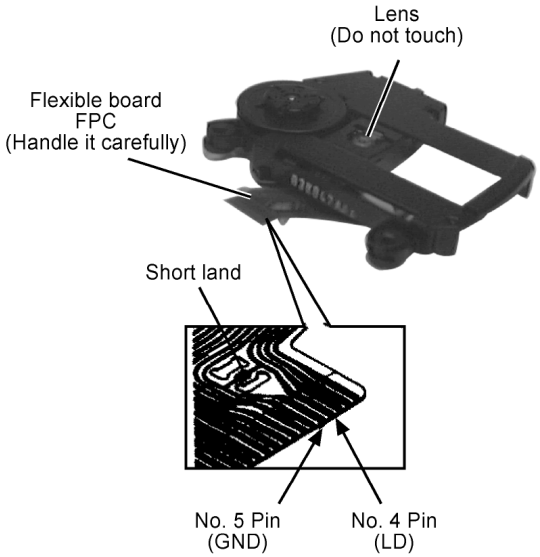


Figure 1

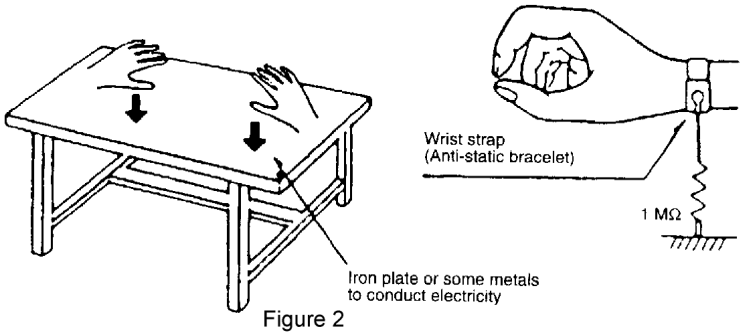


Figure 2

5 Precaution of Laser Diode

Caution :

This product utilizes a laser diode with the unit turned "ON", invisible laser radiation is emitted from the pick up lens.
Wavelength : 780 nm
Maximum output radiation power from pick up : 100 µW/VDE
Laser radiation from pick up unit is safety level, but be sure the followings:

1. Do not disassemble the optical pick up unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pick up unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pick up lens for a long time.

ACHTUNG :

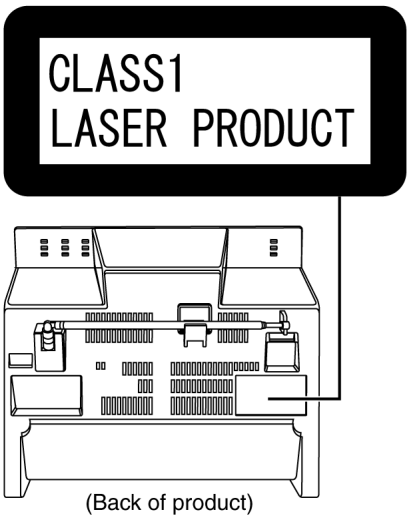
Dieses Produkt enthält eine Laserdiode. Im eingeschalteten Zustand wird unsichtbare Laserstrahlung von der Lasereinheit abgestrahlt.
Wellenlänge : 780nm
Maximale Strahlungsleistung der Lasereinheit :100 µW/VDE
Die Strahlung an der Lasereinheit ist ungefährlich, wenn folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlinse blicken.
4. Nicht über längere Zeit in die Fokussierlinse blicken.

ADVARSEL: I dette a apparat anvendes laser.

CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

n Use of caution label



(Back of product)

CAUTION	INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM. (IEC60825-1/Class 3b)
ATTENTION	RAYONNEMENT LASER INVISIBLE DANGEREUX EN CAS D'OUVERTURE ET. LORSQUE LA SÉCURITÉ EST NEUTRALISÉE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTÖNTÄ LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
VORSICHT	UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.
ADVARSEL	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN. RQLXS0053

(Inside of product)

6 Prevention of Electro Static Discharge (ESD) To Electrostatically (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES Devices are integrated circuits and some field-effect transistors and semiconductor “chip” components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, Which should be removed for potential shock resons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal devices. Some solder removal devices not classified as “anti-static (ESD protected)” can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices.(Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

7 Handling the Lead-free Solder

7.1. About lead free solder (PbF)

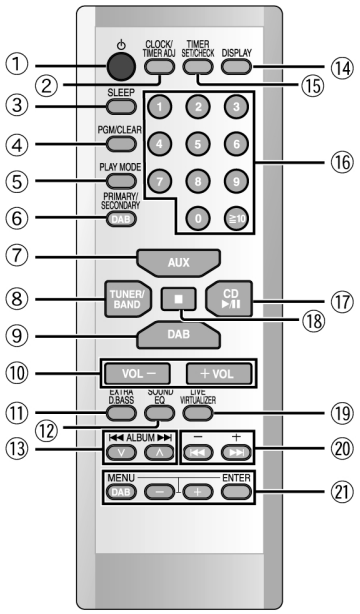
Distinction of PbF P.C.B.:

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

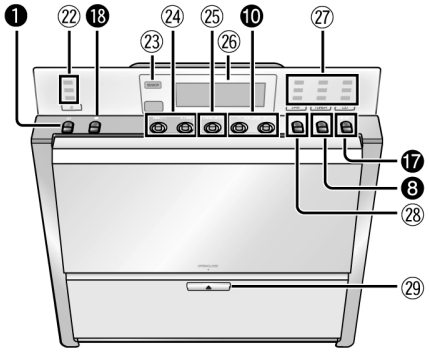
Caution

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50-70°F (30 - 40°C) higher.Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700± 20 °F (370 ± 10°C).
- Pb free solder will tent to splash when heated too high (about 1100°F/600°C).
- When soldering or unsoldering, please completely remove all of the solder on the pins and solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

8 Control Guide



The shaded buttons, such as ❶, function in the same way as the buttons on the remote control.



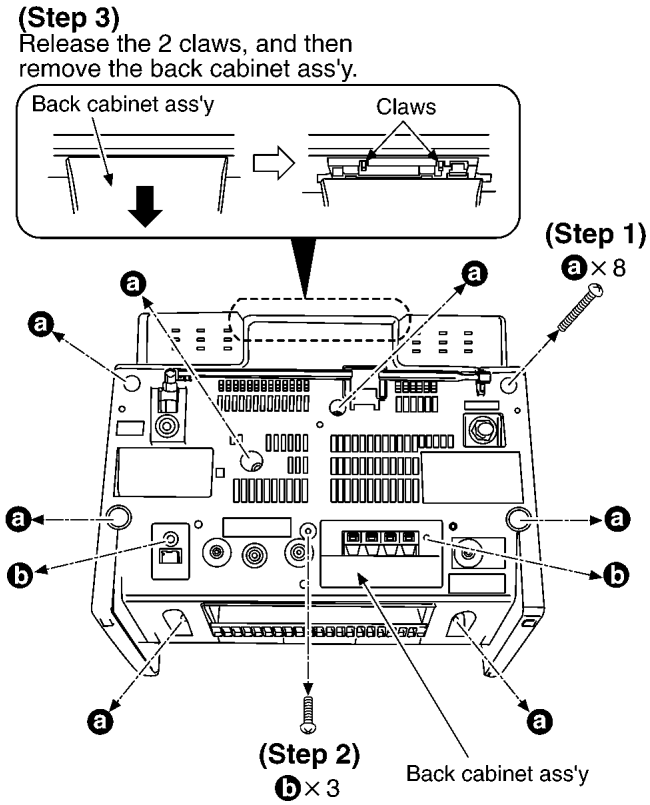
① **Standby/on switch [⏻/I, ⏻]**
Press to switch the unit from on to standby mode or vice versa.
In standby mode, the unit is still consuming a small amount of power.
The unit is in the standby condition (the [⏻] indicator lights) when the AC mains lead is connected.
The primary circuit is always “live” as long as the AC adaptor is connected to an electrical outlet.
② **Clock/timer adjust button [CLOCK/TIMER ADJ]**
③ **SLEEP timer button [SLEEP]**
④ **CD program/clear, FM/AM/DAB preset button [PGM/CLEAR]**
⑤ **Play mode button [PLAY MODE]**
⑥ **DAB primary/secondary select button [PRIMARY/SECONDARY]**
⑦ **AUX button [AUX]**
⑧ **Tuner/band select button [TUNER/BAND]**
⑨ **DAB button [DAB]**
⑩ **Volume buttons [VOL –, + VOL]**
⑪ **Extra D.Bass button [EXTRA D.BASS]**
⑫ **Sound EQ button [SOUND EQ]**
⑬ **Album skip, FM/AM/DAB preset channel select buttons [∨, ∧, |◀◀ ALBUM ▶▶|]**
⑭ **Display button [DISPLAY]**
⑮ **Timer set/check button [TIMER SET/CHECK]**
⑯ **Numbered buttons [1–9, 0, ≧10]**
⑰ **CD play/pause button [CD ▶/❚❚]**
⑱ **CD stop button [■]**
⑲ **Live virtualizer button [LIVE VIRTUALIZER] ..**
⑳ **CD skip/search, FM/AM frequency select, DAB station tune, time adjust buttons [|◀◀, ▶▶|, –, +]**
㉑ **DAB menu buttons [MENU, –, +, ENTER]**

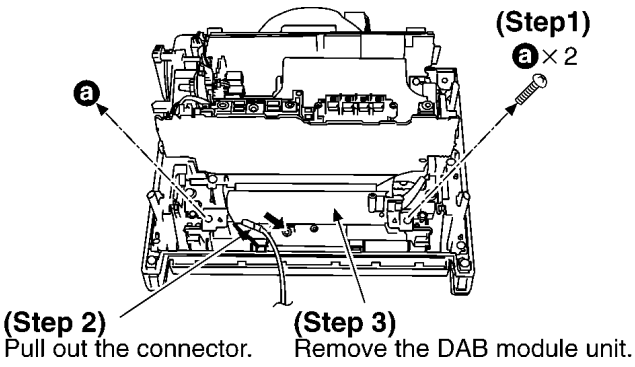
㉒ **Standby indicator**
When the unit is connected to the AC adaptor, this indicator lights up in standby mode and goes out when the unit is turned on.
㉓ **Remote control signal sensor**
㉔ **CD skip/search, FM/AM frequency select, DAB station tune, FM/AM/DAB preset channel select buttons [|◀◀/–, +/▶▶|]**
㉕ **Tuning mode select button [TUNING MODE]**
㉖ **Display**
㉗ **Function indicators**
The indicator lights up when each mode is chosen.
㉘ **DAB/DAB auto scan button [DAB]**
㉙ **CD open/close button [⏏ OPEN/CLOSE]**

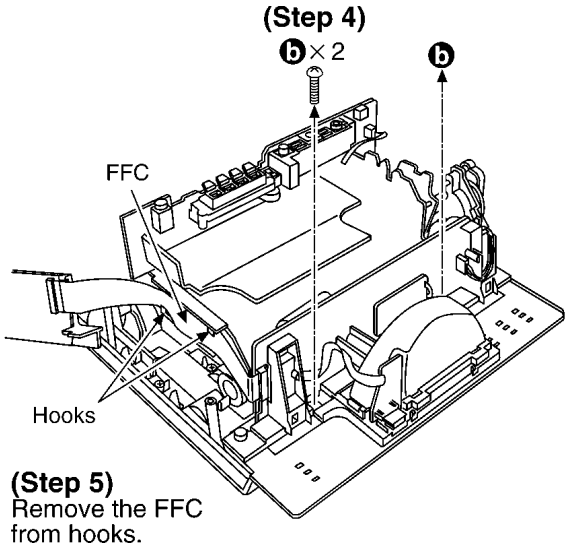
9 Operation Checks and Component Replacement Procedures

9.1. SA-EN29

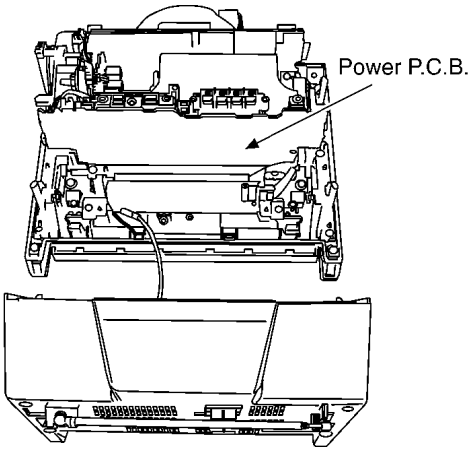
9.1.1. Checking for the power P.C.B.







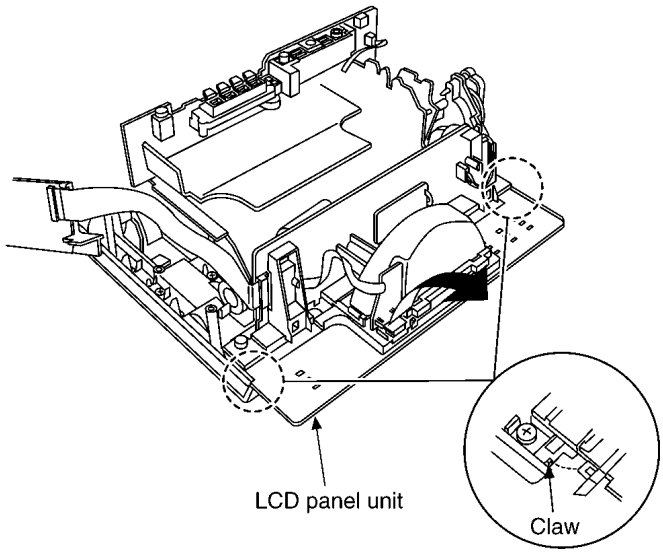
・Check the power P.C.B. as shown below.



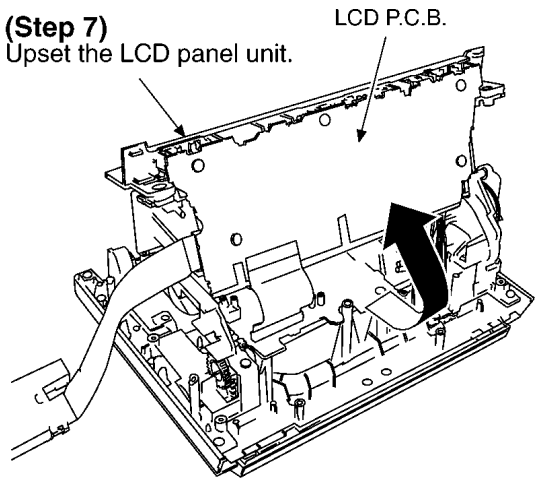
9.1.2. Checking for the LCD P.C.B.

・Follow the (Step1) - (Step3) of item 9.1.1.

(Step 6)
Release the 2 claws, and then remove the LCD panel unit in the direction of arrow.

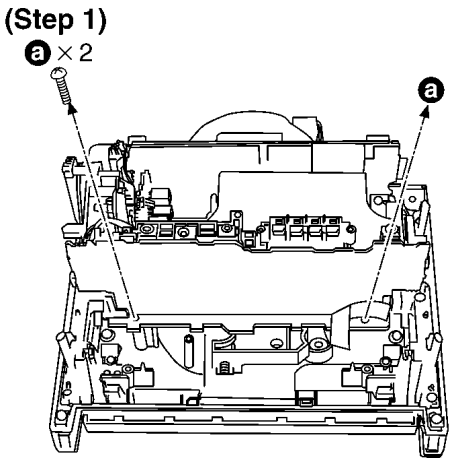


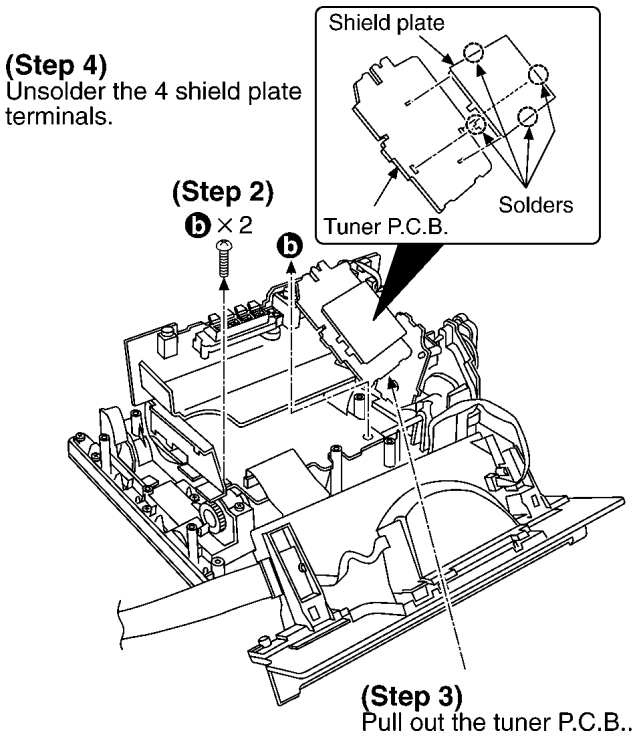
・Check the LCD P.C.B. as shown below.



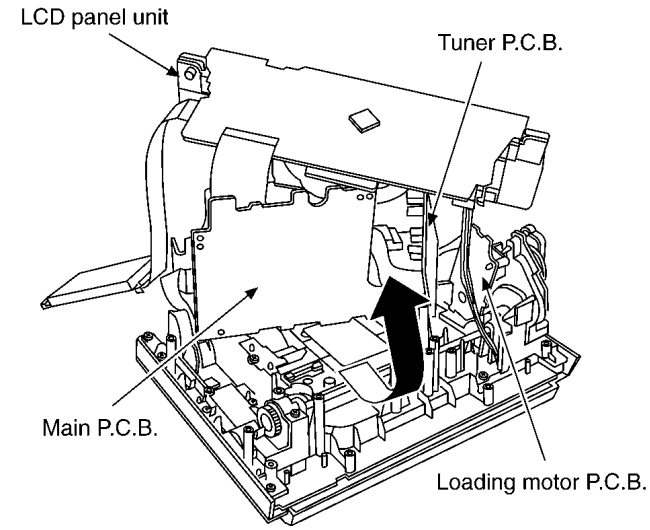
9.1.3. Checking for the main P.C.B., tuner P.C.B. and loading motor P.C.B.

- Follow the (Step1) - (Step3) of item 9.1.1.
- Follow the (Step1) - (Step6) of item 9.1.2.





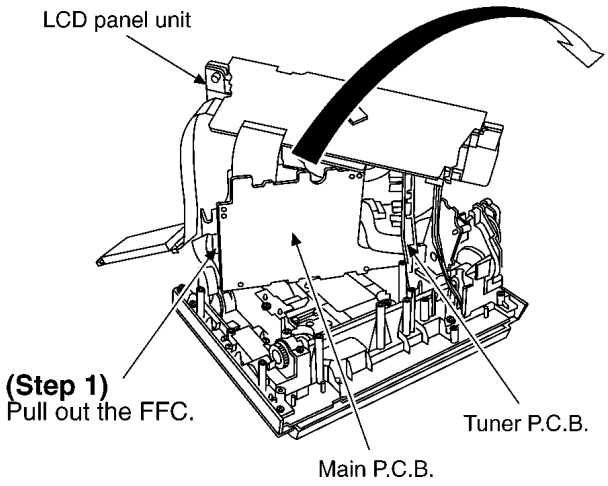
- Check the main P.C.B., tuner P.C.B. and loading motor P.C.B. as shown below.



9.1.4. Checking for the CD servo P.C.B.

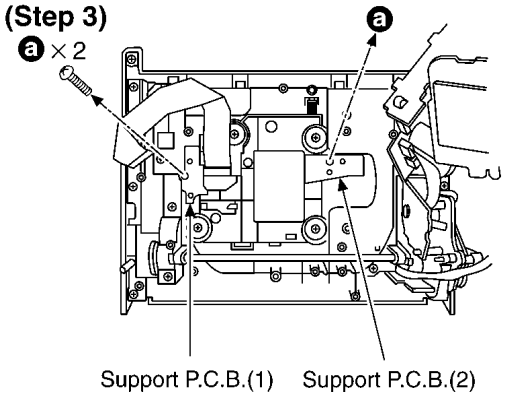
- Follow the (Step1) - (Step3) of item 9.1.1.
- Follow the (Step1) - (Step6) of item 9.1.2.
- Follow the (Step1) - (Step3), (Step5) of item 9.1.3.

(Step 2)
Move the LCD panel unit, main P.C.B. and tuner P.C.B. in the direction of arrow.

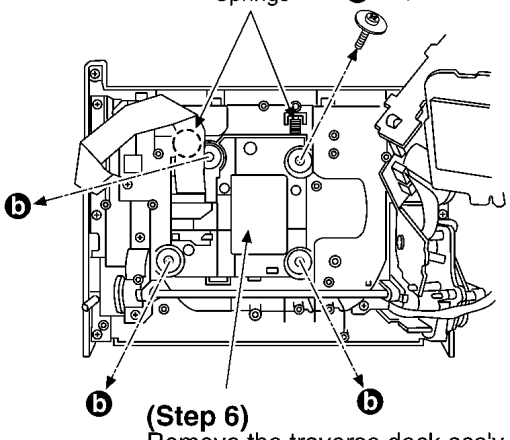


(Step 4)
Remove the support P.C.B.(1) and support P.C.B.(2).

(Step 3)
ⓐ × 2



(Step 5)
ⓑ × 4
Springs

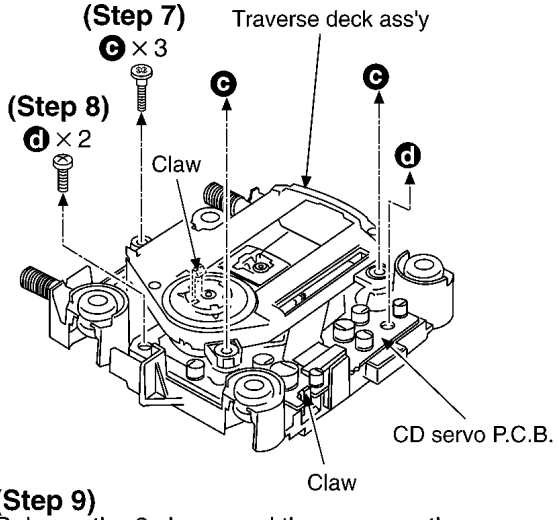


(Step 6)
Remove the traverse deck ass'y.

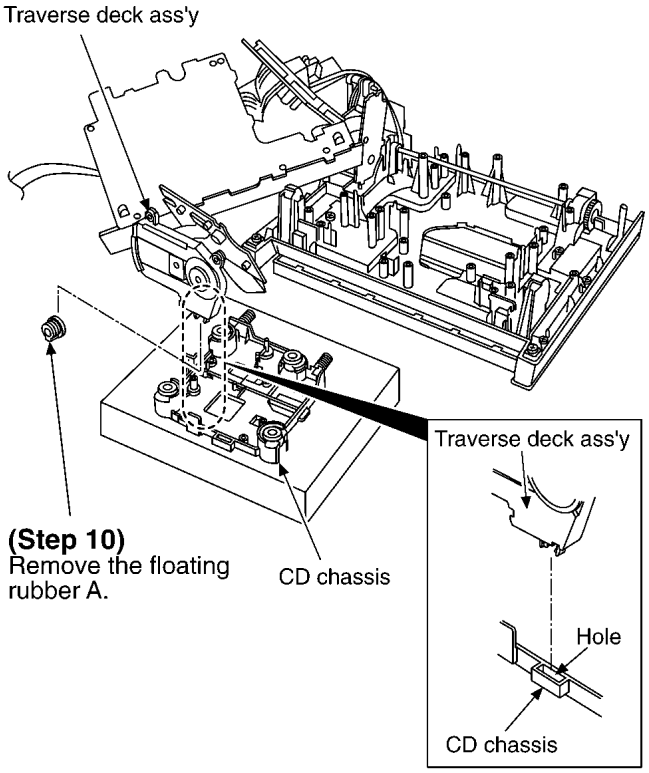
NOTE:
- While installing the traverse deck ass'y, insert the traverse deck ass'y into the depression by holding down the spring. Make sure that the spring does not pop out from the depression.

(Step 7)
ⓒ × 3

(Step 8)
ⓓ × 2



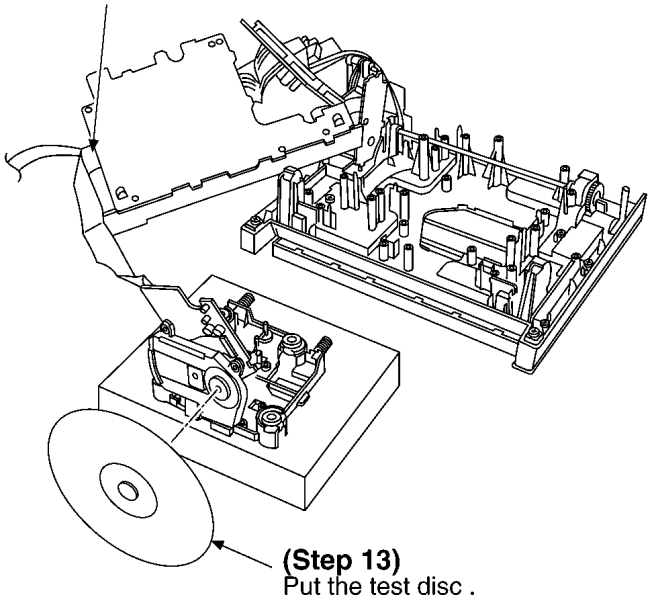
(Step 9)
Release the 2 claws, and then remove the traverse deck ass'y and CD servo P.C.B..



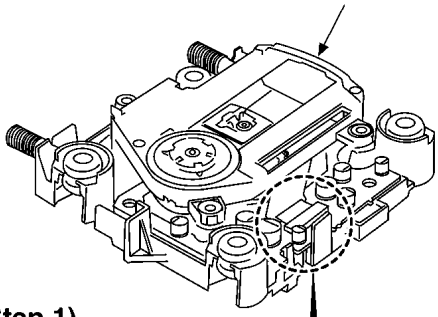
(Step 10)
Remove the floating rubber A.

(Step 11)
Stand the traverse deck ass'y inserting the hole of CD chassis.

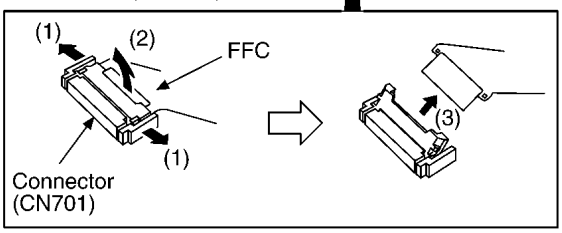
(Step 12)
Connect the FFC.



(Step 2)
Remove the traverse deck ass'y.

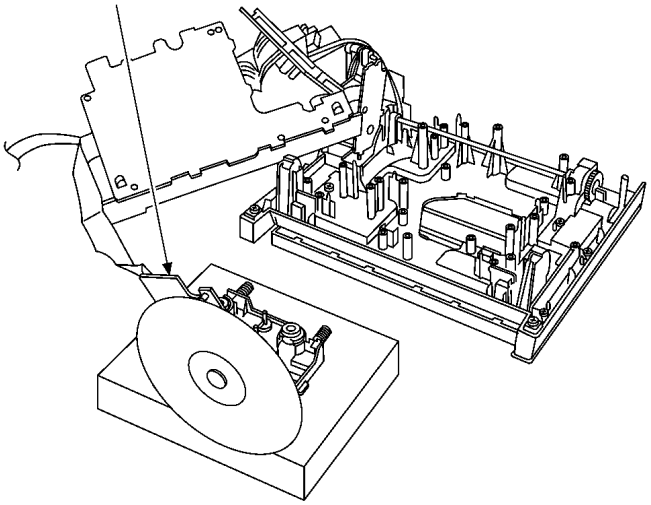


(Step 1)
Pull out the FFC from connector (CN701).

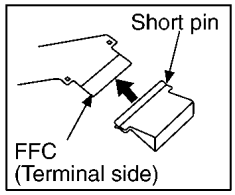


· Checking the CD servo P.C.B. as shown below.

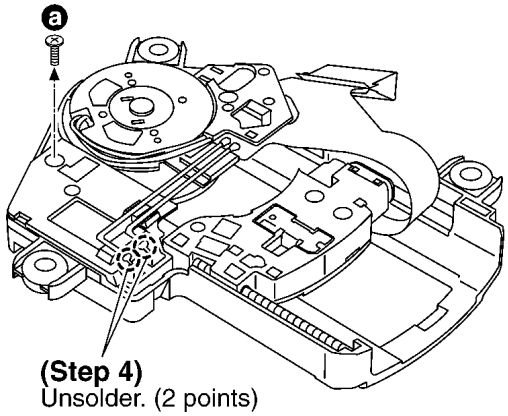
CD servo P.C.B.



NOTE:
Insert a short pin into FFC(Terminal side) of the traverse deck.
(Refer to "**Handling Precautions for Traverse Deck**".)

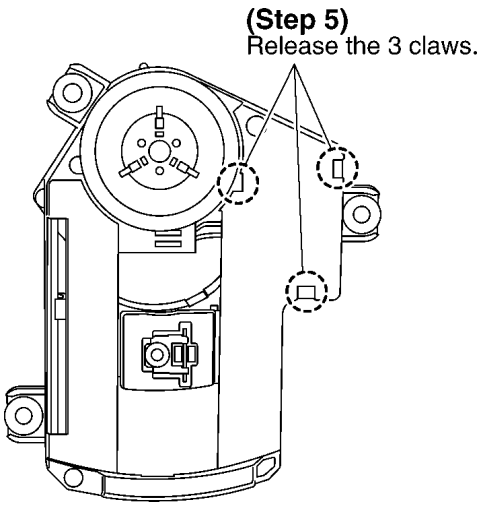


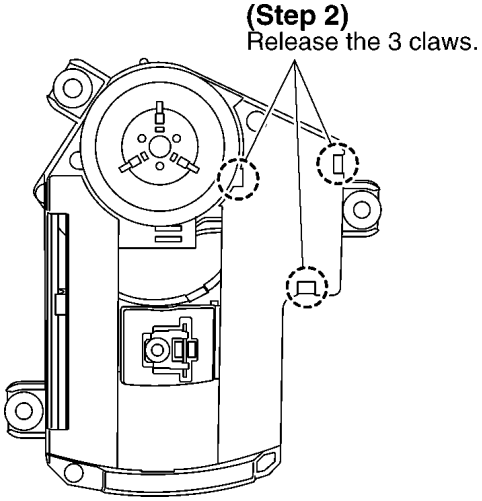
(Step 3)

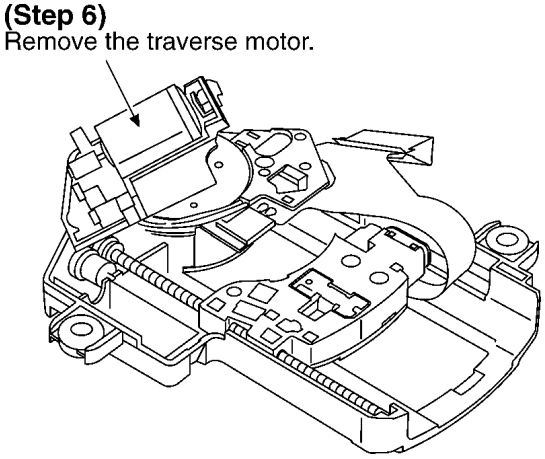


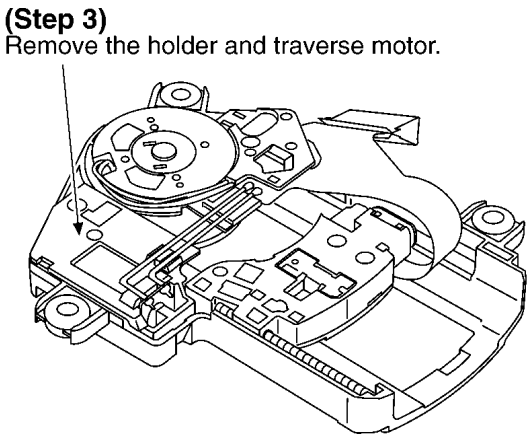
9.1.5. Replacement for the traverse motor

· Follow the (Step1) - (Step3) of item 9.1.1.
· Follow the (Step1) - (Step6) of item 9.1.2.
· Follow the (Step1) - (Step3), (Step5) of item 9.1.3.
· Follow the (Step1) - (Step7) of item 9.1.4.



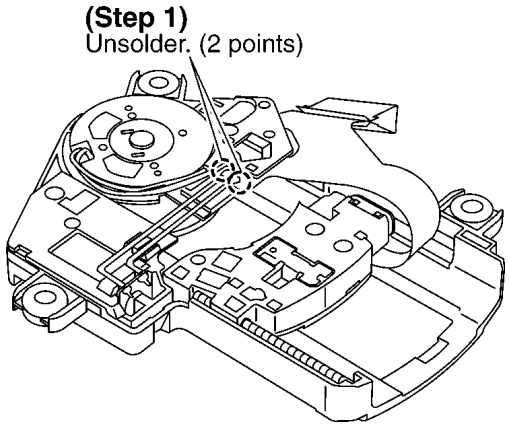


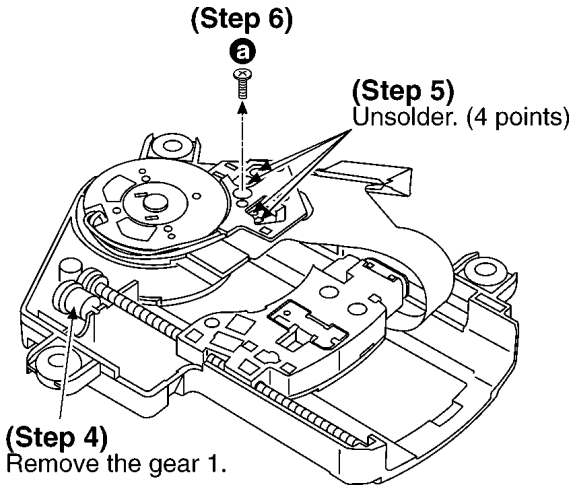




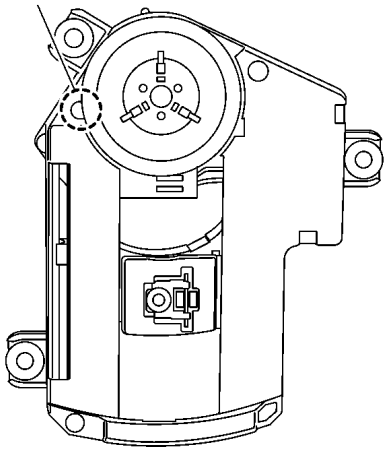
9.1.6. Replacement for the optical pick-up

- Follow the (Step1) - (Step3) of item 9.1.1.
- Follow the (Step1) - (Step6) of item 9.1.2.
- Follow the (Step1) - (Step3), (Step5) of item 9.1.3.
- Follow the (Step1) - (Step7) of item 9.1.4.
- Follow the (Step1) - (Step3) of item 9.1.5.

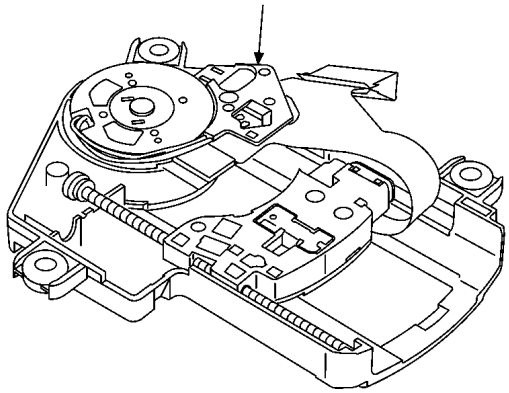




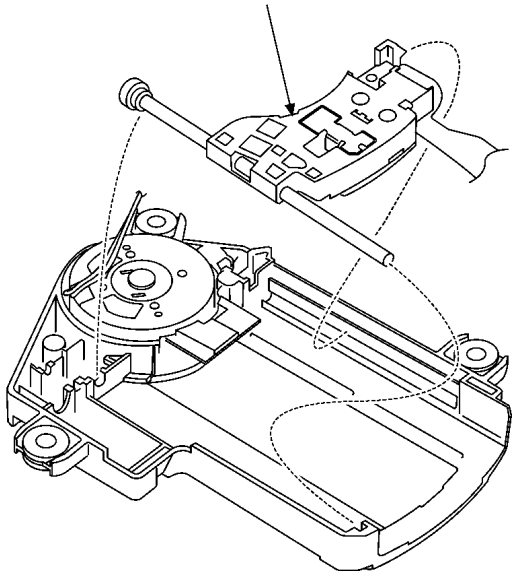
(Step 7)
Release the claw.



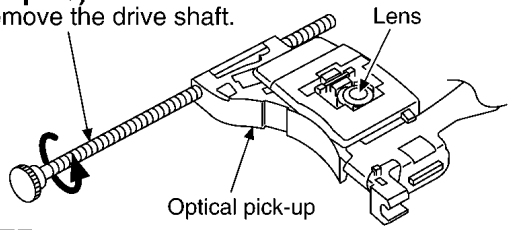
(Step 8)
Remove the FFC holder.



(Step 9)
Remove the optical pick-up ass'y.



(Step 10)
Remove the drive shaft.

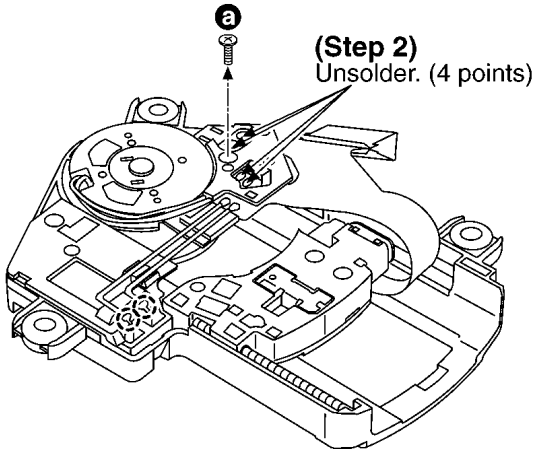


NOTE:
1. Use care to prevent damage the optical pick-up, due to the precision construction.
2. Do not apply the grease on the lens of optical pick-up.
3. Do not touch the lens of the optical pick-up.

9.1.7. Replacement for the rest switch

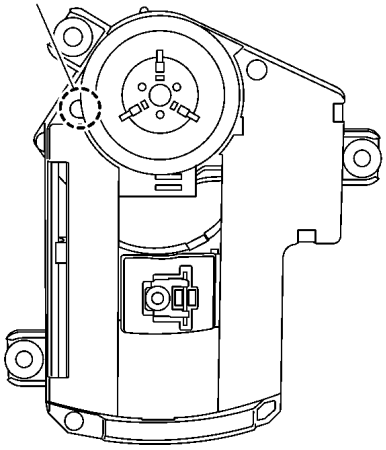
- Follow the (Step1) - (Step3) of item 9.1.1.
- Follow the (Step1) - (Step6) of item 9.1.2.
- Follow the (Step1) - (Step3), (Step5) of item 9.1.3.
- Follow the (Step1) - (Step7) of item 9.1.4.
- Follow the (Step1), (Step2) of item 9.1.5.

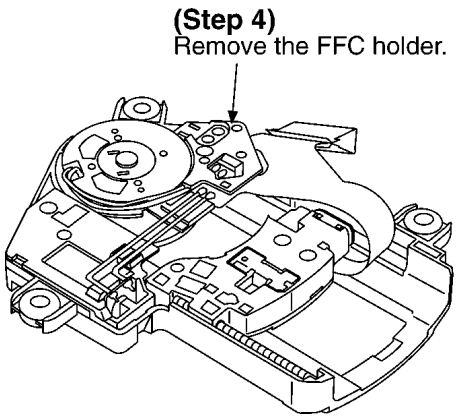
(Step 1)

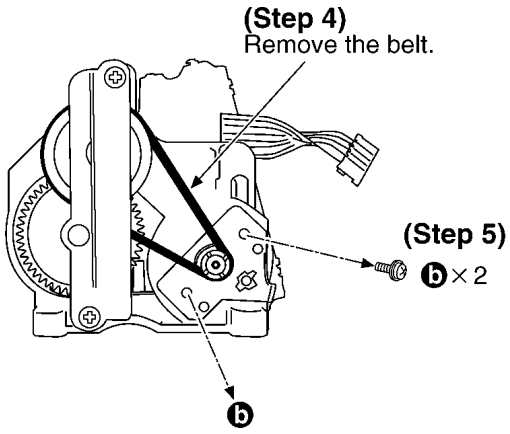


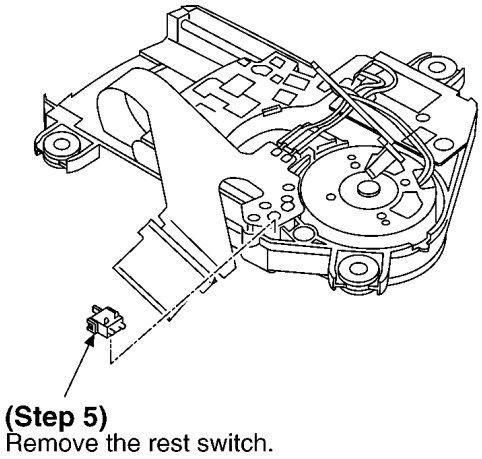
(Step 2)
Unsolder. (4 points)

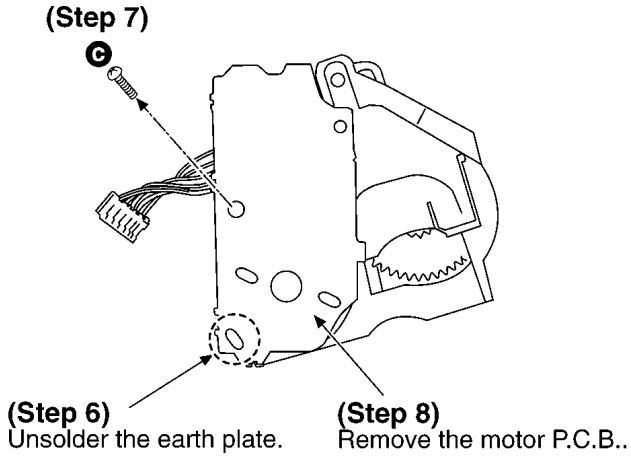
(Step 3)
Release the claw.





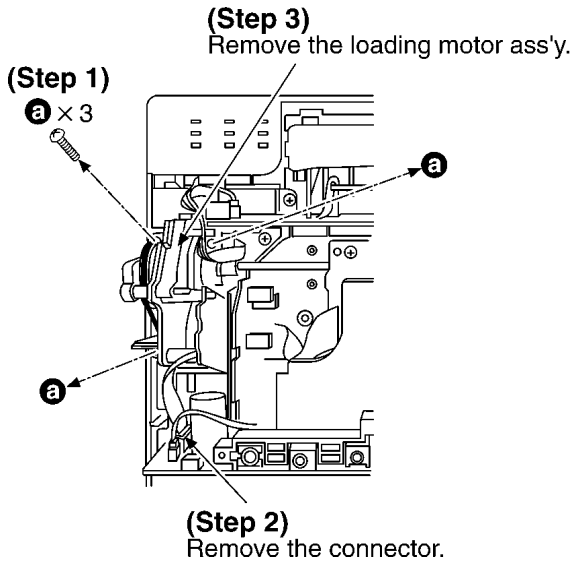


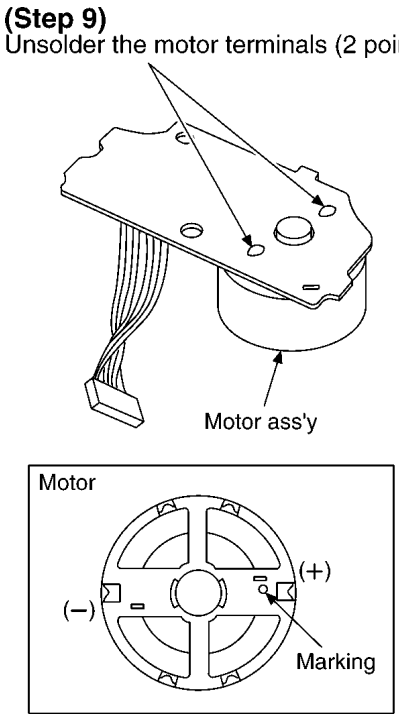




9.1.8. Replacement for the motor

・Follow the (Step1) - (Step3) of item 9.1.1.





9.1.9. Replacement for the gear holder, gear A ass'y, gear B and rack

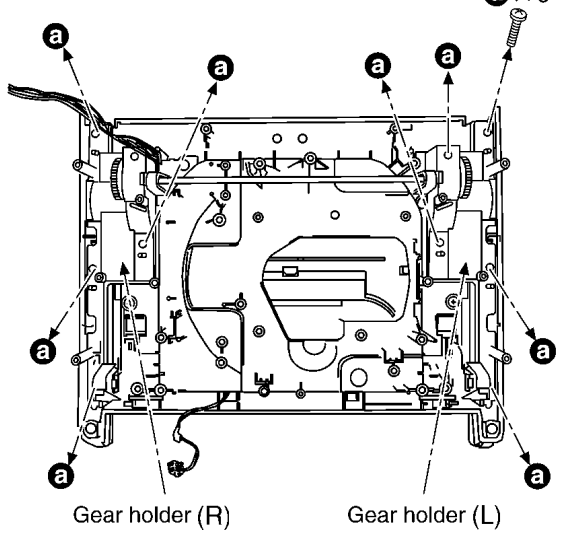
・Follow the (Step1) - (Step3) of item 9.1.1.

・Follow the (Step1) - (Step6) of item 9.1.2.

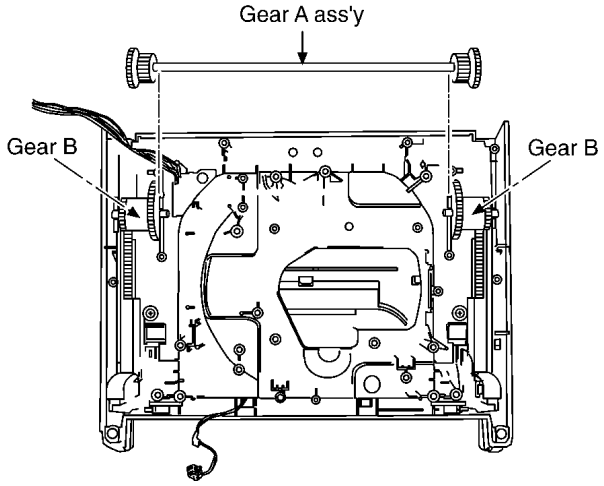
・Follow the (Step1) - (Step3), (Step5) of item 9.1.3.
・Follow the (Step1) - (Step7) of item 9.1.4.

(Step 2)
Remove the gear holder (L) and gear holder (R).

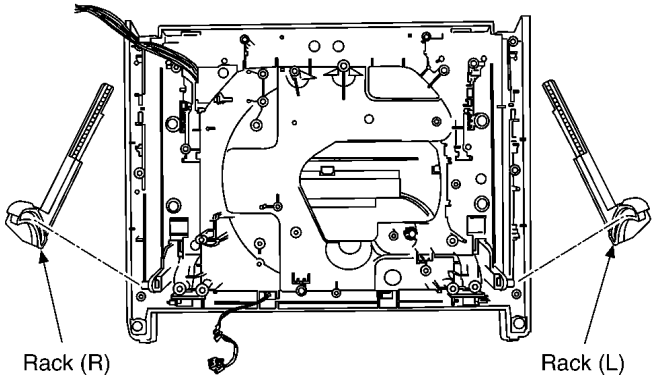
(Step 1)
ⓐ × 9



(Step 3)
Remove the gear A ass'y and two gears B.



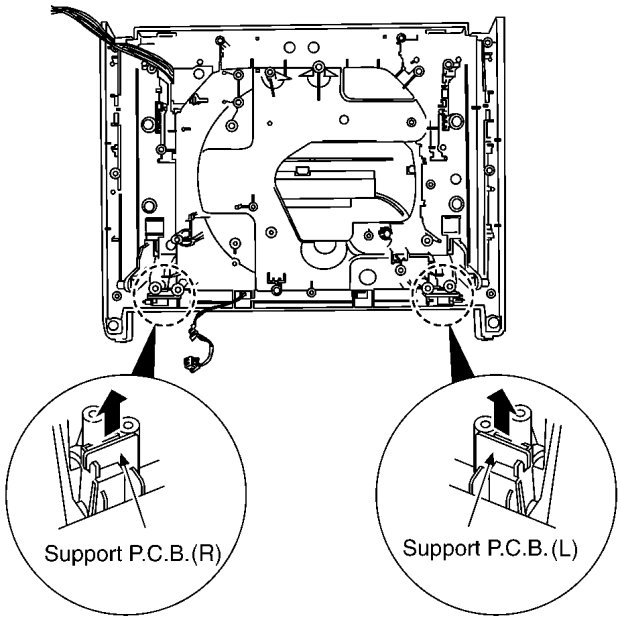
(Step 4)
Remove the rack (L) and rack (R).



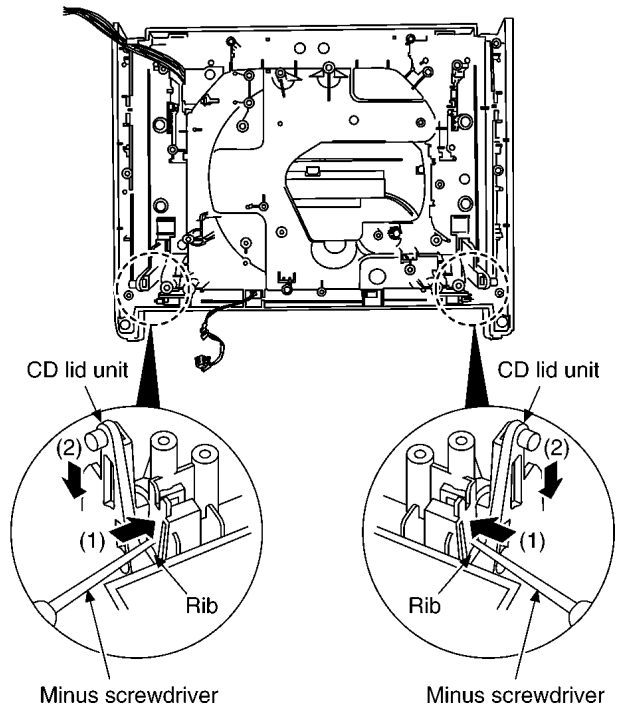
9.1.10. Replacement for the CD lid unit and CD eject P.C.B.

・Follow the (Step1) - (Step3) of item 9.1.1.
・Follow the (Step1) - (Step6) of item 9.1.2.
・Follow the (Step1) - (Step3), (Step5) of item 9.1.3.
・Follow the (Step1) - (Step6) of item 9.1.4.
・Follow the (Step1) - (Step4) of item 9.1.9.

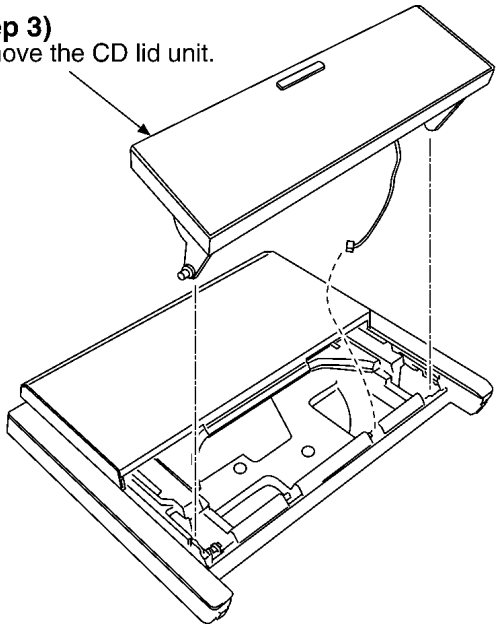
(Step 1)
Pull out the support P.C.B. (L) and support P.C.B. (R).

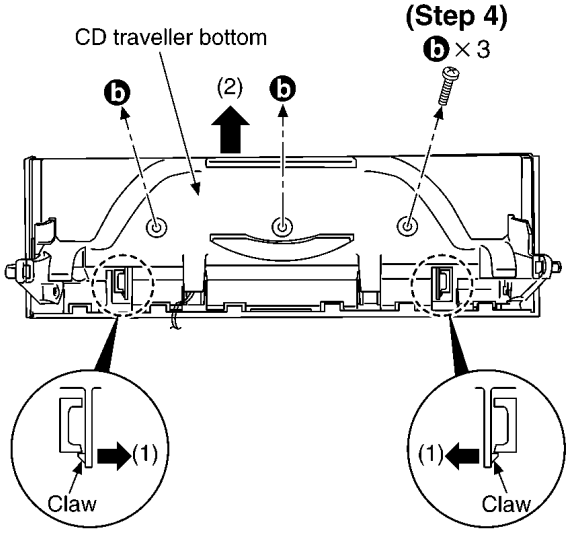


(Step 2)
With pressing the rib in the direction of arrow (1), remove the CD lid unit in the direction of arrow (2).

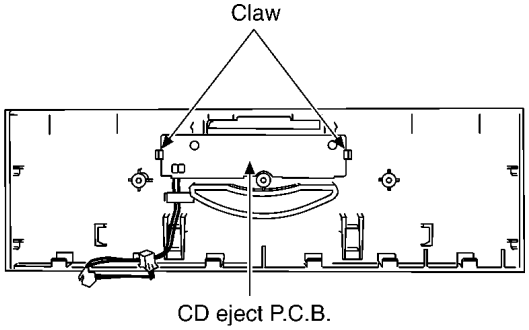


(Step 3)
Remove the CD lid unit.





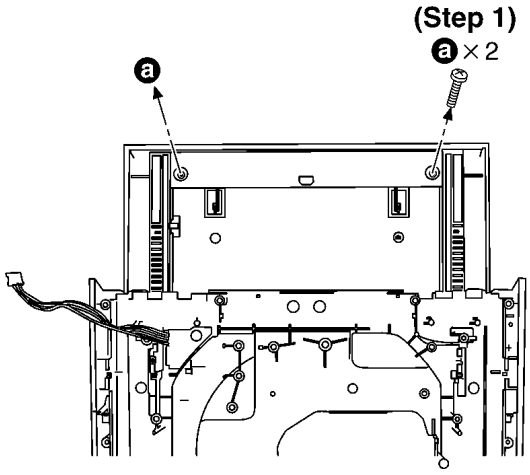
(Step 5)
With pressing the claw in the direction of arrow (1), remove the CD traveller bottom in the direction of arrow (2).



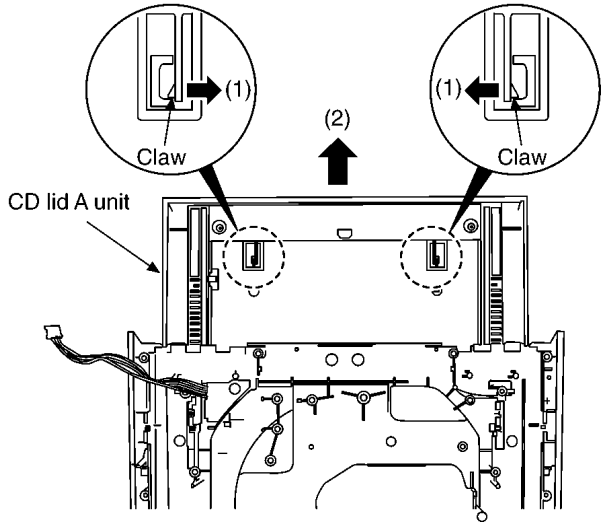
(Step 6)
Release the 2 claws, and then remove the CD eject P.C.B..

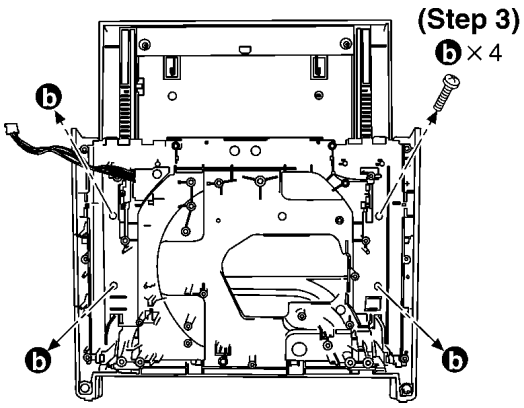
9.1.11. Replacement for the CD traveller holder and CD traveller upper

- Follow the (Step1) - (Step3) of item 9.1.1.
- Follow the (Step1) - (Step6) of item 9.1.2.
- Follow the (Step1) - (Step3), (Step5) of item 9.1.3.
- Follow the (Step1) - (Step7) of item 9.1.4.
- Follow the (Step1) - (Step4) of item 9.1.9.

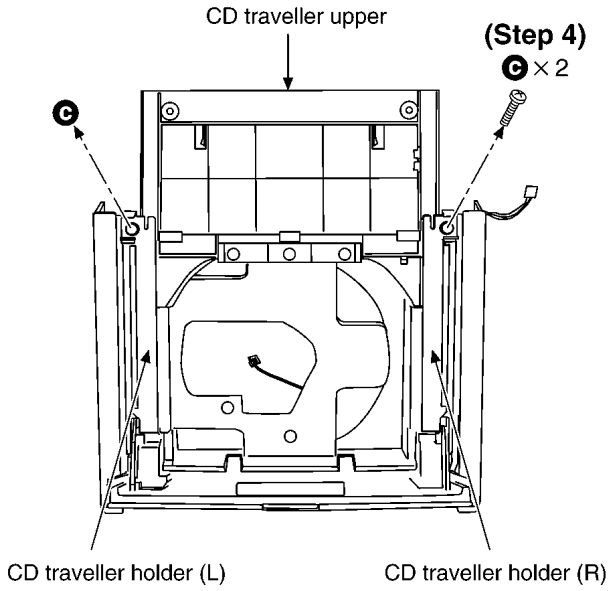


(Step 2)
With pressing the claw in the direction of arrow (1), remove the CD lid A unit in the direction of arrow (2).



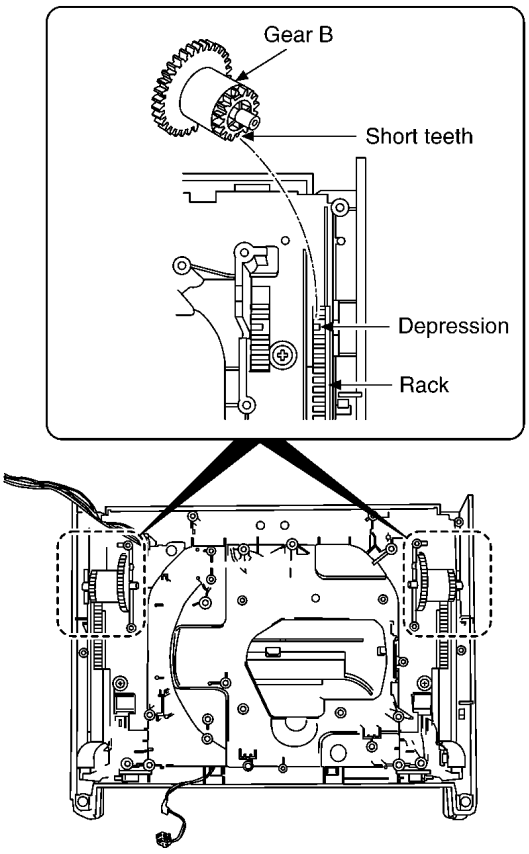


(Step 5)
Remove the CD traveller holder (L), CD traveller holder (R) and CD traveller upper.



Notice for installation of gear B

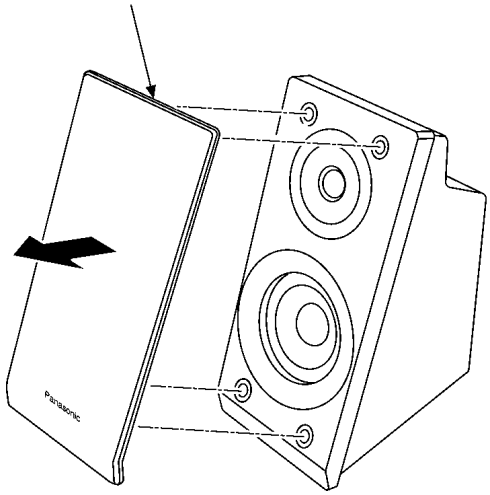
- Install the gear B by engaging the short teeth of gear B and the depression of rack.

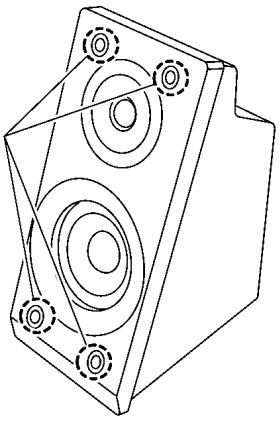


9.2. SB-EN7

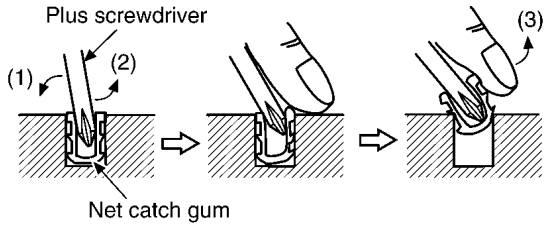
9.2.1. Removal of the net catch gum

(Step 1)
Remove the net frame ass'y.



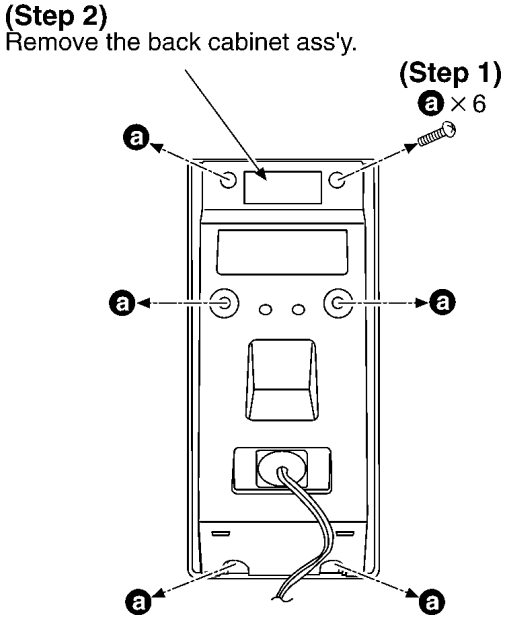


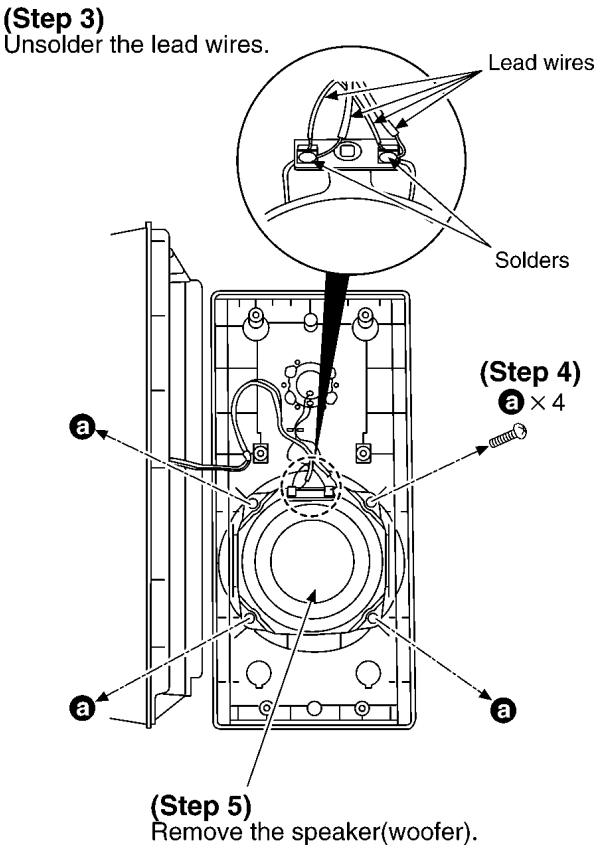
■ Removal of the net catch gum



1. Insert the plus screwdriver or similar tool into net catch gum, push in slightly in the direction of arrow (1) to avoid scratching, the cabinet ass'y and lift in the direction of arrow (2).
2. After lifting the net catch gum, grasp it with your finger and remove in the direction of arrow (3).

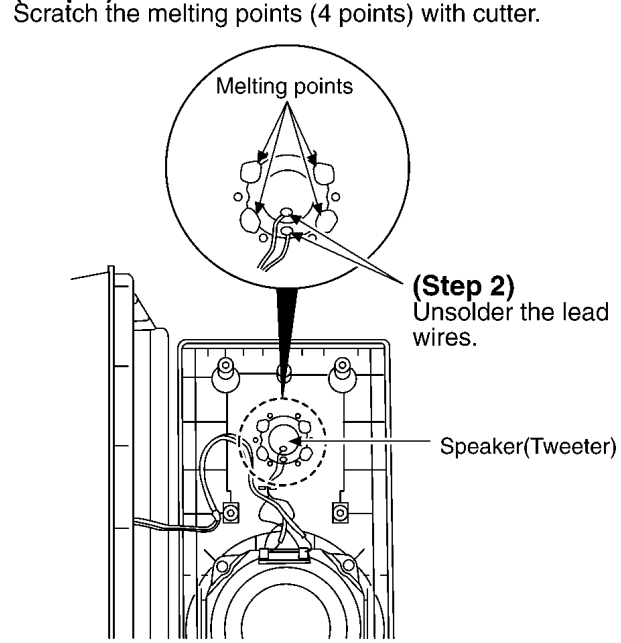
9.2.2. Removal of the speaker(Woofer)





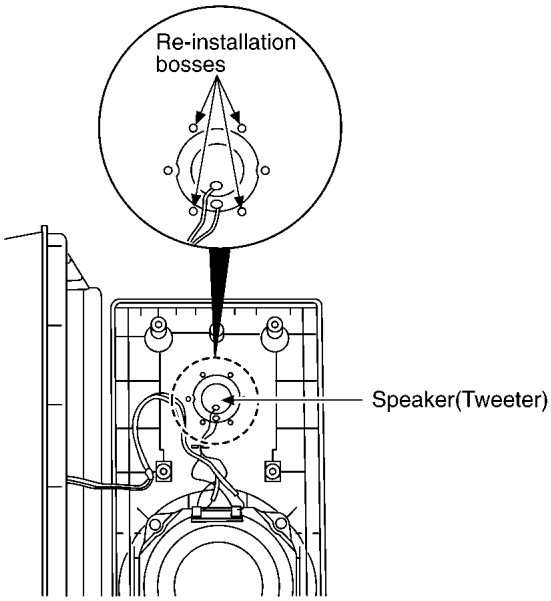
9.2.3. Removal of the speaker(Tweeter)

・Follow the (Step1), (Step2) of item 9.2.2.



Notice for installation of speaker(Tweeter)

- After replacement, install the speaker with melting the re-installation bosses (4 points).

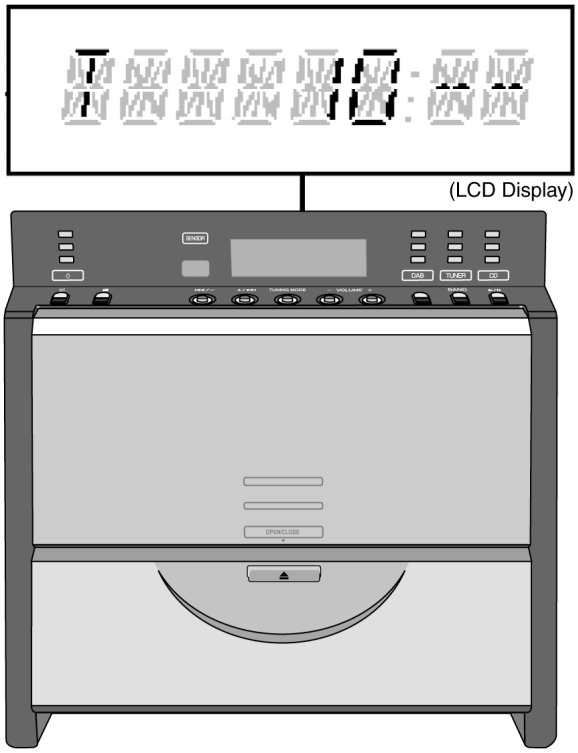


10 Self Diagnostic Function

10.1. Setting of self diagnostic Function

10.1.1. Setting of self diagnostic mode

1. To enter into self-diagnostic mode:
   - Press & hold n (STOP) key,followed by ▶▶I / + key for more than 2 seconds.
2. LCD will show the following display as below:



Note:

Error code is displaying within each function in order of H → P (CD → MD → TAPE)

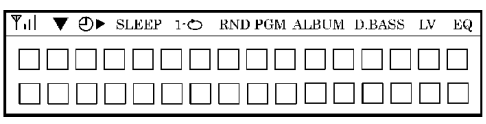
3. Error during Test:
   - Press & hold “TUNING MODE” key (> 2sec) will show blinking error code. If abnormality occurs during test, error code will be displayed.

     Example:

NOTE: Refer to error code table 12.1.

10.1.2. Test Mode Checking

1. Operation keys and all segment display check mode:
   - Activate the Self Diagnosis mode before performing the following steps
   - Press & hold the CD ▶/II key (>2 sec) will enter this mode.
   - When the keys of the main set is pressed, the various corresponding key functions shall light up and display that particular function. After all the main set keys were pressed, the LCD shows the following (Including CD LED):



2. CD auto adjustment test mode:

a. The result of auto adjustment will be show after TOC read.

・If no error during auto adjustment, the following display will be shown:

・Example:

3. CD lid OPEN/CLOSE aging test mode:

・Press & hold ▲/■ key (>5 sec) will enter this mode.

・This mode counts the number of times the CD lid open/close (MAX is 30000).

4. CD unit (240Z) and CD lid reliability test mode (Combination)

・Press & hold ▶▶I/+ key and CD ▶/II key (>2 sec) will enter into this test mode.

・This test is the combination of CD lid operation and the inner and outer disc access operation aging test.The testing process is as follow: TOC read → Play all tracks → CD STOP → CD lid OPEN → Wait for 1sec in OPEN state → CD lid CLOSE → Increment counter (Repeat the whole process).

10.1.3. Exiting from self-diagnostic mode

1. Press the POWER ON/OFF button eihter on the remote controller or main set to exit from Self-Diagnostic mode.
2. The content of abnormalities (error code) are kept as long as the microcontroller memory is backup.
3. If there is an error detected in RAM check at Reset, the content in the RAM shall be initialised and all the contents of abnormalities shall be cleared.
4. For force clearance, press “STOP” key while in self diagnostic mode.

“CLEAR” is displayed in upper row of LCD for one second followed by “T is”

10.2. Error Code

	Error Contents	Error Display
Common	PDET power fault	F76 PDET
DAB	DAB-PDET power fault	F76 DAB PDET
	DAB-LSI communication fault	F26 DAB LSI
	DAB-LSI DDOWFIC non-detection	F26 DAB DDOWFIC
	DAB-PLL communication fault	F26 DAB PLL
	DAB-PLL unlock	F56 DAB PLL
FM/AM		
CD	CD support LSI communication fault	F26 CD
	CD-REST-SW fault	F15 CD

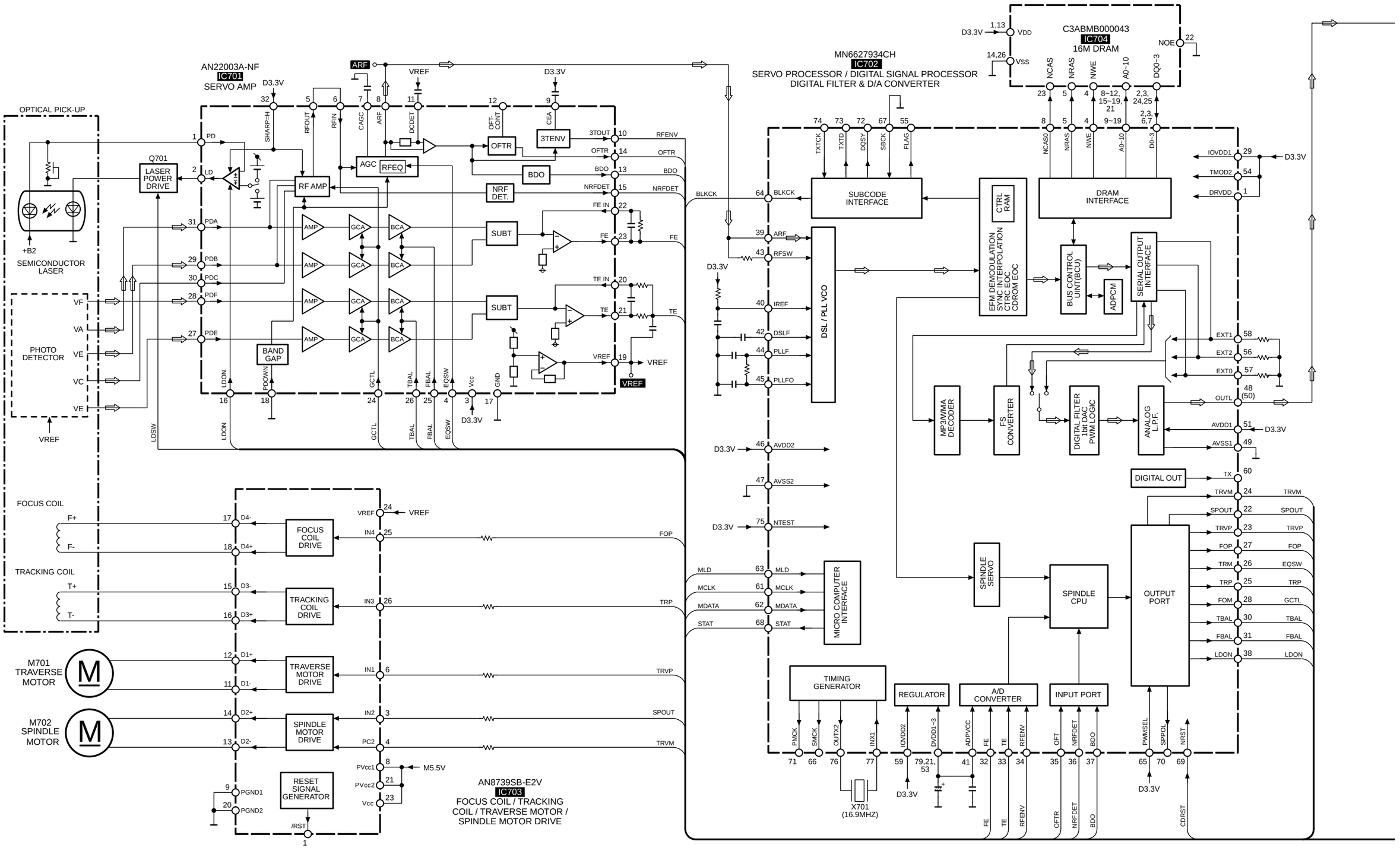
11 Description of Error Code

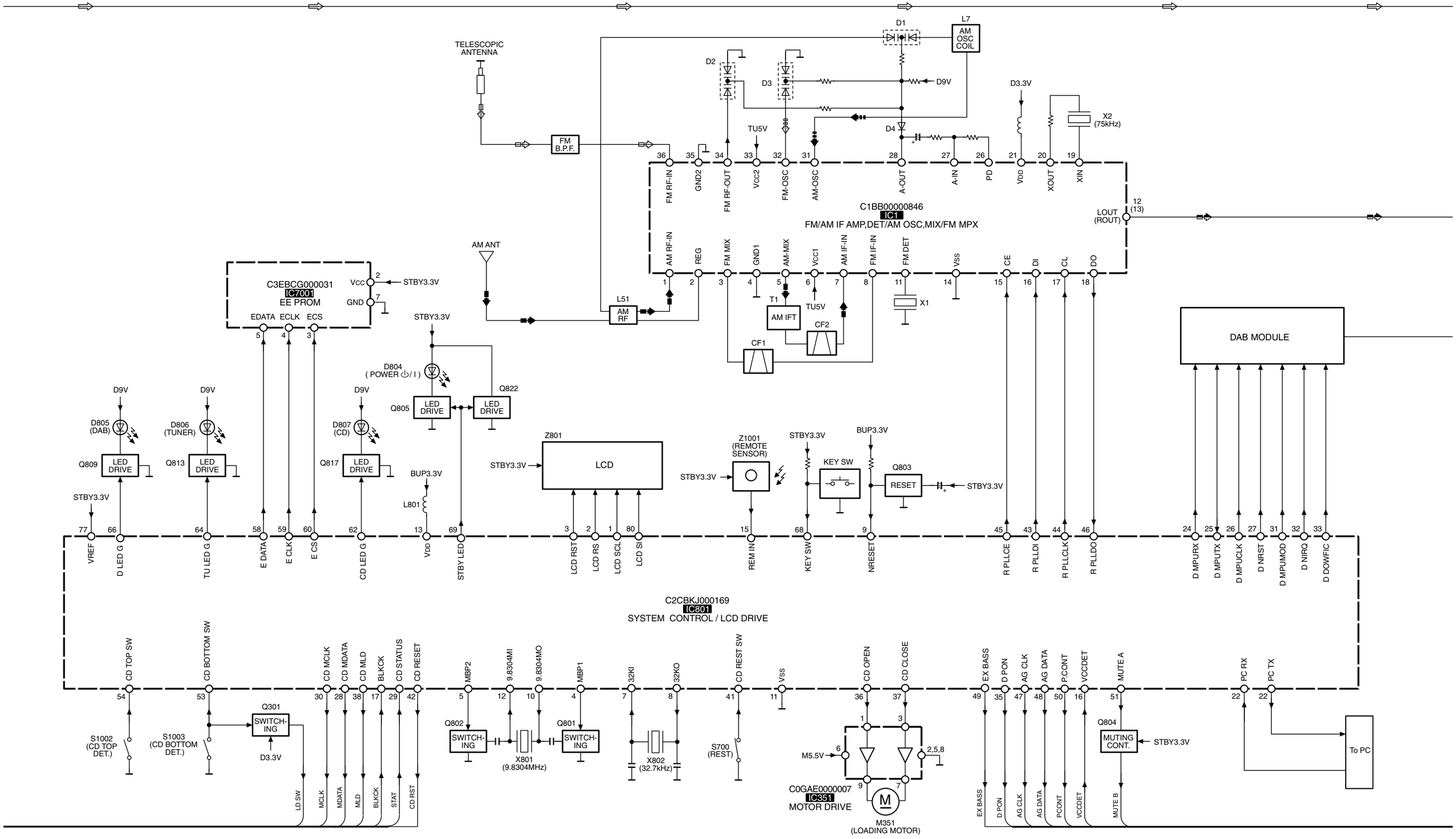
11.1. Error detection for CD Mechanism block

No.	Error	Error Display	Problem condition
1	CD Open Switch Error	H15	Detect error during opening operation and memorised it as an error.

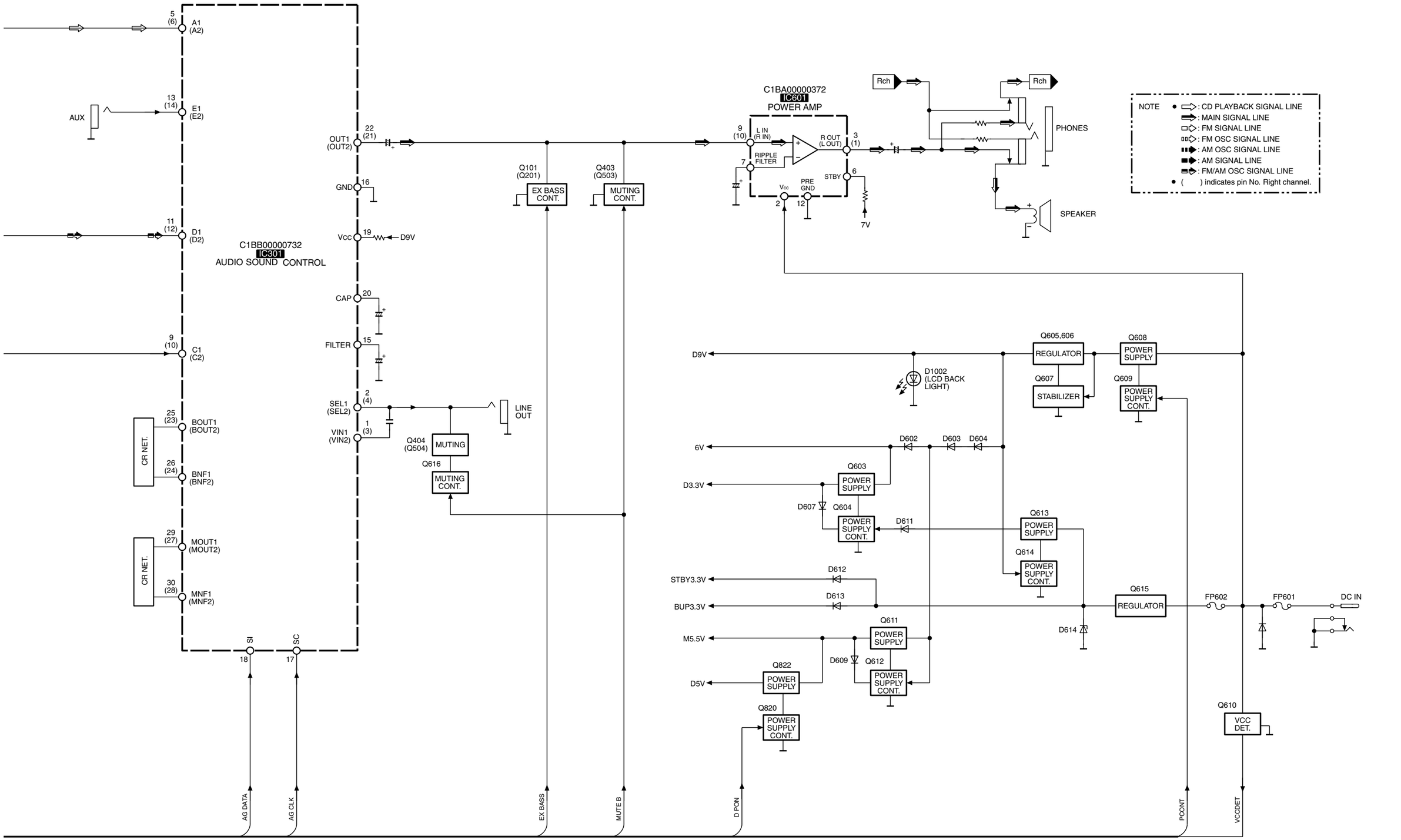
2	CD Close Switch (Bottom Sw) Error	H16	Detect error during closing operation and memorised it as an error.
3	CD Rest Switch Error	F15	Under normal operation (Self-Diagnostic Mode inclusive), this error occurs when the Rest_SW ON is not detected within the specified time (10 s) and shall be memrised.
4	Communication between CD LSI and Micro-P	F26	This error occurs when communication between CD LSI and Micro-P is abnormal.
5	Power Supply Error	F76	This error occurs when PDET (Input for detecting over/under voltage of power supply) voltage level is not in the range between 1.72V and 2.80V.

12 Block Diagram





SA-EN29(EB) BLOCK DIAGRAM



SA-EN29(EB) BLOCK DIAGRAM

SC-EN29EB

13 Schematic Diagram

13.1. Schematic Diagram Notes

(All schematic diagrams may be modified at any time with the development of new technology.)

Notes:

S301	CD_Eject Switch
S801	CD Switch
S802	Tuner Switch
S803	Dab Switch
S804	Vol + Switch
S805	Vol - Switch
S806	Tun- mode Switch
S807	FWD- Skip Switch
S808	REV- Skip Switch
S809	Stop Switch
S810	Power Switch
S1002	CD Top Switch
S1003	CD Bottom Switch

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

- **Importance safety notice:**

  Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

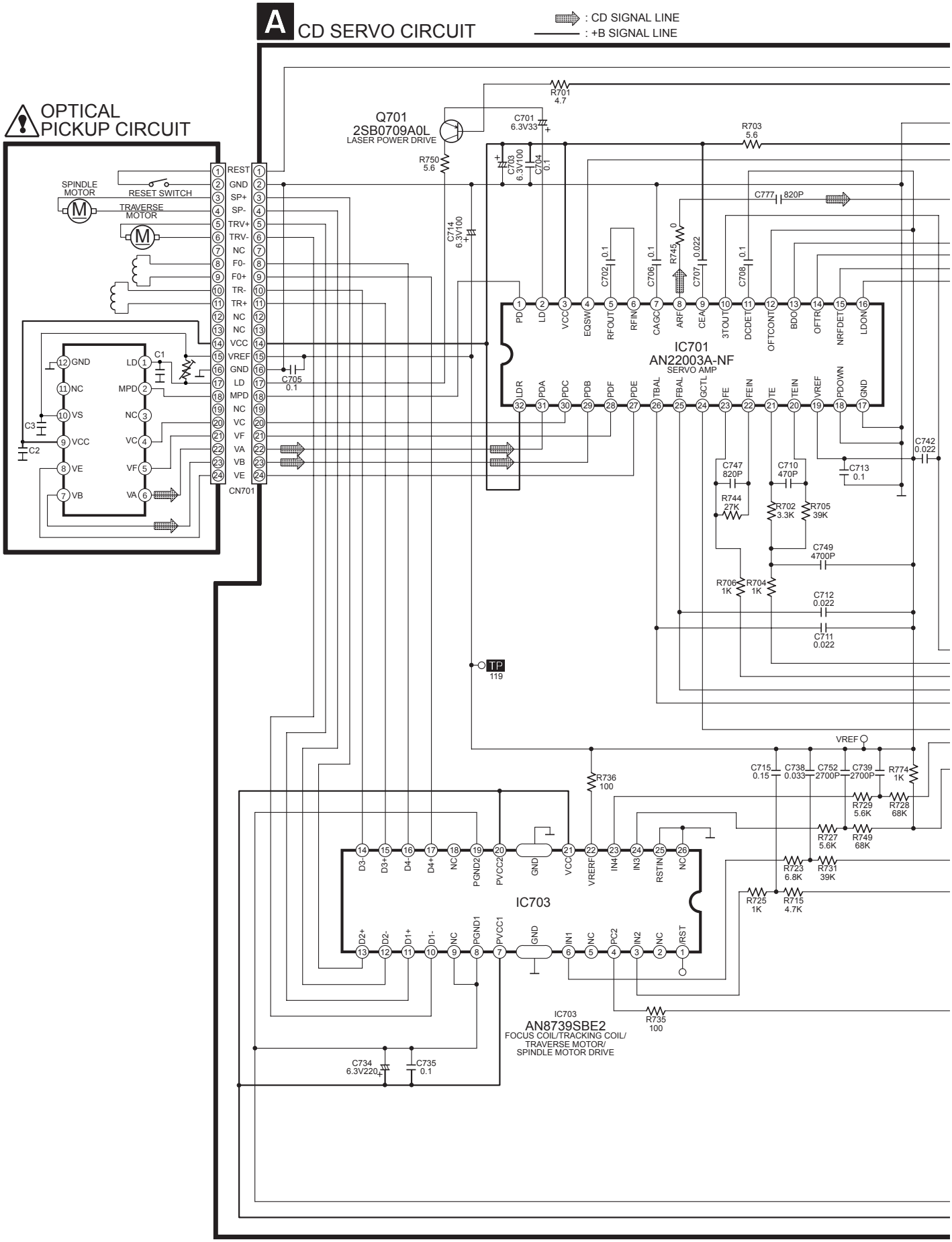
Caution!

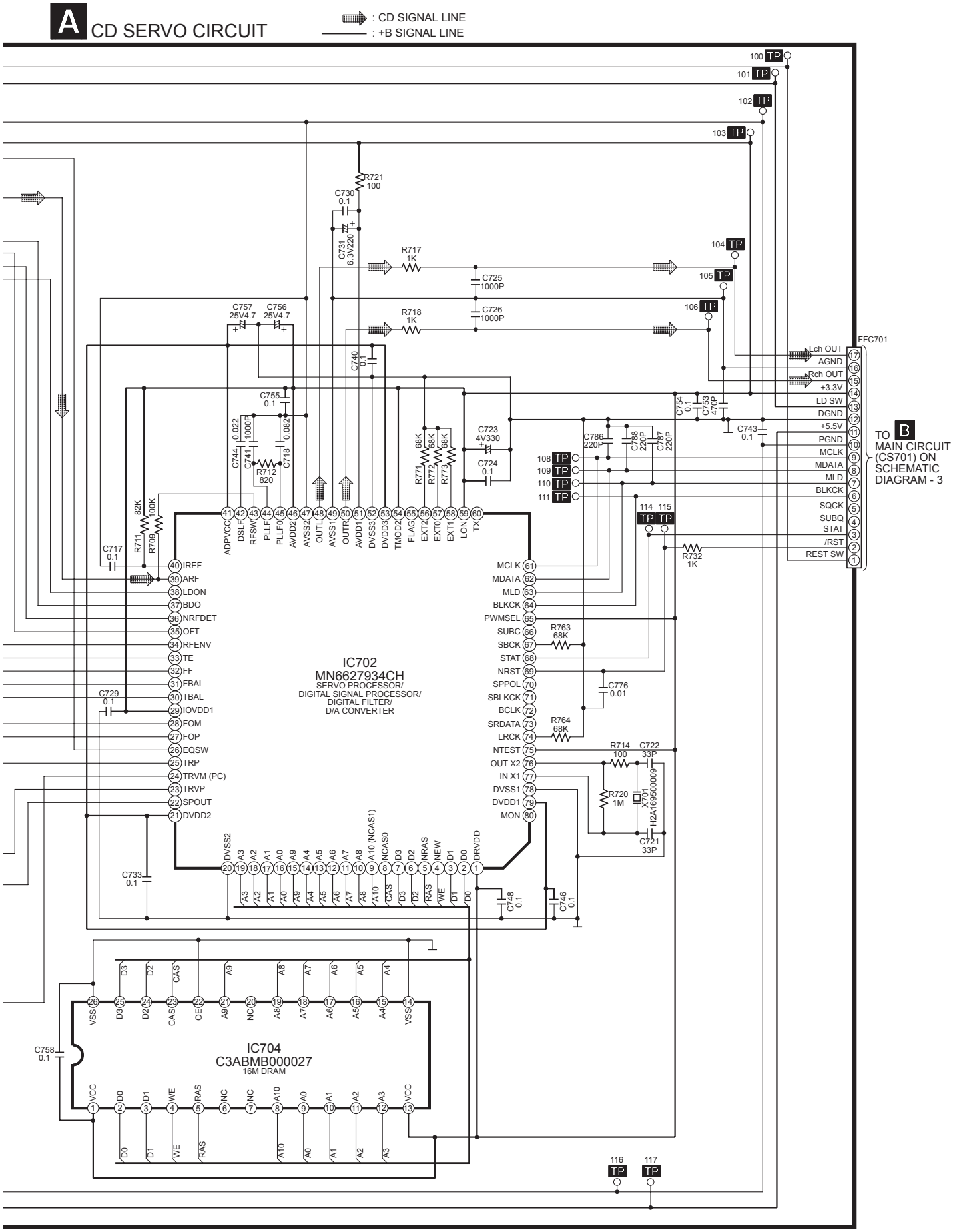
IC, LSI and VLSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

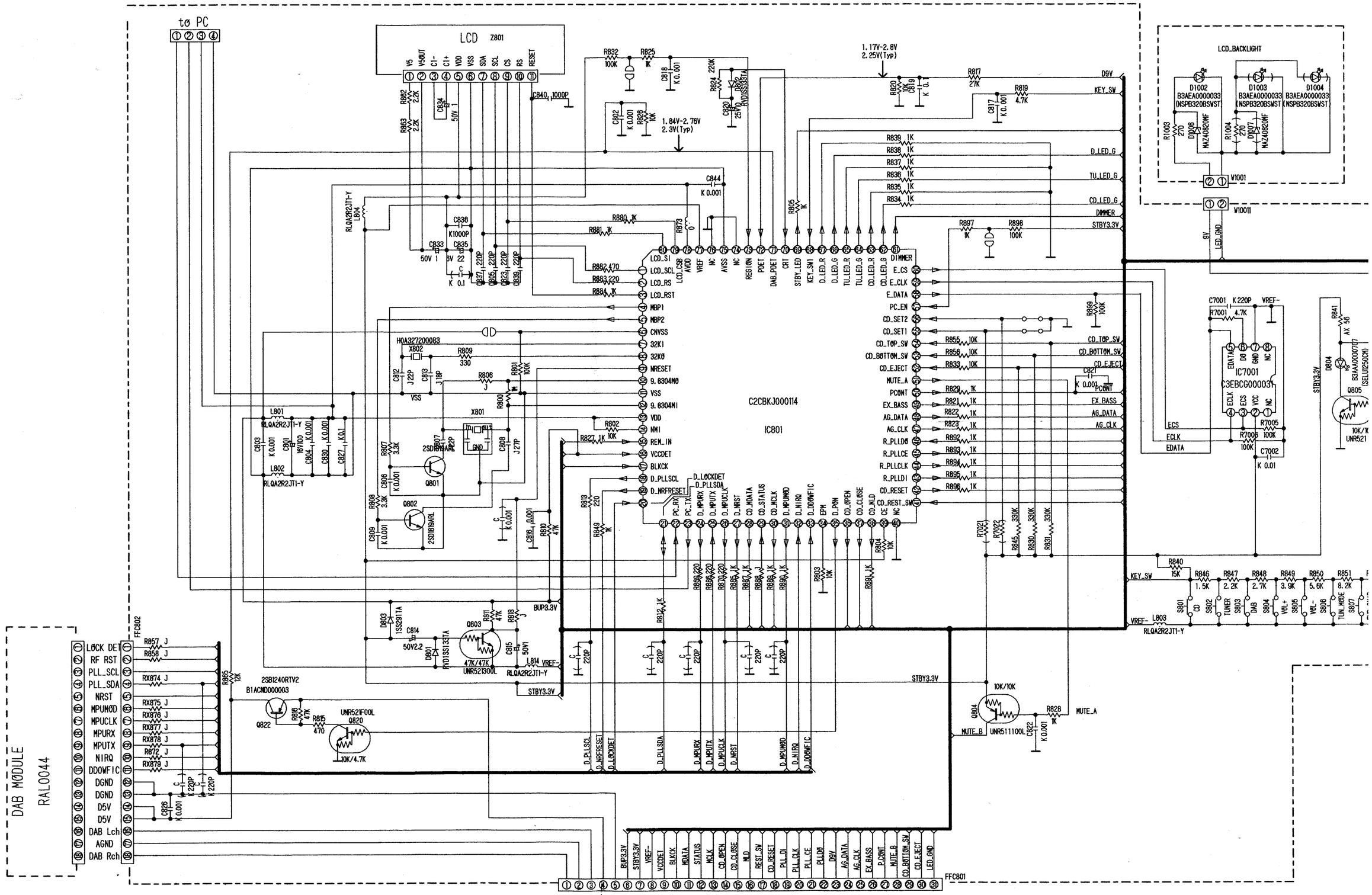
- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

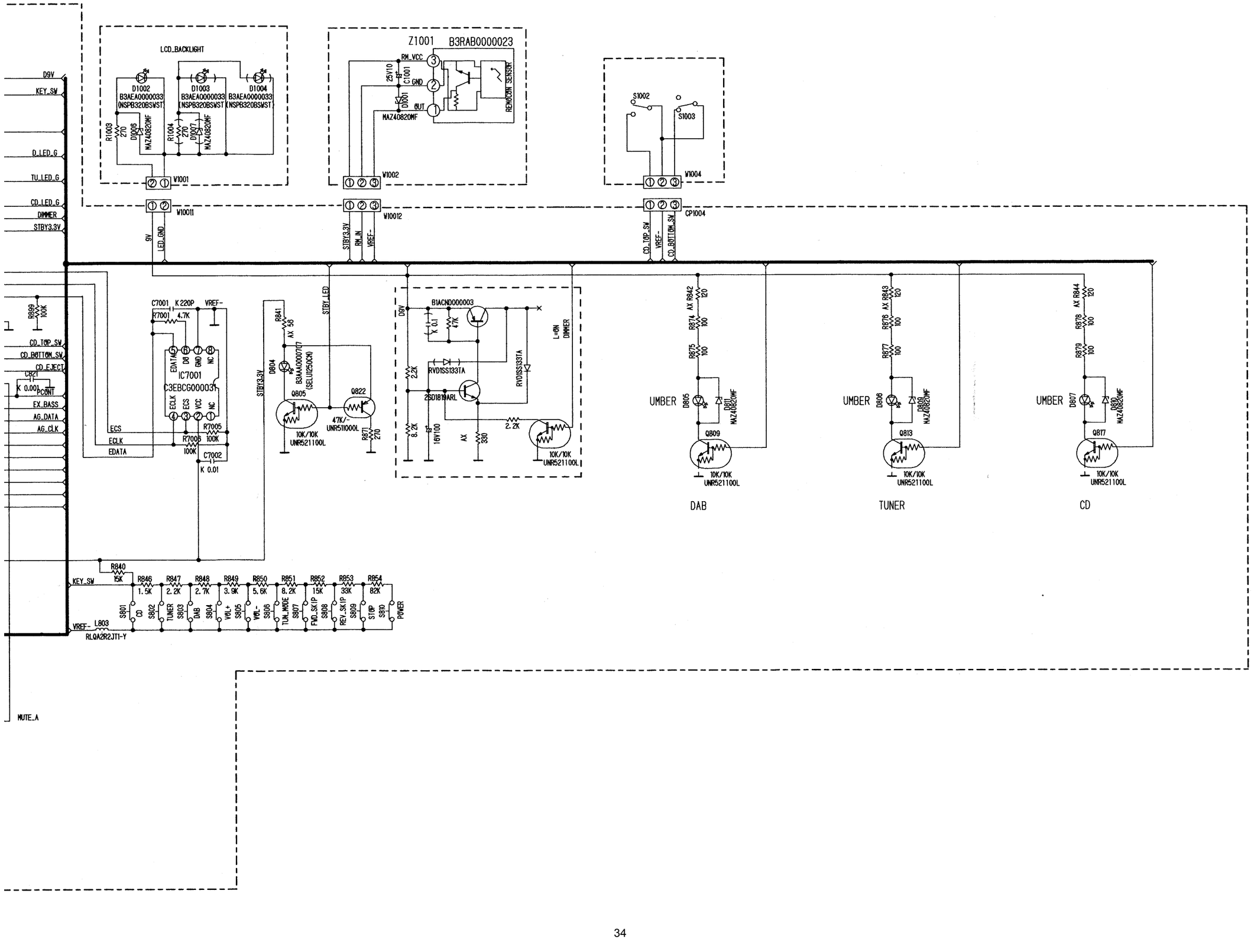
13.2. CD Servo Circuit Diagram

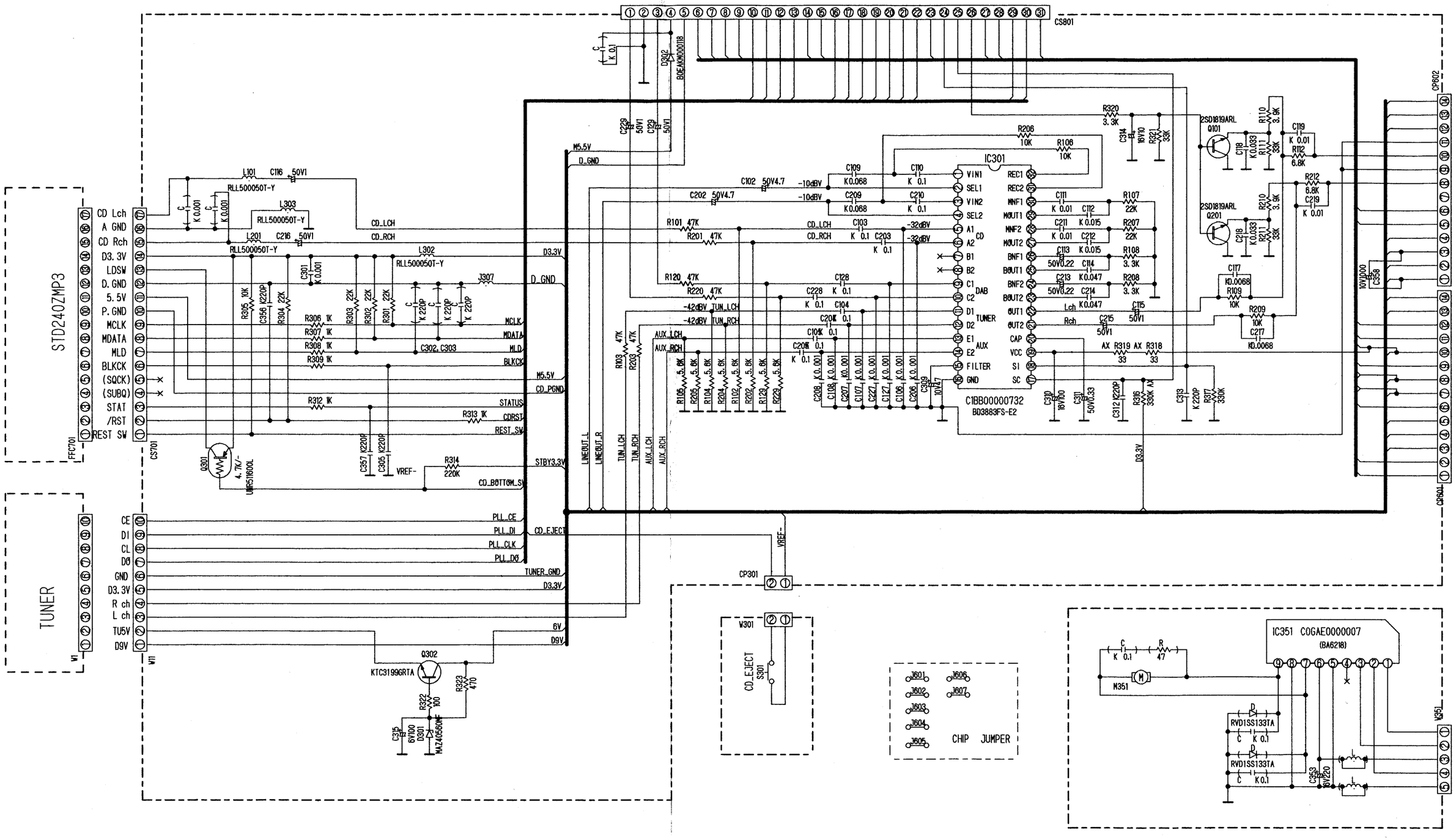


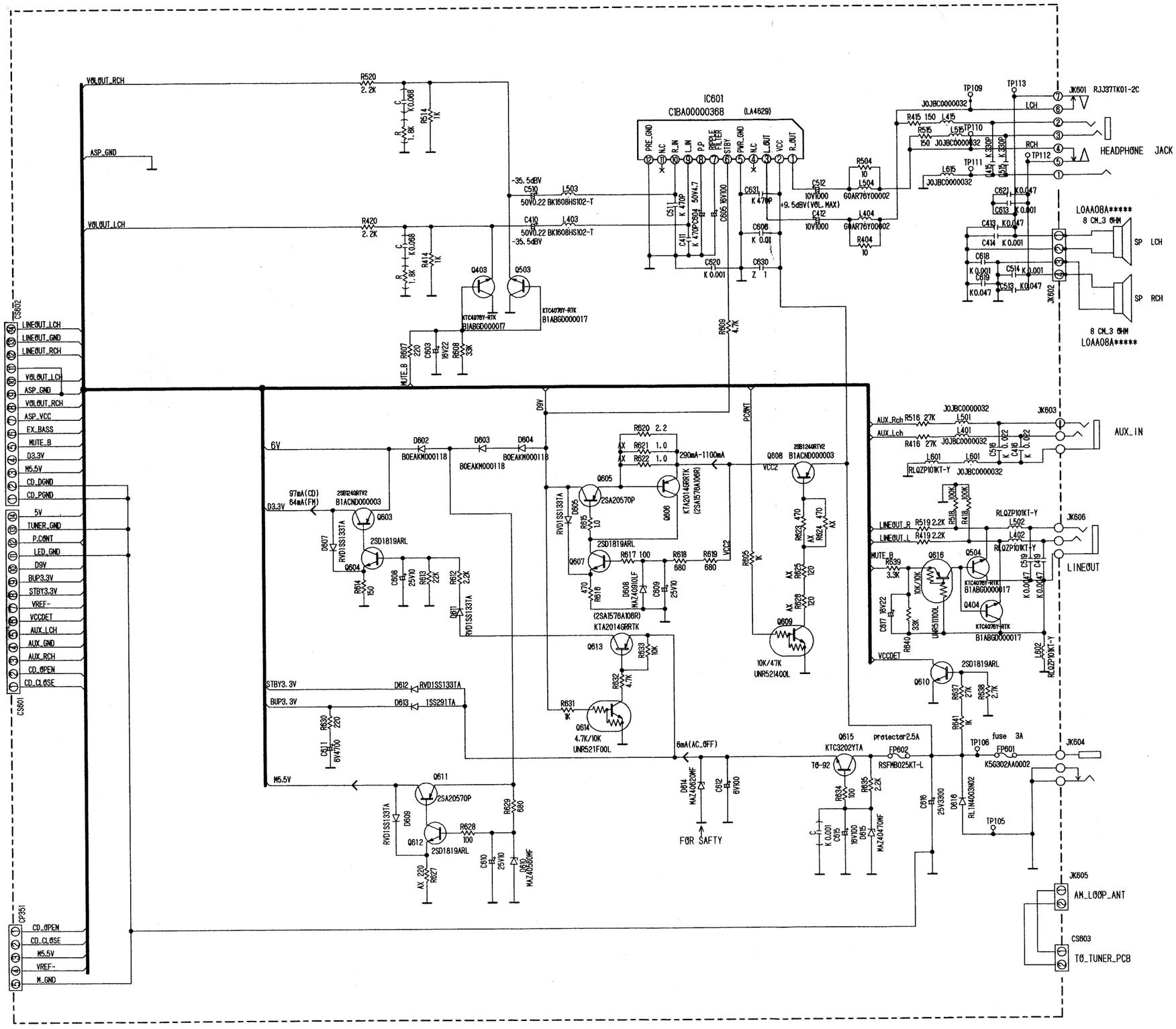

A CD SERVO CIRCUIT
: CD SIGNAL LINE
: +B SIGNAL LINE
IC702
MN6627934CH
SERVO PROCESSOR/
DIGITAL SIGNAL PROCESSOR/
DIGITAL FILTER/
D/A CONVERTER
IC704
C3ABMB000027
16M DRAM
FFC701
Lch OUT
AGND
Rch OUT
+3.3V
LD SW
DGND
+5.5V
PGND
MCLK
MDATA
MLD
BLKCK
SQCK
SUBQ
STAT
/RST
REST SW
TO B
MAIN CIRCUIT
(CS701) ON
SCHEMATIC
DIAGRAM - 3

13.3. Main etc. Circuite Diagram

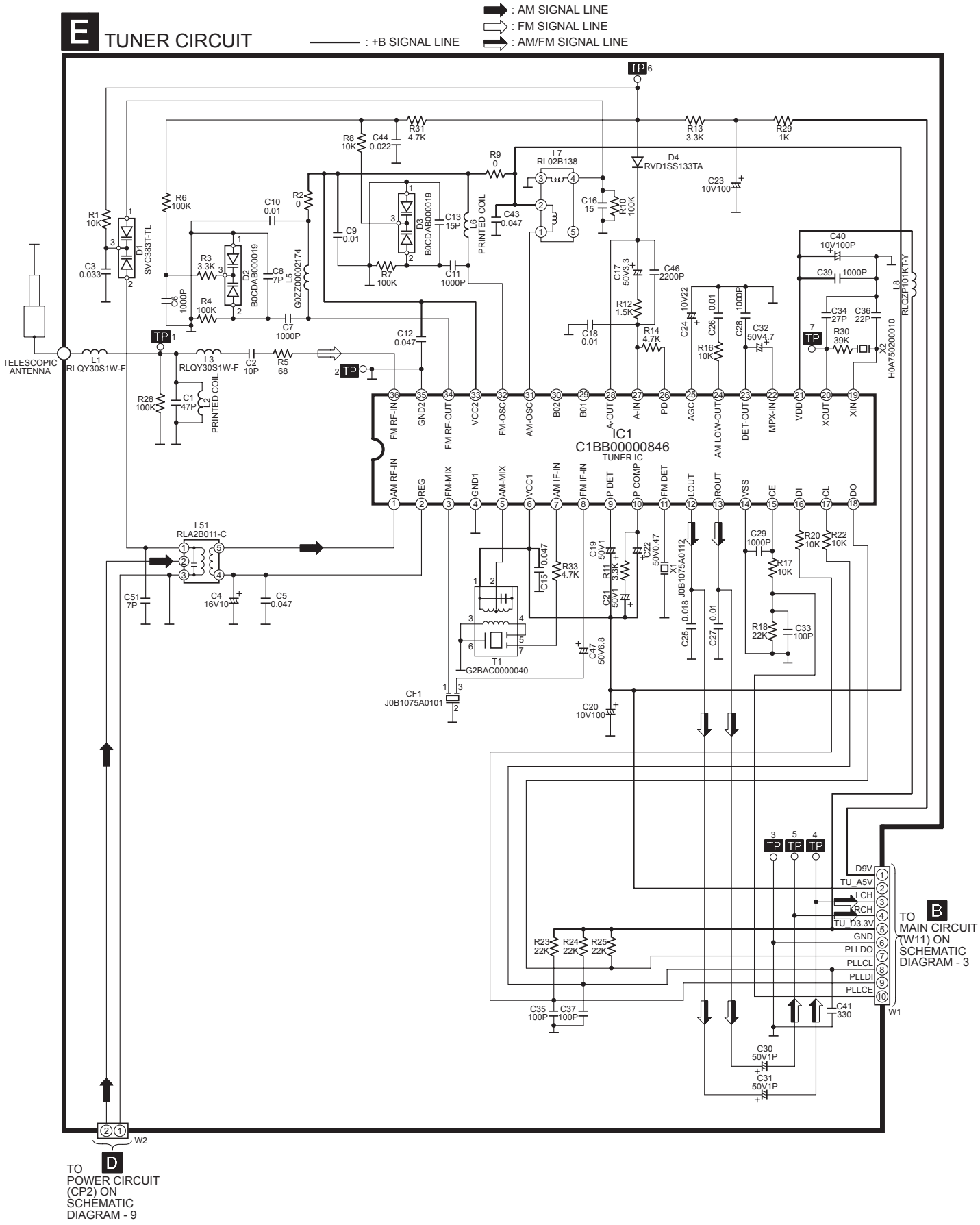



LCD_BACKLIGHT
D1002 B3AEA0000033 (NSPB320BSWST
D1003 B3AEA0000033 (NSPB320BSWST
D1004 B3AEA0000033 (NSPB320BSWST
R1003 270
R1004 270
D1006 MAZ40820MF
D1007 MAZ40820MF
W1001
Z1001 B3RAB0000023
RM_VCC
25V10
C1001
GND
D1001
OUT
MAZ40820MF
REMCOM SENSOR
W1002
S1002
S1003
W1004
W10011
W10012
CP1004
9V
LED_GND
STBY3.3V
RM_IN
VREF-
CD_TOP_SW
CD_BOTTOM_SW
D9V
KEY_SW
D_LED_G
TU_LED_G
CD_LED_G
DIMMER
STBY3.3V
R899 100K
CD_TOP_SW
CD_BOTTOM_SW
CD_EJECT
C821 K 0.001
PCONT
EX_BASS
AG_DATA
AG_CLK
ECS
ECLK
EDATA
C7001 K 220P
R7001 4.7K
VREF-
IC7001
C3EBCG000031
EDATA
DO
GND
NC
ECLK
ECS
VCC
NC
R7005 100K
R7006 100K
C7002 K 0.01
R841 AX 56
STBY_LED
D804 B3AAA0000017 (SELUR250CN)
Q805 10K/10K UNR521100L
Q822 47K/- UNR511000L
R871 270
B1ACND000003
K 0.1
47K
RVDSS133TA
2.2K
2SD1819ARL
8.2K
16V100
AX
330
2.2K
10K/10K UNR521100L
L=ON DIMMER
R842 AX 120
R874 100
R875 100
R843 AX 120
R876 100
R877 100
R844 AX 120
R878 100
R879 100
UMBER
D805
D811 MAZ40820MF
Q809 10K/10K UNR521100L
D806
D812 MAZ40820MF
Q813 10K/10K UNR521100L
D807
D813 MAZ40820MF
Q817 10K/10K UNR521100L
DAB
TUNER
CD
R840 15K
KEY_SW
R846 1.5K
R847 2.2K
R848 2.7K
R849 3.9K
R850 5.6K
R851 8.2K
R852 15K
R853 33K
R854 82K
S801 CD
S802 TUNER
S803 DAB
S804 VOL+
S805 VOL-
S806 TUN_MODE
S807 FWD_SKIP
S808 REV_SKIP
S809 STOP
S810 POWER
VREF-
L803 RLQA2R2JT1-Y
MUTE_A

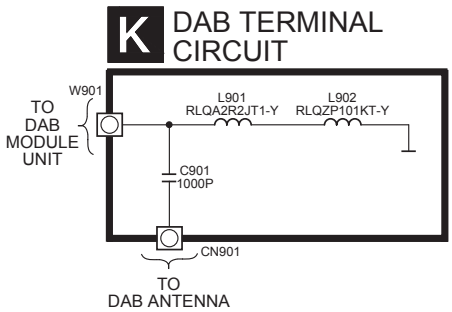

STD240ZMP3
CD Lch
A GND
CD Rch
D3.3V
LDSW
D.GND
5.5V
P.GND
MCLK
MDATA
MLD
BLKCK
(SQCK)
(SUBQ)
STAT
/RST
REST SW
FFC701
CS701
TUNER
CE
DI
CL
DØ
GND
D3.3V
R ch
L ch
TU5V
D9V
W1
CS801
BOEAKN00118
IC301
BD3883FS-E2
C1BB00000732
VIN1
SEL1
VIN2
SEL2
A1
A2
B1
B2
C1
C2
D1
D2
E1
E2
FILTER
GND
REC1
REC2
MNF1
MOUT1
MNF2
MOUT2
BNF1
BOUT1
BNF2
BOUT2
OUT1
OUT2
CAP
VCC
SI
SC
CD
DAB
TUNER
AUX
2SD1819ARL
Q101
Q201
Q301
UMR51I600L
Q302
KTC3199GRTA
MAZ4056GM
D301
CP602
CP601
CP301
W301
CD_EJECT
S301
J601
J602
J603
J604
J605
J606
J607
CHIP JUMPER
IC351 C0GAE0000007
(BA6218)
M351
W351
RVD1SS133TA
M5.5V
D_GND
D3.3V
6V
D9V
CD_LCH
CD_RCH
MCLK
MDATA
MLD
BLKCK
CD_PGND
STATUS
CDRST
REST_SW
STBY3.3V
CD_BOTTOM_SW
PLL_CE
PLL_DI
PLL_CLK
PLL_DØ
CD_EJECT
TUNER_GND
VREF-
LINEOUT_L
LINEOUT_R
TUN_LCH
TUN_RCH
AUX_LCH
AUX_RCH


IC601
C1BA00000368 (LA4629)
PRE_GND
N.C
R_IN
L_IN
P.P
RIPPLE FILTER
STBY
PWR_GND
N.C
L_OUT
VCC
R_OUT
V6LOUT_RCH
V6LOUT_LCH
ASP_GND
LINEOUT_LCH
LINEOUT_GND
LINEOUT_RCH
V6LOUT_LCH
ASP_GND
V6LOUT_RCH
ASP_VCC
EX_BASS
MUTE_B
D3.3V
M5.5V
CD_DGND
CD_PGND
5V
TUNER_GND
P.CONT
LED_GND
D9V
BUP3.3V
STBY3.3V
VREF-
VCCDET
AUX_LCH
AUX_GND
AUX_RCH
CD_OPEN
CD_CLOSE
CP351
CD_OPEN
CD_CLOSE
M5.5V
VREF-
M_GND
CS602
CS601
JK601 RJJ37TK01-2C
HEADPHONE JACK
LOAA08A*****
8 OHM 3 CH
SP LCH
SP RCH
JK603
AUX_IN
JK606
LINEOUT
JK604
JK605
AM_LOOP_ANT
CS603
TO_TUNER_PCB
JK602
JOJBC0000032
RLQZP101KT-Y
B1ACND000003
2SB1240RTY2
B1ABGD000017
KTC4076Y-RTK
B0EAKM000118
RVD1SS133TA
1SS291TA
2SA20570P
2SD1819ARL
KTA2014GRRTK
(2SA1578A106R)
UNR521400L
UNR511100L
MAZ40910LF
MAZ40820MF
MAZ40470MF
KTC3202YTA
RSFMB025KT-L
K5G302AA0002
RL1N4003NN2
FOR SAFTY
protector2.5A
fuse 3A
TP105
TP106
TP109
TP110
TP111
TP112
TP113
LCH
RCH
VCCDET
MUTE_B
AUX_Rch
AUX_Lch
LINEOUT_R
LINEOUT_L
-35.5dBV
+9.5dBV(V6L MAX)
97mA(CD)
64mA(FM)
290mA-1100mA
6mA(AC_OFF)

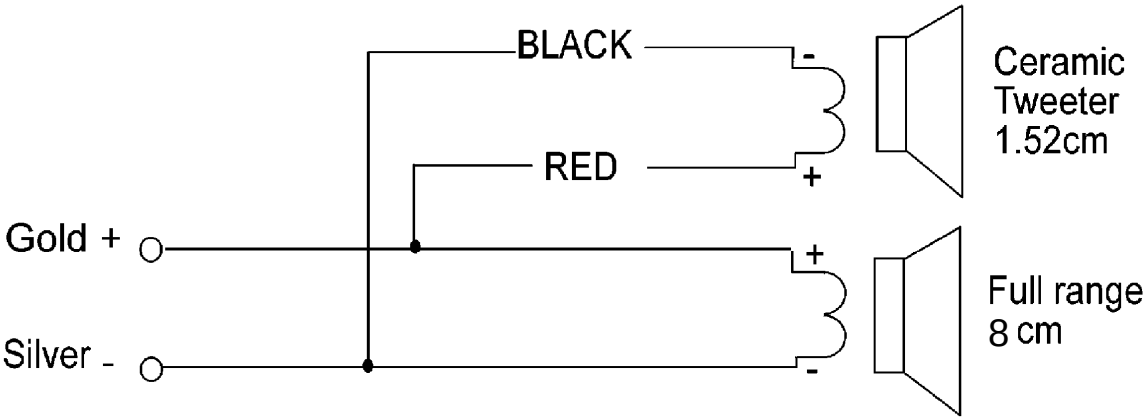
13.4. Tuner Circuit Diagram



13.5. Dab Terminal Circuit Diagram



13.6. Schematic Diagram (SB-EN7)



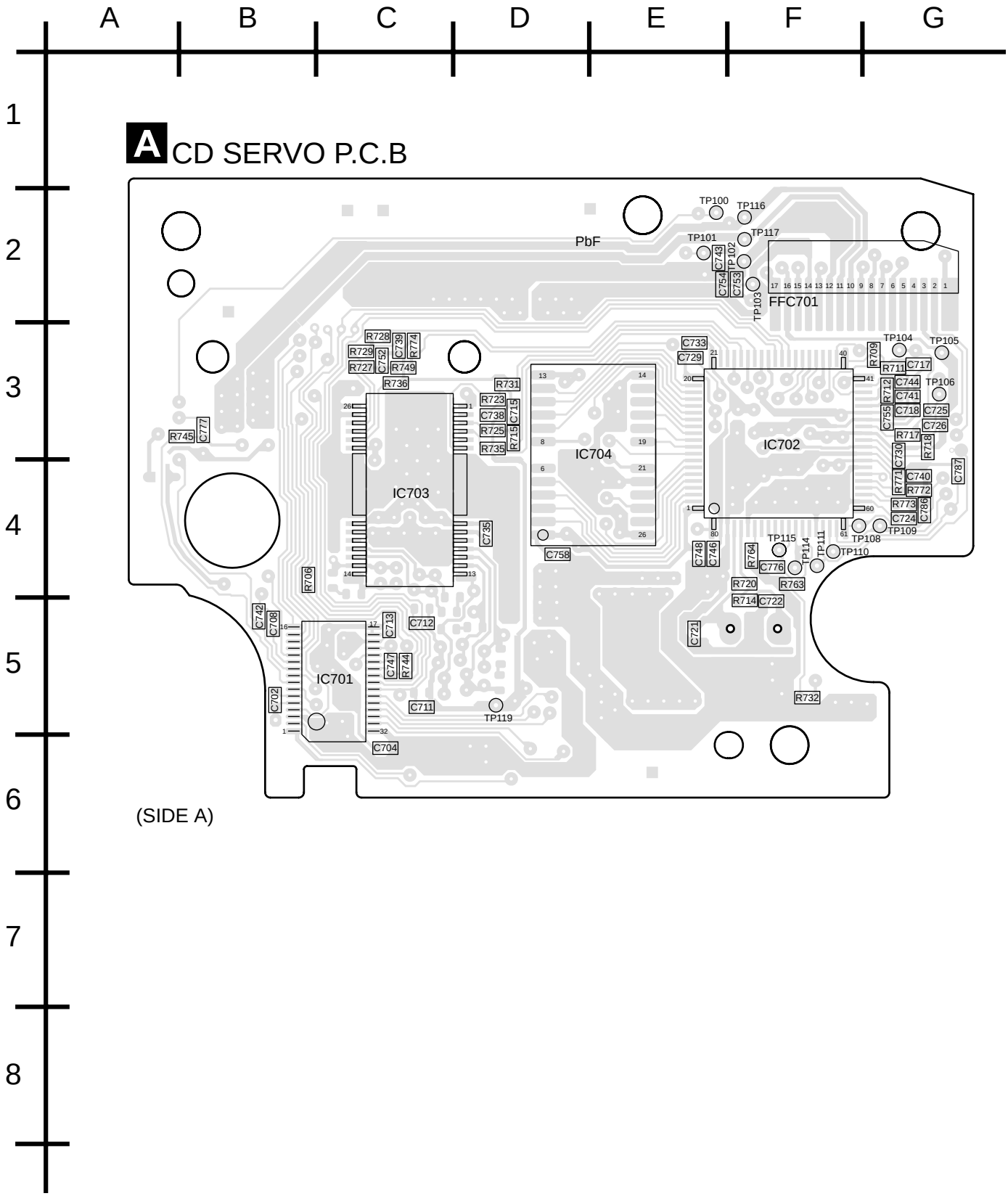
13.7. Voltage Varue

Ref.No.	IC1																			
Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
AM	2.2	2.2	2.5	0	5	5	2.2	2.2	4	3.7	3.4	2.2	2.2	0	0	3.4	3.4	3.4	1.2	1.6
FM	2.2	2.2	2.5	0	5	5	2.2	2.2	4	3.9	2.8	2.2	2.2	0	0	3.4	3.4	3.4	1	1.6
Ref.No.	IC1																			
Mode	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
AM	3.5	2.2	0.8	1.8	0.8	2.1	2.1	0.7	0	0	5	5	5	5	0	0				
FM	3.5	2.2	2.1	0	0.6	2.1	2.1	1.8	0	0	5	5	5	5	0	1				
Ref.No.	IC301																			
Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD STOP	4	4.4	4	4.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.2	4.2	4.2	0	0	0	8.5	3.4
CD PLAY	4	4.4	4	4.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.2	4.2	4.2	0	0	0	8.5	3.4
Ref.No.	IC301																			
Mode	21	22	23	24	25	26	27	28	29	30	31	32								
CD STOP	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2								
CD PLAY	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2								
Ref.No.	IC351																			
Mode	1	2	3	4	5	6	7	8	9											
CD STOP	0	0	0	0	0	5.8	0	0	0											
CD PLAY	0	0	0	0	0	5.8	0	0	0											
Ref.No.	IC601																			
Mode	1	2	3	4	5	6	7	8	9	10	11	12								
CD STOP	6	12.8	6.2	0	0	2	6.2	9.1	1.4	1.3	0	0								
CD PLAY	6	12.8	6.2	0	0	2	6.3	9.1	1.4	1.3	0	0								
Ref.No.	IC701																			
Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD STOP	3.2	2.7	3.3	0	0.8	2	0.6	1.6	1.7	1.5	1.5	1.5	0	3.2	3.1	0	0	0	1.7	1.7
CD PLAY	3.2	2.2	3.3	0	1.5	2	1.4	1.6	1.7	1.5	1.5	1.5	0	0	0	3.2	0	0	1.7	1.7
Ref.No.	IC701																			
Mode	21	22	23	24	25	26	27	28	29	30	31	32								
CD STOP	1.5	1.5	1.5	0	1.7	1.5	1.7	1.7	1.7	1.7	1.7	3.3								
CD PLAY	1.5	1.5	1.5	0	1.9	1.7	2.3	2.3	1.9	2	2	3.3								
Ref.No.	IC702																			
Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD STOP	3.4	0	0	0	3.4	0	0	3.4	0	0	0	0	0	0	0	0	0	0	0	0
CD PLAY	3.4	0	0	0	3.4	0	0	3.4	0	0	0	0	0	0	0	0	0	0	0	0
Ref.No.	IC702																			
Mode	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD STOP	1.1	1.1	1.3	3.2	0.1	0	0	0	3.4	1.5	1.5	1.5	1.5	1.5	3	3	0	0	1.5	0.8
CD PLAY	1.4	1.7	1.3	3.2	1.7	0	0	0	3.4	1.7	1.7	1.7	1.7	1.7	0	0	0	3.4	1.7	0.8
Ref.No.	IC702																			
Mode	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD STOP	1.5	1.6	1.6	1	1	3.4	0	1.5	0	1.4	3	0	1.4	3.2	3.2	0	0	0	3.2	0
CD PLAY	1.5	1.6	1.6	1.5	1.5	3.4	0	1.5	0	1.6	3	0	1.4	3.2	0	0	0	0	3.2	0
Ref.No.	IC702																			
Mode	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD STOP	3.2	0.2	3	0	3.2	0	0	0	3.2	0	0	0	0	3.1	3.4	1.4	1.4	0	1.5	3.3
CD PLAY	3	0.5	3.2	0.1	3.2	0	0	0	3.2	0	0	0	3.4	0.3	3.4	1.4	1.4	0	1.5	0
Ref.No.	IC703																			
Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD STOP	0	0	1.7	0	0	1.2	5.7	0	0	0	0	0	0	0	0	0	0	0	0	5.7
CD PLAY	0	0	1.7	0	0	1.7	5.7	0	0	0.3	0.3	0.4	0.1	0.1	0.1	0.4	0.1	0	0	5.7
Ref.No.	IC703																			
Mode	21	22	23	24	25	26														
CD STOP	5.7	1.7	1.7	1.7	0	0														
CD PLAY	5.7	1.7	1.7	1.7	0	0														

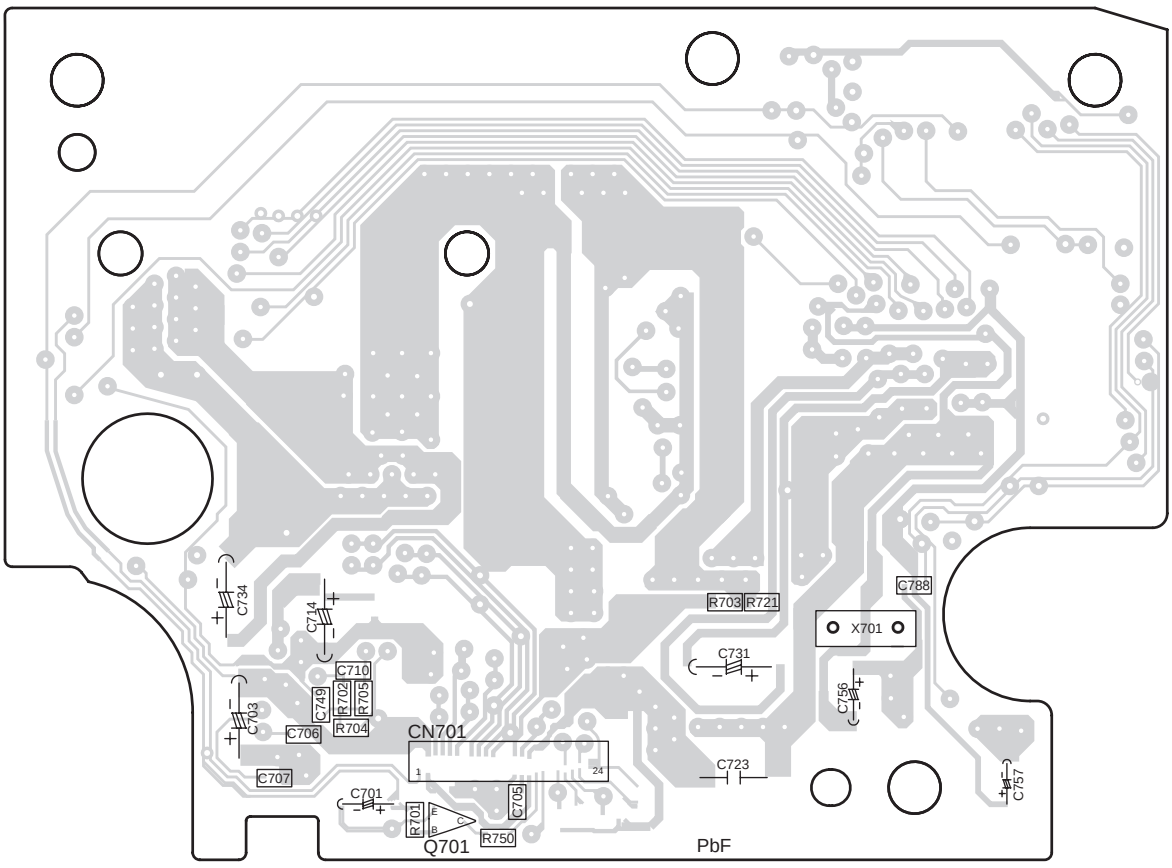
Ref.No.	IC704																			
Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD STOP	3.4	0	0	0	3.4	0	–	0	0	0	0	0	3.4	0	0	0	0	0	0	–
CD PLAY	3.4	0	0	0	3.4	0	–	0	0	3.4	0	0	3.4	0	0	0	0	0	0	–
Ref.No.	IC704																			
Mode	21	22	23	24	25	26														
CD STOP	0	0	3.4	0	0	0														
CD PLAY	0	0	3.4	0	0	0														
Ref.No.	IC7001																			
Mode	1	2	3	4	5	6	7	8												
CD STOP	0	3.3	0	0	0	0	0	0												
CD PLAY	0	3.3	0	0	0	0	0	0												
Ref.No.	IC801																			
Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD STOP	3.1	1.3	3.2	0	3.1	0	0.2	1	3.1	1.7	0	1.7	3.2	3.2	3.1	0	0	0	0	0
CD PLAY	3.1	1.3	3.2	0	3.1	0	0.2	1	3.1	1.7	0	1.5	3.2	3.2	3.1	0	0.1	0	0	0
Ref.No.	IC801																			
Mode	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD STOP	0	0	0	0	0	0	0	0	0	3.2	0	0	0	0	0	0	0	3.2	3.3	0
CD PLAY	0	0	0	0	0	0	0	0	0	3.2	0	0	0	0	0	0	0	3.2	3.3	0
Ref.No.	IC801																			
Mode	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD STOP	3.4	3.2	3.2	3.2	0	3.3	0	0	0	3.2	0	2.4	0	2.4	0	0	3	0	0	0
CD PLAY	3.4	3.2	3.2	3.2	0	3.3	0	0	0	3.2	3.2	2.4	0	2.4	0	0	3	0	0	0
Ref.No.	IC801																			
Mode	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD STOP	0	3.2	0	0	3	0	3	3.2	0	3.2	0	2.4	3	0	0	0	3.3	3.2	2.7	0.1
CD PLAY	0	3.2	0	0	3	0	3	3.2	0	3.2	0	2.4	3	0	0	0	3.3	3.2	2.7	0.1
Ref.No.	Q101				Q201				Q301				Q302				Q403			
Mode	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD STOP	0	0	0		0	0	0		3.4	3.4	0		4.8	6.7	5.5		0	0	0	
CD PLAY	0	0	0		0	0	0		3.4	3.1	0		4.8	6.7	5.5		0	0	0.7	
Ref.No.	Q404				Q503				Q504				Q603				Q604			
Mode	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD STOP	0	0	0.7		0	0	0.7		0	0	0.7		6.8	3.4	6.2		2.7	6.2	3.2	
CD PLAY	0	0	0		0	0	0		0	0	0		6.8	3.4	6.2		2.7	6.2	3.2	
Ref.No.	Q605				Q606				Q607				Q608				Q609			
Mode	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD STOP	12.7	9	12.1		12.8	12.1	12.7		8.3	12.1	8.6		13	12.8	12.4		0	0.2	2.7	
CD PLAY	12.7	9	12.1		12.8	12.1	12.7		8.3	12.1	8.6		12.8	12.8	12		0	0.2	2.7	
Ref.No.	Q610				Q611				Q612				Q613				Q614			
Mode	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD STOP	0	0	0.6		7	5.8	7.5		5	6.7	5.5		4	4	3.4		0	0	7.5	
CD PLAY	0	0	0.6		6.8	5.7	7.5		5	6.7	5.5		4	4	3.4		0	0	7.5	
Ref.No.	Q615				Q616				Q701				Q801				Q802			
Mode	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD STOP	3.9	12.8	4.6		1.2	0.7	0		3.4	1.2	2.8		0	0	0		0	0	0.7	
CD PLAY	3.9	12.8	4.6		0	0	0		2.8	2.1	2.1		0	0	0		0	0	0	
Ref.No.	Q803				Q804				Q805				Q809				Q813			
Mode	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD STOP	0	2.9	0		3.3	3.2	0.3		0	1.3	0.2		0	7.3	0		0	7.3	0	
CD PLAY	0	2.9	0		3.3	0	0.3		0	1.3	0.2		0	7.3	0		0	7.3	0	
Ref.No.	Q817				Q820				Q821				Q822							
Mode	E	C	B		E	C	B		E	C	B		E	C	B					
CD STOP	0	0.2	2.9		0	5.1	0		2.8	2.6	0.2		5.4	0	5.1					
CD PLAY	0	0.2	2.9		0	5.1	0		2.8	2.6	0.2		5.4	0	5.1					

14 Printed Circuit Board Diagram

14.1. CD SERVO P.C.B.



A CD SERVO P.C.B

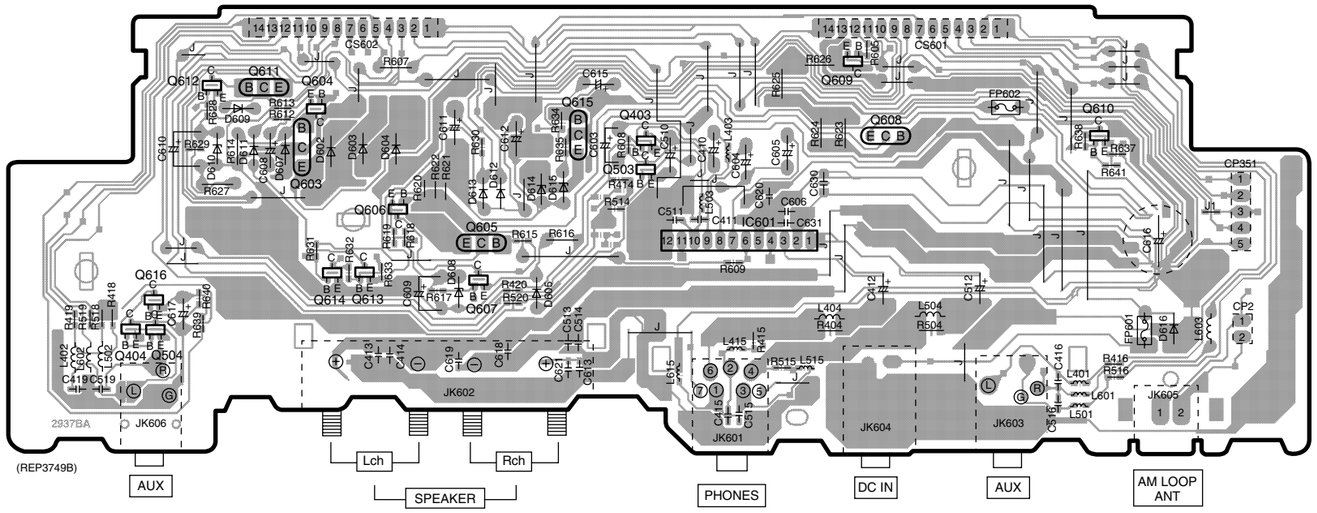


(SIDE B)

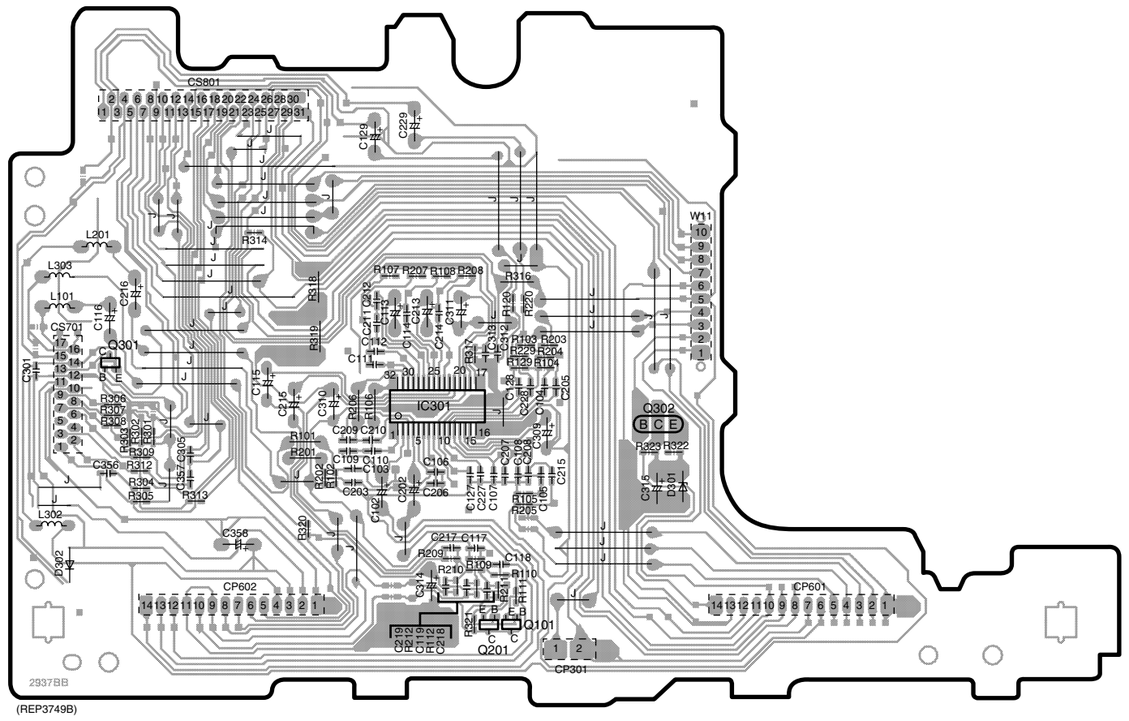
14.2. Printed Circuit Board Diagram

Note: This printed circuit board diagram may be modified at any time with the development of new technology.

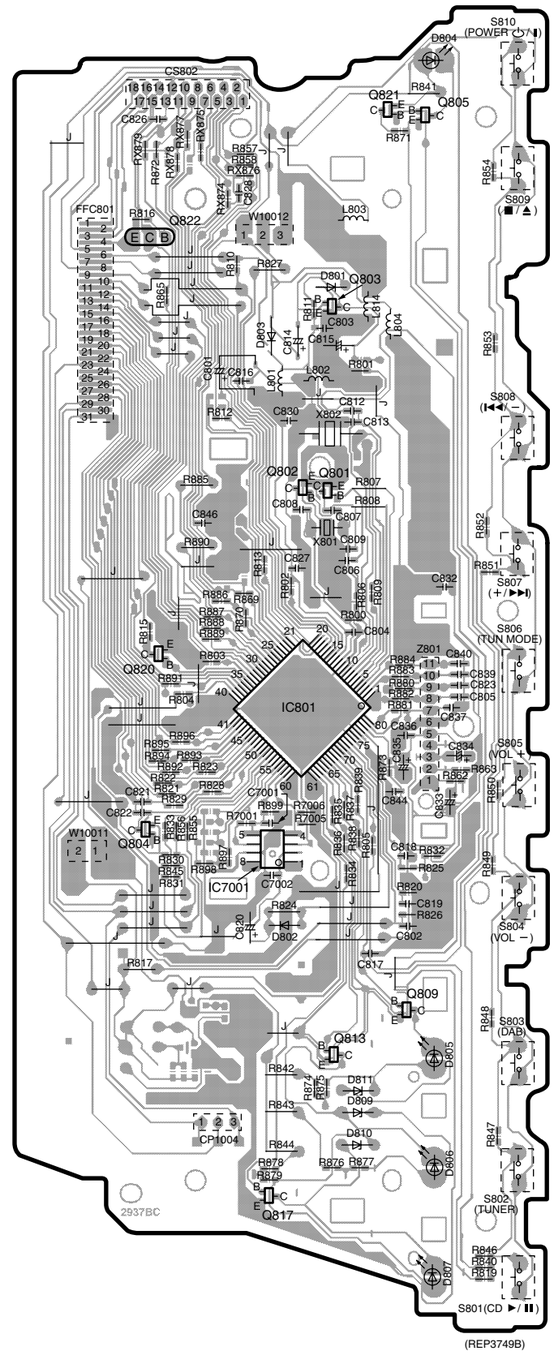
D POWER P.C.B.



B MAIN P.C.B.

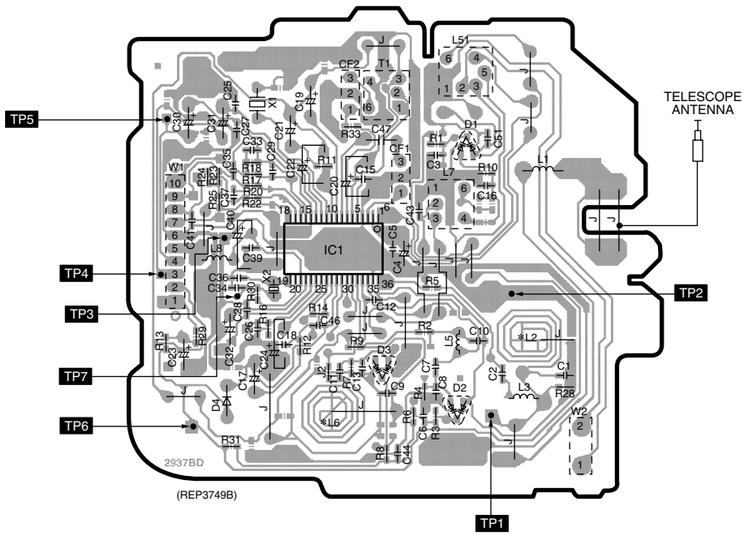


C PANEL P.C.B.



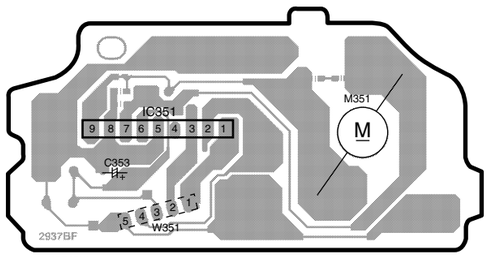
SA-EN29(EB) MAIN,PANEL,POWER P.C.B.

E TUNER P.C.B.



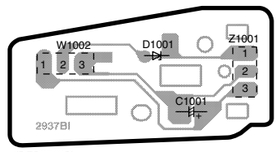
(REP3749B)

G LOADING MOTOR P.C.B.



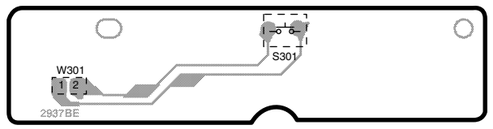
(REP3749B)

J SENSOR P.C.B.



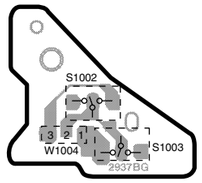
(REP3749B)

F CD EJECT P.C.B.



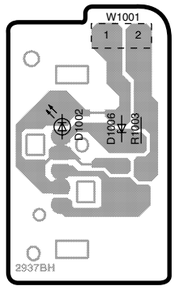
(REP3749B)

H SWITCH P.C.B.



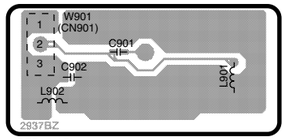
(REP3749B)

I LED P.C.B.



(REP3749B)

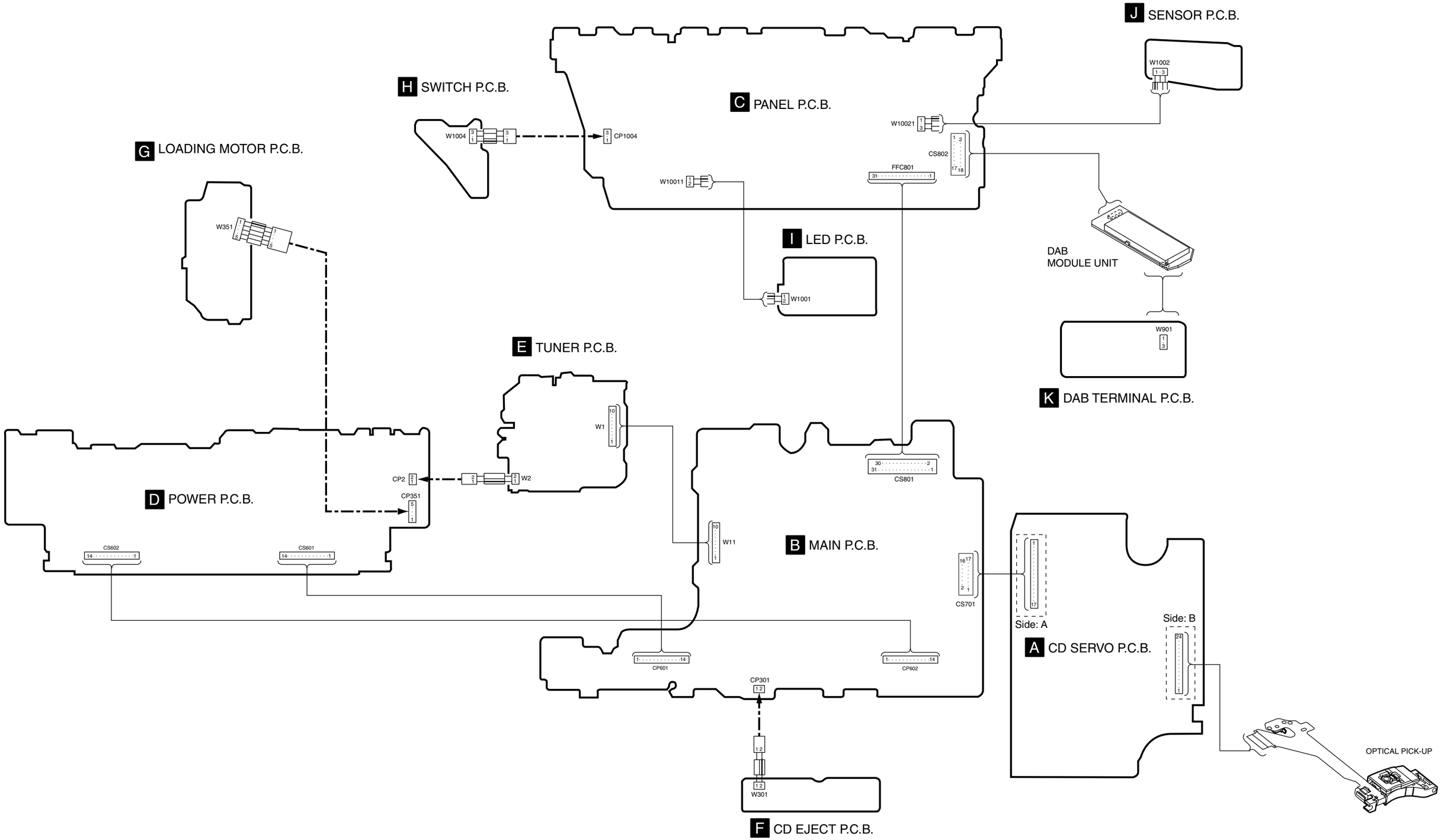
K DAB TERMINAL P.C.B.



(REP3749B)

SA-EN29(EB) TUNER,CD EJECT,LOADING MOTOR,SWITCH,LED,SENSOR,DAB TERMINAL P.C.B.

15 Wiring Connection Diagram



SC-EN29EB

16 Measurements and Adjustments

16.1. Tuner Adjustment

16.1.1. Required tools and equipment

- Signal generator
- AM loop antenna
- Oscilloscope or electrical voltage meter
- Headphone jig

16.1.2. Preparations for Adjustment

- Apply under [9. Assembling and Disassembling].
- Connect to the power supply (AC230-240V).
- Maximize the volume.

16.1.3. AM RF Adjustment

1. Input AM signal generator output from the AM loop antenna.
2. Connect a measuring instrument to the headphone jack.
3. Tune to the signal (SG 603kHz).
4. Adjust L51 so that the output reaches maximum. (Fig. 1)

16.1.4. AM IF Adjustment

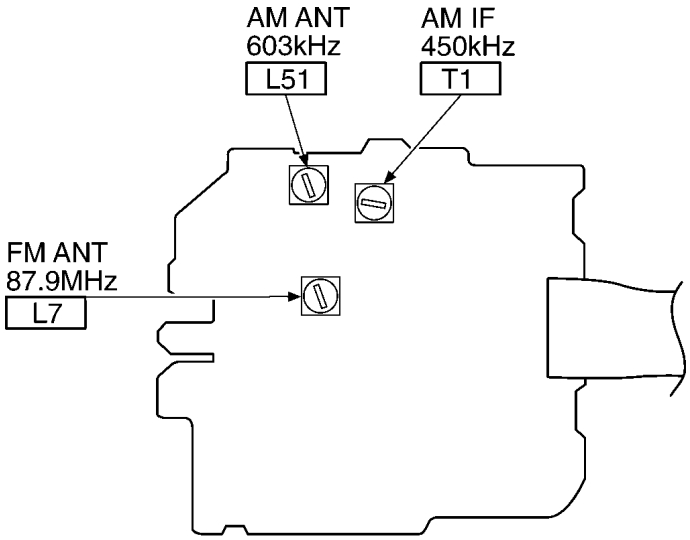
1. Follow the steps 1 and 2 of AM RF Adjustment.
2. Tune to the signal (SG 450kHz).
3. Revolve the T1 core and adjust that the output waveforms reaches maximum. (Fig. 2)

16.1.5. AM VCO Adjustment

1. Input AM single generator output from the AM loop antenna.
2. Set the electrical voltage meter to TP1 - TP3.
3. Tune to the signal (SG 520kHz).
4. Adjust L51 so that the output reaches DC 1.4±0.3V.

16.1.6. FM RF Adjustment

1. Set the frequency of FM signal generator to 87.9MHz.
2. Input to TP1(RF I/P) - TP2(RF O/P) through FM dummy antenna.
3. Adjust L7 so that the output reaches maximum. (Fig. 1)
4. Take measurement at point 1, point 2 and point 3 (GND). Range from 2.15 ± 0.5 V


AM ANT
603kHz
L51
AM IF
450kHz
T1
FM ANT
87.9MHz
L7
Tuner P.C.B.

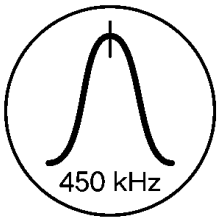

450 kHz

Fig 2

17 Terminal Functions of ICs

・IC801 (C2CBKJ000169) Microprocessor

Pin No.	Mark	I/O	Function
1	LCD_SCL	O	LCD Serial Lcok
2	LCD_RS	O	LCD Register Select (Instruction/Data)
3	LCD_RST	O	LCD Reset
4	MBP1	O	PC Beat Proof MBP 1,2: (H,H)=f L, (L,H)=fm, (LL)= f H
5	MBP2	O	(same as above)
6	CNVSS	I	Flash Writing Mode Switch L: Normal H: Writing Mode
7	32KI	-	Sub Clock Input
8	32KO	-	Sub Clock Output
9	NRESET	I	Reset Terminal
10	9.8304MO	-	PC Main Clock Input
11	Vss	-	PC Power VSS
12	9.8304MI	-	PC Main Clock Output
13	VDD	-	PC Power VDD
14	NMI	I	(Nonmaskable Interruption Inhibit: P/U to VCC by R10k)
15	REM_IN	I	Remote Control IN (Interruption processing is not used)
16	VCCDET	I	DCIN Detection (Interrruption processing is used) L- power on; H- power off
17	BLKCK	I	CD Sub Code Data Interrupt Input (Interrupt processing is used)
18	D_PLL_SCL	O	DAB PLL 2C Clock Output
19	D_NRFRESET	O	DAB RF Section Reset Output
20	D_LOCKDET	I	DAB PLL Lock Detection Input L - Lock
21	D_PLL_SDA	O	DAB PLL 12C Data Input
22	PC_RX	O(*)	PC Communication UART Reception (for checking) *Switch to I only when PC Communication (when PC-EN is enabled) is in use
23	PC_TX	O	PC Communication UART Transmission (for checking) *Use O (L/H) when PC Communication
24	D_MPURX	O	DAB LSI Serial Data Transmission
25	D_MPUTX	I	DAB LSI Serial Data Reception
26	D_MPUCLK	O	DAB LSI Serial Clock Output
27	D_NRST	O	DAB LSI Reset Output
28	CD_MDATA	O	CD Serial Output
29	CD_STATUS	I	CD Serial Input
30	CD_MCLK	O	CD Serial Clock
31	D_MPUMOD	O	DAB LSI Address/ Data Control Output H- Address
32	D_NIRQ	I	DAB LSI Interrupt Request (Interrupt Handler is Not in Use)
33	D_DDOWFIC	I	DAB 24ms Synchronous Interruption H- FIC ON (LSI Access Inhibit)
34	EPM	I	Connect to VSS Flash Writing Mode Setting
35	D_PON	O	DAB Module Power Supply Control Output
36	CD_OPEN	O	CD Cover Open Control
37	CD_CLOSE	O	CD Cover Close Control
38	CD_MLD	O	CD Load Signal Output L- Output
39	CE	I	Pull up to VDD by 10k Flash Writing Mode Setting
40	(NC)	I	Normally GND Connection - 1 Fixed DAB Module Jig Mode at H
41	CD_REST_SW	I	CD Traverse Limit Detection
42	CD_RESET	O	CD Module Reset Output L-Reset
43	R_PLL_DI	O	FM/AM PLL Data Output Unless the power supply is on, H output is used for other functions
44	R_PLL_CLK	O	FM/AM Clock Output
45	R_PLL_CE	O	FM/AM Address Select L- Address, H- Data
46	R_PLL_D0	I	FM/AM PLL Data Input
47	AG_CLK	O	ASP Clock
48	AG_DATA	O	ASP Data
49	EX_BASS	O	Ex. BASS Control L- Active
50	PCONT	O	Main Power Supply Control H- On
51	MUTE_A	O	Analog Mute L-Active (*) When power is off, strictly observe H output
52	CD_EJECT	I	CD Inject Button Input L- Input On
53	CD_BOTTOM_SW	I	CD Cover Bottom Corner Detection Input P/U L- Input On
54	CD_TOP_SW	I	CD Cover Top Corner Detection Input P/U L- Input On
55	CD_SET1	O	Undetermined For CD Control
56	CD_SET2	I	(Flash Slow Speed Writing H:19200bps)
57	PC_EN	I	PC Connection enable; Detection Input L...Active: However, detection is only during DAB
58	E_DATA	I/O	E2PRON (Spare)
59	E_CLK	O	E2PRON (Spare)
60	E_CS	O	E2PRON (Spare)
61	DIMMER	O	LCD Back Light Dimmer Control L- Active
62	CD_LED_G	O	CD Function Middle Display H- Active
63	CD_LED_R	O	CD Function Not in Use Display H- Active
64	TUNER_LED_G	O	FM/AM Function Middle Display H- Active
65	TUNER_LED_R	O	FM/AM Function Not in Use Display H- Active
66	DAB_LED_G	O	DAB Function Middle Display H- Active
67	DAB_LED_R	O	DAB Function Not in use Display H- Active
68	KEY1	A/D	Key Input (A/D)
69	STBY_LED	O	Standby LED
70	CRT	O A/D	Power Failure Time Detection CR Timer (O, AD co-used) A/D used only when power is recovered
71	DAB_PDET	A/D	DAB Power Supply Monitoring (A/D) OK: 5 V ±20%, Input Division 10/(10+12)

Pin No.	Mark	I/O	Function
72	PDET	A/D	DAB Power Supply Monitoring (A/D) OK: 9V±20%, Input Division 10/ (10+27)
73	REGION	I	Switch H: UK, L: All Europe
74	NC	I	GND Connection - 1 Fixed Not to be used for testing
75	AVSS	-	Analog Power Supply GND
76	NC	I A/D	Normally GND Connection - 1 fixed (Non test use) When in Jig Mode 10 Key Input Alternate
77	VREF	-	Reference Input for A/D
78	AVDD	-	Analog Power Supply Input
79	LCD_CSB	O	LCD Chip Select
80	LCD_SI	O	LCD Serial Data

18 Replacement Parts List

Notes:

- Important safety notice:

  Components identified by ⚠ ; mark have special characteristics important for safety.

  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

  When replacing any of these components, be sure to use only manufacturers's specified parts shown in the parts list.
- The parenthesized indications in the Remarks column specify the areas. (Refer to the cover page for area.)

  Parts without these indications can be used for all areas.
- Warning: This product uses a laser diode. Refer to caution statements on "Precaution of Laser Diode"
- Capacitor values are in microfarad (μF) unless specified otherwise, P=Pico-farads(pF); Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1,000(ohms).
- The marking (RTL) indicates the Retention Time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.
- All parts are supplied by **ASPC**.

18.1. SA-EN29

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
		CD P.C.B. ASS'Y		
C701	EEE0JA330WR	6.3V 33U	1	
C702	F1H1C104A042	16V 0.1U	1	
C703	EEE0JA101WR	6.3V 100U	1	
C704	F1H1C104A042	16V 0.1U	1	
C705	ECUV1E104ZFV	25V 0.1U	1	
C706	F1H1C104A042	16V 0.1U	1	
C707	ECUV1C223KBV	16V 0.022U	1	
C708	F1H1C104A042	16V 0.1U	1	
C710	ECUV1H471JCV	50V 470P	1	
C711	ECUV1C223KBV	16V 0.022U	1	
C712	ECUV1C223KBV	16V 0.022U	1	
C713	ECUV1E104ZFV	25V 0.1U	1	
C714	EEE0JA101WR	6.3V 100U	1	
C715	ECUVNC154KBV	16V 0.15U	1	
C717	ECUV1E104ZFV	25V 0.1U	1	
C718	ECUV1C823KBV	16V 0.082U	1	
C721	ECUV1H330JCV	50V 33P	1	
C722	ECUV1H330JCV	50V 33P	1	
C723	EEE0GA331WP	4V 330U	1	
C724	F1H1C104A042	16V 0.1U	1	
C725	ECUV1H102KBV	50V 1000P	1	
C726	ECUV1H102KBV	50V 1000P	1	
C729	F1H1C104A042	16V 0.1U	1	
C730	F1H1C104A042	16V 0.1U	1	
C731	EEE0JA221WP	6.3V 220U	1	
C733	ECUV1E104ZFV	25V 0.1U	1	
C734	EEE0JA221WP	6.3V 220U	1	
C735	ECUV1E104ZFV	25V 0.1U	1	
C738	ECUV1C333KBV	16V 0.033U	1	
C739	ECUV1H272KBV	50V 2700P	1	
C740	F1H1C104A042	16V 0.1U	1	
C741	ECUV1H102KBV	50V 1000P	1	
C742	ECUV1C223KBV	16V 0.022U	1	
C743	ECUV1E104ZFV	25V 0.1U	1	
C744	ECUV1C223KBV	16V 0.022U	1	
C746	F1H1C104A042	16V 0.1U	1	
C747	ECUV1H821JCV	50V 820P	1	
C748	F1H1C104A042	16V 0.1U	1	
C749	ECUV1H472KBV	50V 4700P	1	
C752	ECUV1H272KBV	50V 2700P	1	
C753	ECUV1H471KBV	50V 470P	1	
C754	F1H1C104A042	16V 0.1U	1	
C755	F1H1C104A042	16V 0.1U	1	
C756	EEE1EA4R7SR	25V 4.7U	1	
C757	EEE1EA4R7SR	25V 4.7U	1	
C758	F1H1C104A042	16V 0.1U	1	
C776	ECUV1E103KBV	25V 0.01U	1	
C777	ECUV1H821KBV	50V 820P	1	
C786	ECUV1H221KBV	50V 220P	1	
C787	ECUV1H221KBV	50V 220P	1	
C788	ECUV1H221KBV	50V 220P	1	
CN701	K1MY24BA0106	CONNECTOR	1	
FFC701	REE1368	CD SERVO FFC	1	
IC701	AN22003A-VF	IC	1	
IC702	MN6627934CH	IC	1	
IC703	AN8739SB-E2V	IC	1	
IC704	C3ABMB000043	IC	1	
Q701	2SB0709A0L	TRANSISTOR	1	
R701	ERJ3GEYJ4R7V	1/10W 4.7	1	
R702	ERJ3GEYJ332V	1/10W 3.3K	1	
R703	ERJ3GEYJ5R6V	1/10W 5.6	1	
R704	ERJ3GEYJ102V	1/10W 1K	1	
R705	ERJ3GEYJ393V	1/10W 39K	1	
R706	ERJ3GEYJ102V	1/10W 1K	1	
R709	ERJ3GEYJ104V	1/10W 100K	1	
R711	ERJ3GEYJ823V	1/10W 82K	1	
R712	ERJ3GEYJ821V	1/10W 820	1	
R714	ERJ3GEYJ101V	1/10W 100	1	
R715	ERJ3GEYJ472V	1/10W 4.7K	1	
R717	ERJ3GEYJ102V	1/10W 1K	1	
R718	ERJ3GEYJ102V	1/10W 1K	1	
R720	ERJ3GEYJ105V	1/10W 1M	1	
R721	ERJ3GEYJ101V	1/10W 100	1	
R723	ERJ3GEYJ682V	1/10W 6.8K	1	
R725	ERJ3GEYJ102V	1/10W 1K	1	
R727	ERJ3GEYJ562V	1/10W 5.6K	1	
R728	ERJ3GEYJ683V	1/10W 68K	1	
R729	ERJ3GEYJ562V	1/10W 5.6K	1	
R731	ERJ3GEYJ473V	1/10W 47K	1	
R732	ERJ3GEYJ102V	1/10W 1K	1	
R735	ERJ3GEYJ101V	1/10W 100	1	
R736	ERJ3GEYJ101V	1/10W 100	1	
R744	ERJ3GEYJ273V	1/10W 27K	1	
R745	ERJ3GEY0R00V	1/10W 0	1	
R749	ERJ3GEYJ683V	1/10W 68K	1	
R750	ERJ3GEYJ5R6V	1/10W 5.6	1	
R763	ERJ3GEYJ683V	1/10W 68K	1	
R764	ERJ3GEYJ683V	1/10W 68K	1	
R771	ERJ3GEYJ683V	1/10W 68K	1	
R772	ERJ3GEYJ683V	1/10W 68K	1	
R773	ERJ3GEYJ683V	1/10W 68K	1	
R774	ERJ3GEYJ102V	1/10W 1K	1	
X701	H2A169500009	CRYSTAL	1	
		MAIN P.C.B. ASS'Y		
C1	ECUV1H470JCV	50V 47P	1	
C2	ECUV1H100DCV	50V 10P	1	
C3	ECUV1C333KBV	16V 0.033U	1	
C4	ECEA1CKA100B	16V 10U	1	
C5	ECUV1C473KBV	16V 0.047U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6	ECUV1H102KBV	50V 1000P	1	
C7	ECUV1H102KBV	50V 1000P	1	
C8	ECUV1H060DCV	50V 6P	1	
C9	ECUV1E103KBV	25V 0.01U	1	
C10	ECUV1E103KBV	25V 0.01U	1	
C11	ECUV1H102KBV	50V 1000P	1	
C12	ECUV1C473KBV	16V 0.047U	1	
C13	ECUV1H150JCV	50V 15P	1	
C15	ECUV1C473KBV	16V 0.047U	1	
C16	ECUV1H150JCV	50V 15P	1	
C17	ECEA1HKA3R3B	50V 3.3U	1	
C18	ECUV1E103KBV	25V 0.01U	1	
C19	ECEA1HKA010B	50V 1U	1	
C20	ECEA1CKA101B	16V 100U	1	
C21	ECEA1HKA010B	50V 1U	1	
C22	ECEA1HKAR47B	50V 0.47U	1	
C23	ECEA1AKA101B	10V 100U	1	
C24	ECEA1AKA220B	10V 22U	1	
C25	ECUV1C183KBV	16V 0.018U	1	
C26	ECUV1E103KBV	25V 0.01U	1	
C27	ECUV1C183KBV	16V 0.018U	1	
C28	ECUV1H102KBV	50V 1000P	1	
C29	ECUV1H102KBV	50V 1000P	1	
C30	ECEA1HKA010B	50V 1U	1	
C31	ECEA1HKA010B	50V 1U	1	
C32	ECEA1HKA4R7B	50V 4.7U	1	
C33	ECUV1H101KCV	50V 100P	1	
C34	ECUV1H270JCV	50V 27P	1	
C35	ECUV1H101KCV	50V 100P	1	
C36	ECUV1H220JCV	50V 22P	1	
C37	ECUV1H101KCV	50V 100P	1	
C39	ECUV1H102KBV	50V 1000P	1	
C40	ECEA1AKA101B	10V 100U	1	
C41	ECUV1H331KBV	50V 330P	1	
C43	ECUV1C473KBV	16V 0.047U	1	
C44	ECUV1C223KBV	16V 0.022U	1	
C46	ECUV1H222KBV	50V 2200P	1	
C47	F1D1H100A015	50V 10P	1	
C51	ECUV1H070DCV	50V 7P	1	
C102	ECEA1HKA4R7B	50V 4.7U	1	
C103	F1H1C104A042	16V 0.1U	1	
C104	F1H1C104A042	16V 0.1U	1	
C105	F1H1C104A042	16V 0.1U	1	
C106	ECUV1H102KBV	50V 1000P	1	
C107	ECUV1H102KBV	50V 1000P	1	
C108	ECUV1H102KBV	50V 1000P	1	
C109	ECUV1C683KBV	16V 0.068U	1	
C110	F1H1C104A042	16V 0.1U	1	
C111	ECUV1E103KBV	25V 0.01U	1	
C112	ECUV1H153KBV	50V 0.015U	1	
C113	ECEA1HKAR22B	50V 0.22U	1	
C114	ECUV1C473KBV	16V 0.047U	1	
C115	ECEA1HKA010B	50V 1U	1	
C116	ECEA1HKA010B	50V 1U	1	
C117	ECUV1H682KBV	50V 6800P	1	
C118	ECUV1C333KBV	16V 0.033U	1	
C119	ECUV1E103KBV	25V 0.01U	1	
C127	ECUV1H102KBV	50V 1000P	1	
C128	F1H1C104A042	16V 0.1U	1	
C129	ECEA1HKA010B	50V 1U	1	
C202	ECEA1HKA4R7B	50V 4.7U	1	
C203	F1H1C104A042	16V 0.1U	1	
C204	F1H1C104A042	16V 0.1U	1	
C205	F1H1C104A042	16V 0.1U	1	
C206	ECUV1H102KBV	50V 1000P	1	
C207	ECUV1H102KBV	50V 1000P	1	
C208	ECUV1H102KBV	50V 1000P	1	
C209	ECUV1C683KBV	16V 0.068U	1	
C210	F1H1C104A042	16V 0.1U	1	
C211	ECUV1E103KBV	25V 0.01U	1	
C212	ECUV1H153KBV	50V 0.015U	1	
C213	ECEA1HKAR22B	50V 0.22U	1	
C214	ECUV1C473KBV	16V 0.047U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C215	ECEA1HKA010B	50V 1U	1	
C216	ECEA1HKA010B	50V 1U	1	
C217	ECUV1H682KBV	50V 6800P	1	
C218	ECUV1C333KBV	16V 0.033U	1	
C219	ECUV1E103KBV	25V 0.01U	1	
C227	ECUV1H102KBV	50V 1000P	1	
C228	F1H1C104A042	16V 0.1U	1	
C229	ECEA1HKA010B	50V 1U	1	
C301	ECUV1H102KBV	50V 1000P	1	
C305	ECUV1H221KBV	50V 220P	1	
C309	ECEA1AKA470B	10V 47U	1	
C310	ECA1CM101B	16V 100U	1	
C311	ECEA1HKAR33B	50V 0.33U	1	
C312	ECUV1H221KBV	50V 220P	1	
C313	ECUV1H221KBV	50V 220P	1	
C314	ECEA1CKA100B	16V 10U	1	
C315	ECEA0JKA101B	6.3V 100U	1	
C353	ECA1AM221B	10V 220U	1	
C356	ECUV1H221KBV	50V 220P	1	
C357	ECUV1H221KBV	50V 220P	1	
C358	ECA1AM102B	10V 1000U	1	
C410	ECEA1HKAR22B	50V 0.22U	1	
C411	ECUV1H471KBV	50V 470P	1	
C412	ECA1AM102B	10V 1000U	1	
C413	ECUV1C473KBV	16V 0.047U	1	
C414	ECUV1H102KBV	50V 1000P	1	
C415	ECUV1H331KBV	50V 330P	1	
C416	ECUV1H332KBV	50V 3300P	1	
C419	ECUV1H222KBV	50V 2200P	1	
C510	ECEA1HKAR22B	50V 0.22U	1	
C511	ECUV1H471KBV	50V 470P	1	
C512	ECA1AM102B	10V 1000U	1	
C513	ECUV1C473KBV	16V 0.047U	1	
C514	ECUV1H102KBV	50V 1000P	1	
C515	ECUV1H331KBV	50V 330P	1	
C516	ECUV1H332KBV	50V 3300P	1	
C519	ECUV1H222KBV	50V 2200P	1	
C603	ECEA1AKA220B	10V 22U	1	
C604	ECEA1HKA4R7B	50V 4.7U	1	
C605	ECEA1CKA101B	16V 100U	1	
C606	ECUV1E103KBV	25V 0.01U	1	
C608	ECA1EM100B	25V 10U	1	
C609	ECEA1EKA100B	25V 10U	1	
C610	ECA1EM100B	25V 10U	1	
C611	ECA0JM472E	6.3V 4700U	1	
C612	ECEA0JKA101B	6.3V 100U	1	
C613	ECUV1H102KBV	50V 1000P	1	
C615	ECEA1CKA101B	16V 100U	1	
C616	ECA1EM332E	25V 3300U	1	
C617	ECEA1CKA220B	16V 22U	1	
C618	ECUV1H102KBV	50V 1000P	1	
C619	ECUV1C473KBV	16V 0.047U	1	
C620	ECUV1H102KBV	50V 1000P	1	
C621	ECUV1C473KBV	16V 0.047U	1	
C630	ECUV1E105ZFN	25V 1U	1	
C631	ECUV1H471KBV	50V 470P	1	
C801	ECEA0JKA101B	6.3V 100U	1	
C802	ECUV1H102KBV	50V 1000P	1	
C803	ECUV1H102KBV	50V 1000P	1	
C804	ECUV1H102KBV	50V 1000P	1	
C805	ECUV1H221KBV	50V 220P	1	
C806	ECUV1H102KBV	50V 1000P	1	
C807	ECUV1H220JCV	50V 22P	1	
C808	ECUV1H270JCV	50V 27P	1	
C809	ECUV1H102KBV	50V 1000P	1	
C812	ECUV1H150JCV	50V 15P	1	
C813	ECUV1H180JCV	50V 18P	1	
C814	ECA1HM2R2B	50V 2.2U	1	
C815	ECEA1HKA010B	50V 1U	1	
C816	ECUV1H102KBV	50V 1000P	1	
C817	ECUV1H102KBV	50V 1000P	1	
C818	ECUV1H102KBV	50V 1000P	1	
C819	F1H1C104A042	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C820	ECEA1EKA100B	25V 10U	1	
C821	ECUV1H102KBV	50V 1000P	1	
C822	ECUV1H102KBV	50V 1000P	1	
C823	ECUV1H221KBV	50V 220P	1	
C826	ECUV1H102KBV	50V 1000P	1	
C827	F1H1C104A042	16V 0.1U	1	
C830	ECUV1H102KBV	50V 1000P	1	
C832	F1H1C104A042	16V 0.1U	1	
C833	F3F1C105A032	16V 1U	1	
C834	F3F1C105A032	16V 1U	1	
C835	F3F0J226A055	6.3V 22U	1	
C836	ECUV1H102KBV	50V 1000P	1	
C837	ECUV1H221KBV	50V 220P	1	
C839	ECUV1H221KBV	50V 220P	1	
C840	ECUV1H102KBV	50V 1000P	1	
C844	ECUV1H102KBV	50V 1000P	1	
C901	ECUV1H102KBN	50V 1000P	1	
C902	ECUV1H102KBN	50V 1000P	1	
C1001	ECEA1CKA100	16V 10U	1	
C7001	ECUV1H221KBV	50V 220P	1	
C7002	ECUV1E103KBV	25V 0.01U	1	
CF1	J0B1075A0101	FM CERAMIC FILTER	1	
CF2	RLFCFA459L4B	AM FILTER	1	
CN901	K1QKB1BB0002	CONNECTOR	1	
CP2	K1KA02AA0180	CONNECTOR	1	
CP301	K1KA02BA0061	CONNECTOR	1	
CP351	K1KA05AA0180	CONNECTOR	1	
CP601	K1KA14AA0031	CONNECTOR	1	
CP602	K1KA14AA0031	CONNECTOR	1	
CP1004	K1KA03AA0180	CONNECTOR	1	
CS601	K1KB14B00026	CONNECTOR	1	
CS602	K1KB14B00026	CONNECTOR	1	
CS701	K1MN17B00032	CONNECTOR	1	
CS801	K1MY31AA0055	CONNECTOR	1	
CS802	K1MN18B00013	CONNECTOR	1	
D1	B0CDAD000010	VARI CAP	1	
D2	B0CDAB000019	DIODE	1	
D3	B0CDAB000019	DIODE	1	
D4	RVD1SS133TA	DIODE	1	
D301	MAZ40560MF	DIODE	1	
D302	B0EAKM000118	DIODE	1	
D602	B0EAKM000118	DIODE	1	
D603	B0EAKM000118	DIODE	1	
D604	B0EAKM000118	DIODE	1	
D605	RVD1SS133TA	DIODE	1	
D607	RVD1SS133TA	DIODE	1	
D608	MAZ40910LF	DIODE	1	
D609	RVD1SS133TA	DIODE	1	
D610	MAZ40560MF	DIODE	1	
D611	RVD1SS133TA	DIODE	1	
D612	RVD1SS133TA	DIODE	1	
D613	1SS291TA	DIODE	1	
D614	MAZ40620MF	DIODE	1	
D615	MAZ40470MF	DIODE	1	
D616	B0EAKM000118	DIODE	1	
D801	RVD1SS133TA	DIODE	1	
D802	RVD1SS133TA	DIODE	1	
D803	1SS291TA	DIODE	1	
D804	B3AAA0000707	RED LED	1	
D805	B3ACA0000306	LED	1	
D806	B3ACA0000306	LED	1	
D807	B3ACA0000306	LED	1	
D809	MAZ40820MF	DIODE	1	
D810	MAZ40820MF	DIODE	1	
D811	MAZ40820MF	DIODE	1	
D1001	MAZ40820MF	DIODE	1	
D1002	B3AFA0000060	LED	1	
D1006	MAZ40820MF	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
FFC801	REE1370	FFC	1	
FP601	K5G302AA0002	FUSE	1	
FP602	K5G251A00008	FUSE PROTECTOR	1	
IC1	C1BB00000846	IC	1	
IC301	C1BB00000732	IC	1	
IC351	C0GAE0000007	IC	1	
IC601	C1BA00000372	IC	1	
IC801	C2CBKJ000169	MICON	1	
IC7001	C3EBCG000031	EEPROM	1	
J1	ERJ3GEY0R00V	1/10W 0	1	
J2	ERJ3GEY0R00V	1/10W 0	1	
JK601	RJJ37TK09	HEADPHONE JACK	1	
JK602	K4BC04B00055	SPEAKER JACK	1	
JK603	K2HC103B0149	AUX JACK	1	
JK604	K2ED2B000007	DC JACK	1	
JK605	K1KA02BA0125	CONNECTOR	1	
JK606	K2HC103B0149	AUX JACK	1	
L1	RLQY30S1W-F	COIL	1	
L3	RLQY30S1W-F	COIL	1	
L5	G0ZZ00002174	FM COIL	1	
L7	G2BPC0000017	COIL	1	
L8	RLQZP101KT-Y	COIL	1	
L51	G2A390C00001	COIL	1	
L101	RLL500050T-Y	COIL	1	
L201	RLL500050T-Y	COIL	1	
L302	RLL500050T-Y	COIL	1	
L303	RLL500050T-Y	COIL	1	
L401	J0JBC0000032	COIL	1	
L402	RLQZP101KT-Y	COIL	1	
L403	J0JBC0000032	COIL	1	
L404	G0AR76Y00002	COIL	1	
L415	J0JBC0000032	COIL	1	
L501	J0JBC0000032	COIL	1	
L502	RLQZP101KT-Y	COIL	1	
L503	J0JBC0000032	COIL	1	
L504	G0AR76Y00002	COIL	1	
L515	J0JBC0000032	COIL	1	
L601	J0JBC0000032	COIL	1	
L602	RLQZP101KT-Y	COIL	1	
L603	RLQZP101KT-Y	COIL	1	
L615	J0JBC0000032	COIL	1	
L801	RLQA2R2JT1-Y	COIL	1	
L802	RLQA2R2JT1-Y	COIL	1	
L803	RLQA2R2JT1-Y	COIL	1	
L804	RLQA2R2JT1-Y	COIL	1	
L814	G0C2R2JA0019	COIL	1	
L901	RLQA2R2JT1-Y	COIL	1	
L902	RLQZP101KT-Y	COIL	1	
Q101	2SD1819ARL	TRANSISTOR	1	
Q201	2SD1819ARL	TRANSISTOR	1	
Q301	UNR511600L	TRANSISTOR	1	
Q302	KTC3199GRTA	TRANSISTOR	1	
Q403	B1ABGD000021	TRANSISTOR	1	
Q404	B1ABGD000021	TRANSISTOR	1	
Q503	B1ABGD000021	TRANSISTOR	1	
Q504	B1ABGD000021	TRANSISTOR	1	
Q603	B1ACND000003	TRANSISTOR	1	
Q604	2SD1819ARL	TRANSISTOR	1	
Q605	2SA20570P	TRANSISTOR	1	
Q606	KTA2014GRRTK	TRANSISTOR	1	
Q607	2SD1819ARL	TRANSISTOR	1	
Q608	B1ACND000003	TRANSISTOR	1	
Q609	UNR521400L	TRANSISTOR	1	
Q610	2SD1819ARL	TRANSISTOR	1	
Q611	2SA20570P	TRANSISTOR	1	
Q612	2SD1819ARL	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q613	KTA2014GRRTK	TRANSISTOR	1	
Q614	UNR521F00L	TRANSISTOR	1	
Q615	B1BAAJ000003	TRANSISTOR	1	
Q616	UNR511100L	TRANSISTOR	1	
Q801	2SD1819ARL	TRANSISTOR	1	
Q802	2SD1819ARL	TRANSISTOR	1	
Q803	UNR521300L	TRANSISTOR	1	
Q804	UNR511100L	TRANSISTOR	1	
Q805	UNR521100L	TRANSISTOR	1	
Q809	UNR521100L	TRANSISTOR	1	
Q813	UNR521100L	TRANSISTOR	1	
Q817	UNR521100L	TRANSISTOR	1	
Q820	UNR521F00L	TRANSISTOR	1	
Q821	UNR511100L	TRANSISTOR	1	
Q822	B1ACND000003	TRANSISTOR	1	
R1	ERJ3GEYJ103V	1/10W 10K	1	
R2	ERJ3GEY0R00V	1/10W 0	1	
R3	ERJ3GEYJ332V	1/10W 3.3K	1	
R4	ERJ3GEYJ104V	1/10W 100K	1	
R5	ERJ3GEYJ680V	1/10W 68	1	
R6	ERJ3GEYJ104V	1/10W 100K	1	
R7	ERJ3GEYJ104V	1/10W 100K	1	
R8	ERJ3GEYJ103V	1/10W 10K	1	
R9	ERJ3GEY0R00V	1/10W 0	1	
R10	ERJ3GEYJ104V	1/10W 100K	1	
R11	ERJ3GEYJ332V	1/10W 3.3K	1	
R12	ERJ3GEYJ152V	1/10W 1.5K	1	
R13	ERJ3GEYJ332V	1/10W 3.3K	1	
R14	ERJ3GEYJ472V	1/10W 4.7K	1	
R16	ERJ3GEYJ103V	1/10W 10K	1	
R17	ERJ3GEYJ103V	1/10W 10K	1	
R18	ERJ3GEYJ223V	1/10W 22K	1	
R20	ERJ3GEYJ103V	1/10W 10K	1	
R22	ERJ3GEYJ103V	1/10W 10K	1	
R23	ERJ3GEYJ223V	1/10W 22K	1	
R24	ERJ3GEYJ223V	1/10W 22K	1	
R25	ERJ3GEYJ223V	1/10W 22K	1	
R28	ERJ3GEYJ104V	1/10W 100K	1	
R29	ERJ3GEYJ102V	1/10W 1K	1	
R30	ERJ3GEYJ393V	1/10W 39K	1	
R31	ERJ3GEYJ472V	1/10W 4.7K	1	
R33	ERJ3GEYJ472V	1/10W 4.7K	1	
R101	ERDS2TJ473T	1/4W 47K	1	
R102	ERJ3GEYJ562V	1/10W 5.6K	1	
R103	ERJ3GEYJ473V	1/10W 47K	1	
R104	ERJ3GEYJ562V	1/10W 5.6K	1	
R105	ERJ3GEYJ562V	1/10W 5.6K	1	
R106	ERDS2TJ103T	1/4W 10K	1	
R107	ERJ3GEYJ223V	1/10W 22K	1	
R108	ERJ3GEYJ332V	1/10W 3.3K	1	
R109	ERJ3GEYJ103V	1/10W 10K	1	
R110	ERJ3GEYJ392V	1/10W 3.9K	1	
R111	ERJ3GEYJ333V	1/10W 33K	1	
R112	ERJ3GEYJ682V	1/10W 6.8K	1	
R120	ERJ3GEYJ473V	1/10W 47K	1	
R129	ERJ3GEYJ562V	1/10W 5.6K	1	
R201	ERDS2TJ473T	1/4W 47K	1	
R202	ERJ3GEYJ562V	1/10W 5.6K	1	
R203	ERJ3GEYJ473V	1/10W 47K	1	
R204	ERJ3GEYJ562V	1/10W 5.6K	1	
R205	ERJ3GEYJ562V	1/10W 5.6K	1	
R206	ERDS2TJ103T	1/4W 10K	1	
R207	ERJ3GEYJ223V	1/10W 22K	1	
R208	ERJ3GEYJ332V	1/10W 3.3K	1	
R209	ERJ3GEYJ103V	1/10W 10K	1	
R210	ERJ3GEYJ392V	1/10W 3.9K	1	
R211	ERJ3GEYJ333V	1/10W 33K	1	
R212	ERJ3GEYJ682V	1/10W 6.8K	1	
R220	ERJ3GEYJ473V	1/10W 47K	1	
R229	ERJ3GEYJ562V	1/10W 5.6K	1	
R301	ERJ3GEYJ223V	1/10W 22K	1	
R302	ERJ3GEYJ223V	1/10W 22K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R303	ERJ3GEYJ223V	1/10W 22K	1	
R304	ERJ3GEYJ223V	1/10W 22K	1	
R305	ERJ3GEYJ103V	1/10W 10K	1	
R306	ERJ3GEYJ102V	1/10W 1K	1	
R307	ERJ3GEYJ102V	1/10W 1K	1	
R308	ERJ3GEYJ102V	1/10W 1K	1	
R309	ERJ3GEYJ102V	1/10W 1K	1	
R312	ERJ3GEYJ102V	1/10W 1K	1	
R313	ERJ3GEYJ102V	1/10W 1K	1	
R314	ERJ3GEYJ224V	1/10W 220K	1	
R316	ERDS2TJ334T	1/4W 330K	1	
R317	ERJ3GEYJ334V	1/10W 330K	1	
R318	ERDS2TJ330T	1/4W 33	1	
R319	ERDS2TJ330T	1/4W 33	1	
R320	ERJ3GEYJ332V	1/10W 3.3K	1	
R321	ERJ3GEYJ333V	1/10W 33K	1	
R322	ERJ3GEYJ101V	1/10W 100	1	
R323	ERJ3GEYJ471V	1/10W 470	1	
R404	ERJ8GEYJ100V	1/4W 10	1	
R414	ERJ3GEYJ102V	1/10W 1K	1	
R415	ERJ3GEYJ151V	1/10W 150	1	
R416	ERJ3GEYJ273V	1/10W 27K	1	
R418	ERJ3GEYJ104V	1/10W 100K	1	
R419	ERJ3GEYJ222V	1/10W 2.2K	1	
R420	ERJ3GEYJ222V	1/10W 2.2K	1	
R504	ERJ8GEYJ100V	1/4W 10	1	
R514	ERJ3GEYJ102V	1/10W 1K	1	
R515	ERJ3GEYJ151V	1/10W 150	1	
R516	ERJ3GEYJ273V	1/10W 27K	1	
R518	ERJ3GEYJ104V	1/10W 100K	1	
R519	ERJ3GEYJ222V	1/10W 2.2K	1	
R520	ERJ3GEYJ222V	1/10W 2.2K	1	
R605	ERJ3GEYJ102V	1/10W 1K	1	
R607	ERDS2TJ152T	1/4W 1.5K	1	
R608	ERJ3GEYJ333V	1/10W 33K	1	
R609	ERJ3GEYJ472V	1/10W 4.7K	1	
R612	ERJ3GEYJ222V	1/10W 2.2K	1	
R613	ERJ3GEYJ223V	1/10W 22K	1	
R614	ERDS2TJ151T	1/4W 150	1	
R615	ERJ3GEYJ1R0V	1/10W 1	1	
R616	ERDS2TJ471T	1/4W 470	1	
R617	ERJ3GEYJ101V	1/10W 100	1	
R618	ERJ3GEYJ681V	1/10W 680	1	
R619	ERJ3GEYJ681V	1/10W 680	1	
R620	ERJ3GEYJ2R2V	1/10W 2.2	1	
R621	ERDS2TJ1R0T	1/4W 1	1	
R622	ERDS2TJ1R0T	1/4W 1	1	
R623	ERDS2TJ471T	1/4W 470	1	
R624	ERDS2TJ471T	1/4W 470	1	
R625	ERDS2TJ121T	1/4W 120	1	
R626	ERDS2TJ121T	1/4W 120	1	
R627	ERDS2TJ221T	1/4W 220	1	
R628	ERJ3GEYJ101V	1/10W 100	1	
R629	ERJ3GEYJ681V	1/10W 680	1	
R630	ERJ3GEYJ221V	1/10W 220	1	
R631	ERJ3GEYJ102V	1/10W 1K	1	
R632	ERJ3GEYJ472V	1/10W 4.7K	1	
R633	ERJ3GEYJ103V	1/10W 10K	1	
R634	ERJ3GEYJ101V	1/10W 100	1	
R635	ERJ3GEYJ222V	1/10W 2.2K	1	
R637	ERJ3GEYJ273V	1/10W 27K	1	
R638	ERJ3GEYJ272V	1/10W 2.7K	1	
R639	ERJ3GEYJ332V	1/10W 3.3K	1	
R640	ERJ3GEYJ333V	1/10W 33K	1	
R641	ERJ3GEYJ102V	1/10W 1K	1	
R800	ERJ3GEYJ105V	1/10W 1M	1	
R801	ERJ3GEYJ104V	1/10W 100K	1	
R802	ERJ3GEYJ103V	1/10W 10K	1	
R803	ERJ3GEYJ103V	1/10W 10K	1	
R804	ERJ3GEYJ103V	1/10W 10K	1	
R805	ERJ3GEYJ102V	1/10W 1K	1	
R806	ERJ3GEY0R00V	1/10W 0	1	
R807	ERDS2TJ332T	1/4W 3.3K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R808	ERDS2TJ332T	1/4W 3.3K	1	
R809	ERJ3GEYJ331V	1/10W 330	1	
R810	ERJ3GEYJ473V	1/10W 47K	1	
R811	ERJ3GEYJ473V	1/10W 47K	1	
R812	ERJ3GEYJ102V	1/10W 1K	1	
R813	ERJ3GEYJ221V	1/10W 220	1	
R815	ERJ3GEYJ471V	1/10W 470	1	
R816	ERJ3GEYJ473V	1/10W 47K	1	
R817	ERDS2TJ273T	1/4W 27K	1	
R819	ERJ3GEYJ472V	1/10W 4.7K	1	
R820	ERJ3GEYJ103V	1/10W 10K	1	
R821	ERJ3GEYJ102V	1/10W 1K	1	
R822	ERJ3GEYJ102V	1/10W 1K	1	
R823	ERJ3GEYJ102V	1/10W 1K	1	
R824	ERDS2TJ224T	1/4W 220K	1	
R825	ERJ3GEYJ102V	1/10W 1K	1	
R826	ERJ3GEYJ103V	1/10W 10K	1	
R827	ERDS2TJ102T	1/4W 1K	1	
R828	ERJ3GEYJ102V	1/10W 1K	1	
R829	ERJ3GEYJ102V	1/10W 1K	1	
R830	ERJ3GEYJ334V	1/10W 330K	1	
R831	ERJ3GEYJ334V	1/10W 330K	1	
R832	ERJ3GEYJ104V	1/10W 100K	1	
R833	ERJ3GEYJ103V	1/10W 10K	1	
R834	ERJ3GEYJ102V	1/10W 1K	1	
R835	ERJ3GEYJ102V	1/10W 1K	1	
R836	ERJ3GEYJ102V	1/10W 1K	1	
R837	ERJ3GEYJ102V	1/10W 1K	1	
R838	ERJ3GEYJ102V	1/10W 1K	1	
R839	ERJ3GEYJ102V	1/10W 1K	1	
R840	ERJ3GEYJ153V	1/10W 15K	1	
R841	ERDS2TJ560T	1/4W 56	1	
R842	ERDS2TJ121T	1/4W 120	1	
R843	ERDS2TJ121T	1/4W 120	1	
R844	ERDS2TJ121T	1/4W 120	1	
R845	ERJ3GEYJ334V	1/10W 330K	1	
R846	ERJ3GEYJ152V	1/10W 1.5K	1	
R847	ERJ3GEYJ222V	1/10W 2.2K	1	
R848	ERJ3GEYJ272V	1/10W 2.7K	1	
R849	ERJ3GEYJ392V	1/10W 3.9K	1	
R850	ERJ3GEYJ562V	1/10W 5.6K	1	
R851	ERJ3GEYJ822V	1/10W 8.2K	1	
R852	ERJ3GEYJ153V	1/10W 15K	1	
R853	ERJ3GEYJ333V	1/10W 33K	1	
R854	ERJ3GEYJ823V	1/10W 82K	1	
R855	ERJ3GEYJ103V	1/10W 10K	1	
R856	ERJ3GEYJ103V	1/10W 10K	1	
R857	ERJ3GEY0R00V	1/10W 0	1	
R858	ERJ3GEY0R00V	1/10W 0	1	
R862	ERJ3GEYJ222V	1/10W 2.2K	1	
R863	ERJ3GEYJ222V	1/10W 2.2K	1	
R865	ERJ3GEYJ123V	1/10W 12K	1	
R869	ERJ3GEYJ221V	1/10W 220	1	
R870	ERJ3GEYJ221V	1/10W 220	1	
R871	ERJ3GEYJ271V	1/10W 270	1	
R872	ERJ3GEY0R00V	1/10W 0	1	
R873	ERJ3GEY0R00V	1/10W 0	1	
R874	ERJ3GEYJ101V	1/10W 100	1	
R875	ERJ3GEYJ101V	1/10W 100	1	
R876	ERJ3GEYJ101V	1/10W 100	1	
R877	ERJ3GEYJ101V	1/10W 100	1	
R878	ERJ3GEYJ101V	1/10W 100	1	
R879	ERJ3GEYJ101V	1/10W 100	1	
R880	ERJ3GEYJ102V	1/10W 1K	1	
R881	ERJ3GEYJ102V	1/10W 1K	1	
R882	ERJ3GEYJ471V	1/10W 470	1	
R883	ERJ3GEYJ221V	1/10W 220	1	
R884	ERJ3GEYJ102V	1/10W 1K	1	
R885	ERDS2TJ102T	1/4W 1K	1	
R886	ERJ3GEYJ102V	1/10W 1K	1	
R887	ERJ3GEYJ102V	1/10W 1K	1	
R888	ERJ3GEY0R00V	1/10W 0	1	
R889	ERJ3GEYJ102V	1/10W 1K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R890	ERDS2TJ102T	1/4W 1K	1	
R891	ERJ3GEYJ102V	1/10W 1K	1	
R892	ERJ3GEYJ102V	1/10W 1K	1	
R893	ERJ3GEYJ102V	1/10W 1K	1	
R894	ERJ3GEYJ102V	1/10W 1K	1	
R895	ERJ3GEYJ102V	1/10W 1K	1	
R896	ERJ3GEYJ102V	1/10W 1K	1	
R897	ERJ3GEYJ102V	1/10W 1K	1	
R898	ERJ3GEYJ104V	1/10W 100K	1	
R899	ERJ3GEYJ104V	1/10W 100K	1	
R1003	ERDS2TJ271T	1/4W 270	1	
R7001	ERJ3GEYJ472V	1/10W 4.7K	1	
R7005	ERJ3GEYJ104V	1/10W 100K	1	
R7006	ERJ3GEYJ104V	1/10W 100K	1	
RX874	ERJ3GEY0R00V	1/10W 0	1	
RX875	ERJ3GEY0R00V	1/10W 0	1	
RX876	ERJ3GEY0R00V	1/10W 0	1	
RX877	ERJ3GEY0R00V	1/10W 0	1	
RX878	ERJ3GEY0R00V	1/10W 0	1	
RX879	ERJ3GEY0R00V	1/10W 0	1	
S301	EVQ21405R	TACK SWITCH	1	
S801	EVQ11G09K	TACT SWITCH	1	
S802	EVQ11G09K	TACT SWITCH	1	
S803	EVQ11G09K	TACT SWITCH	1	
S804	EVQ11G09K	TACT SWITCH	1	
S805	EVQ11G09K	TACT SWITCH	1	
S806	EVQ11G09K	TACT SWITCH	1	
S807	EVQ11G09K	TACT SWITCH	1	
S808	EVQ11G09K	TACT SWITCH	1	
S809	EVQ11G09K	TACT SWITCH	1	
S810	EVQ11G09K	TACT SWITCH	1	
S1002	K0L1CA000002	CD CLOSE DETECT SW	1	
S1003	K0L1CA000002	CD CLOSE DETECT SW	1	
T1	G2BAC0000054	IFT	1	
W1	RWJ0210085SS	WIRE	1	
W2	REX1188-1	WIRE	1	
W301	REX1189	WIRE	1	
W351	REX1187	WIRE	1	
W901	REX1198-1	WIRE	1	
W1001	RWJ9002045SS	WIRE	1	
W1002	RWJ9003100SS	WIRE	1	
W1004	REX1190	WIRE	1	
X1	J0B1075A0121	DISCRIMINATOR	1	
X2	H0A750200021	CRYSTAL OSCILLATOR	1	
X801	H2B100500007	CRYSTAL OSCILLATOR	1	
X802	H0A327200097	CRYSTAL OSCILLATOR	1	
Z801	L5ADAGD00001	FL DISPLAY	1	
Z1001	B3RAD0000075	REMOTE SENSOR	1	
1	RAE0240Z-11X	TRAVERSE ASS'Y	1	⚠
1-1	RAF0240A-8X	OPTICAL PICK-UP	1	⚠
1-2	RDG0554	GEAR 1	1	
1-3	RDG0555	GEAR 2	1	
1-4	RMQ1125	MOTOR HOLDER	1	
1-5	RMS0782-1	SHAFT	1	
1-6	RMG0648-K	FLOATING RUBBER A	1	
1-7	RMG0648-K	FLOATING RUBBER A	1	
1-8	RMG0648-K	FLOATING RUBBER A	1	
1-9	XQN17+BG45FJ	SCREW	1	
1-10	PKN7EB90A2	TRAVERSE MOTOR ASS'Y	1	
2	RHD20064-1	SCREW	1	
3	RHD20064-1	SCREW	1	
4	RHD20064-1	SCREW	1	
5	RMG0649-A	FLOATING RUBBER B	1	
6	RMG0649-A	FLOATING RUBBER B	1	
7	RMG0649-A	FLOATING RUBBER B	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
8	RMG0649-A	FLOATING RUBBER B	1	
9	RMK0600-1	CD CHASSIS	1	
10	RMN0784	SENSOR HOLDER	1	
11	RMN0785	LED HOLDER	1	
12	RMN0787	FUN LED HOLDER	1	
13	RMN0788-1	LCD HOLDER	1	
14	RMN0798	LCD SUPPORT PIECE	1	
15	RMN0801	SHEET	1	
16	RMX0281	LCD SPACER SHEET	1	
17	XTV3+8FFJ	SCREW	1	
18	XTV3+8FFJ	SCREW	1	
19	XTV3+8FFJ	SCREW	1	
20	N1ACF5000001	ROD ANTENNA	1	
21	RAL0044	DAB MODULE UNIT	1	
22	RDG0578	PULLEY GEAR	1	
23	RDG0579-1	TRANSFER GEAR	1	
24	RDG0581	GEAR B	1	
25	RDG0581	GEAR B	1	
26	REE1369	FFC	1	
27	RGK1781-S	TOP ORNAMENT	1	
28	RGK1782-S	FRONT ORNAMENT(L)	1	
29	RGK1783-S	FRONT ORNAMENT(R)	1	
30	RGN2886-K	NAME PLATE	1	
31	RGQ0389-K	CD TRAVELLER UPPER	1	
32	RGQ0390-K	CD TRAVELLER BOTTOM	1	
33	RGQ0391-K	CD TRAVELLER HOLDER(L)	1	
34	RGQ0392-K	CD TRAVELLER HOLDER(R)	1	
35	RHD26044-1	SCREW	1	
36	RHD26044-1	SCREW	1	
37	RHD26044-1	SCREW	1	
38	RHD26044-1	SCREW	1	
39	RHD26048	SCREW	1	
40	RHD26048	SCREW	1	
41	RHD26048	SCREW	1	
42	RHD26048	SCREW	1	
43	RHD26048	SCREW	1	
44	RHDW30003-1	SCREW	1	
45	RHDW30003-1	SCREW	1	
46	RHDW30003-1	SCREW	1	
47	RHN95002	NUT	1	
48	RKA0160-K	CUSHION RUBBER A	1	
49	RKA0160-K	CUSHION RUBBER A	1	
50	RKA0161-K	CUSHION RUBBER B	1	
51	RKA0161-K	CUSHION RUBBER B	1	
52	RKA0161-K	CUSHION RUBBER B	1	
53	RKA0161-K	CUSHION RUBBER B	1	
54	RKA0162-K	LEG RUBBER	1	
55	RKA0162-K	LEG RUBBER	1	
56	RKA0162-K	LEG RUBBER	1	
57	RKA0162-K	LEG RUBBER	1	
58	RKM0509A-K	FRONT CABINET	1	
59	RKS0394D-K	BACK CABINET	1	
60	RMB0789	SPRING	1	
61	RMB0789	SPRING	1	
62	RME0409-2	R. ANT TERMINAL	1	
63	RMG0268-K1	BELT	1	
64	RMM0270-1	RACK L	1	
65	RMM0271-1	RACK R	1	
66	RMN0203-J	HOLDER	1	
67	RMN0203-J	HOLDER	1	
68	RMN0795	DAB PIECE L	1	
69	RMN0796	DAB PIECE R	1	
70	RMN0797	FFC SUPPORT PIECE	1	
71	RMNX0092-K	JACK HOLDER	1	
72	RMNX0093-W	AM ANTENNA HOLDER	1	
73	RMQ1304	GEAR HOLDER (L)	1	
74	RMQ1305	GEAR HOLDER(R)	1	
75	RMQ1306	GEAR FIXTURE A	1	
76	RMQ1307-1	GEAR HOLDER	1	
77	RFKNAEN7PC-S	GEAR A ASS'Y	1	
78	RFKPLPD667PB	MOTOR ASS'Y	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
80	RQLXS0053	LASER CAUTION LABEL	1	
81	RQT4389ZAA	CLASS1 LABEL	1	
82	RSC0732	EARTH PLATE	1	
83	RSC0733	TUNER SHIELD	1	
84	RYK1373-S	OP BTN CHASSIS UNIT	1	
85	RYQ0490-S	CD OP/CL BTN UNIT	1	
86	RYQ0491C-S	CD LID A UNIT	1	
87	RYQ0492C-S	CD LID B UNIT	1	
88	RYQ0493C-S	LCD PANEL UNIT	1	
89	XTBS26+10GFJ	SCREW	1	
90	XTBS26+10GFJ	SCREW	1	
91	XTBS26+10GFJ	SCREW	1	
92	XTBS26+10GFJ	SCREW	1	
93	XTBS26+10GFJ	SCREW	1	
94	XTBS26+10GFJ	SCREW	1	
95	XTBS26+10GFJ	SCREW	1	
96	XTBS26+10GFJ	SCREW	1	
97	XTBS26+10GFJ	SCREW	1	
98	XTBS26+10GFJ	SCREW	1	
99	XTBS26+10GFJ	SCREW	1	
100	XTBS26+10GFJ	SCREW	1	
101	XTBS26+10GFJ	SCREW	1	
102	XTBS26+10GFJ	SCREW	1	
103	XTBS26+10GFJ	SCREW	1	
104	XTBS26+10GFJ	SCREW	1	
105	XTBS26+10GFJ	SCREW	1	
106	XTBS26+10GFJ	SCREW	1	
107	XTBS26+10GFJ	SCREW	1	
108	XTBS26+10GFJ	SCREW	1	
109	XTBS26+10GFJ	SCREW	1	
110	XTBS26+10GFJ	SCREW	1	
111	XTBS26+10GFJ	SCREW	1	
112	XTBS26+10GFJ	SCREW	1	
113	XTBS26+10GFJ	SCREW	1	
114	XTBS26+10GFJ	SCREW	1	
115	XTBS26+10GFJ	SCREW	1	
116	XTBS26+10GFJ	SCREW	1	
117	XTBS26+10GFJ	SCREW	1	
118	XTBS26+10GFJ	SCREW	1	
119	XTBS26+10GFJ	SCREW	1	
120	XTBS26+10GFJ	SCREW	1	
121	XTBS26+10GFJ	SCREW	1	
122	XTBS26+10GFJ	SCREW	1	
123	XTBS26+10GFJ	SCREW	1	
124	XTBS26+10GFJ	SCREW	1	
125	XTBS26+10GFJ	SCREW	1	
126	XTBS26+10GFJ	SCREW	1	
127	XTBS26+10GFJ	SCREW	1	
128	XTBS26+10GFJ	SCREW	1	
129	XTN2+6JFJ	SCREW	1	
130	XTN2+6JFJ	SCREW	1	
131	XTV3+12GFJ	SCREW	1	
132	XTV3+12GFJ	SCREW	1	
133	XTV3+20GFJ	SCREW	1	
134	XTV3+20GFJ	SCREW	1	
135	XTV3+20GFJ	SCREW	1	
136	XTV3+20GFJ	SCREW	1	
137	XTV3+20GFJ	SCREW	1	
138	XTV3+20GFJ	SCREW	1	
139	XTV3+20GFJ	SCREW	1	
140	XTV3+20GFJ	SCREW	1	
141	XYN26+C6FJ	SCREW	1	
142	XYN26+C6FJ	SCREW	1	
143	XYN3+F12FJ	R.ANT SCREW	1	
144	XTBS26+10GFJ	SCREW	1	
PCB1	REP3703B	CD SERVO PCB ASS'Y	1	(RTL)
PCB2	REP3749B	MAIN PCB ASS'Y	1	(RTL)
S1	K0L1BB000025	SW,REST DET.	1	

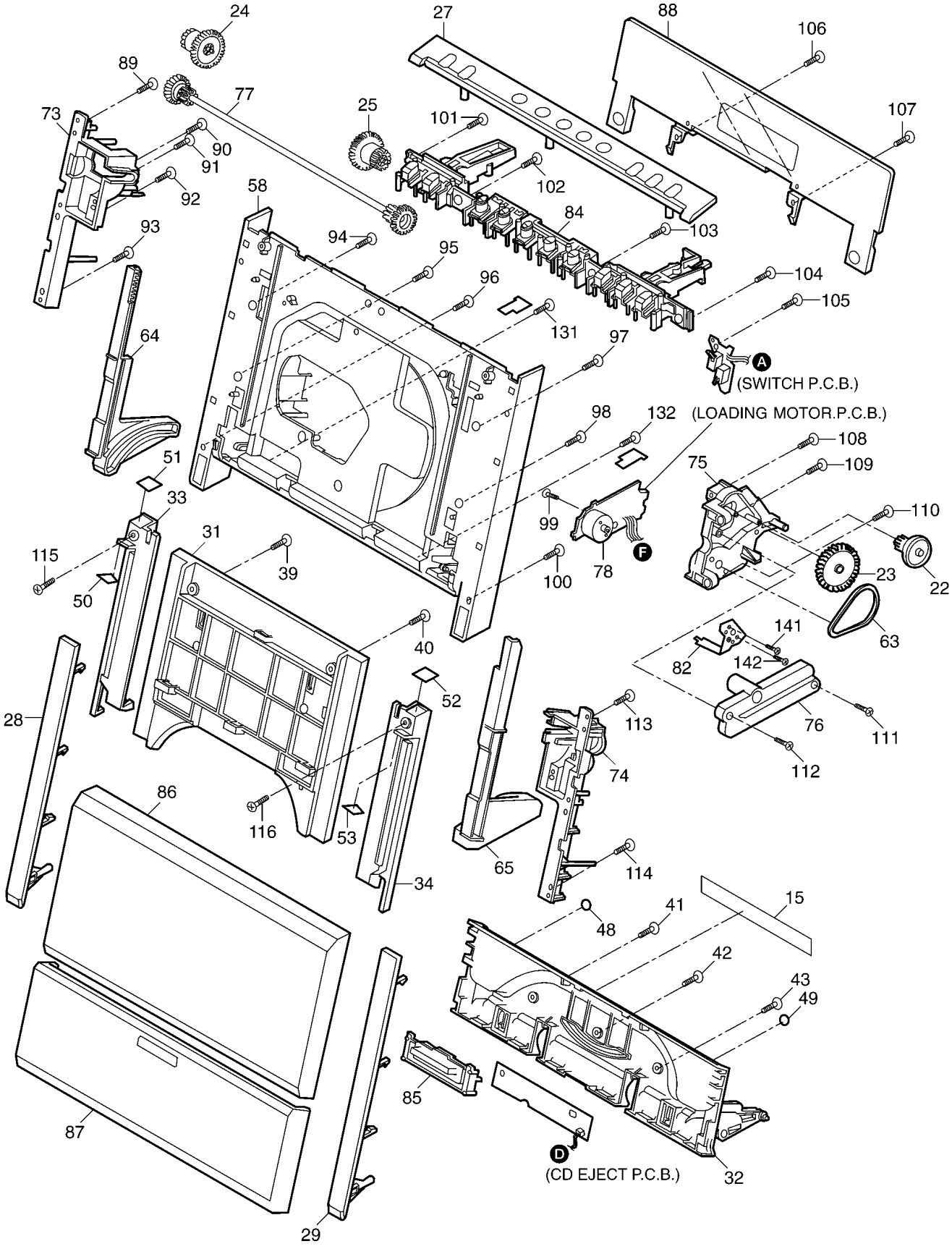
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A1	EUR7711130W	REMOTE CONTROL	1	
A1-1	UR64EC2337J	REMOCON BATT.COVER	1	
A2	RFAW2646	AC ADAPTOR UNIT	1	
A3	RQT8538-1B	O/I BOOK	1	English
A4	G0ZZ00002036	AM LOOP ANTENNA	1	
A5	N1EADY000001	DAB ANT	1	
A6	RQCA1229	SHEET	1	
P1	RPG7898	PACKING CASE	1	
P2	RPN1680	CUSHION,UNIT	1	
P3	RPN1681	CUSHION,SPEAKER	1	
P4	RPFW0009	MIRAMAT SHEET	1	
P5	RPFW0009	MIRAMAT SHEET	1	
P6	RPFW0010	MIRAMAT SHEET,UNIT	1	

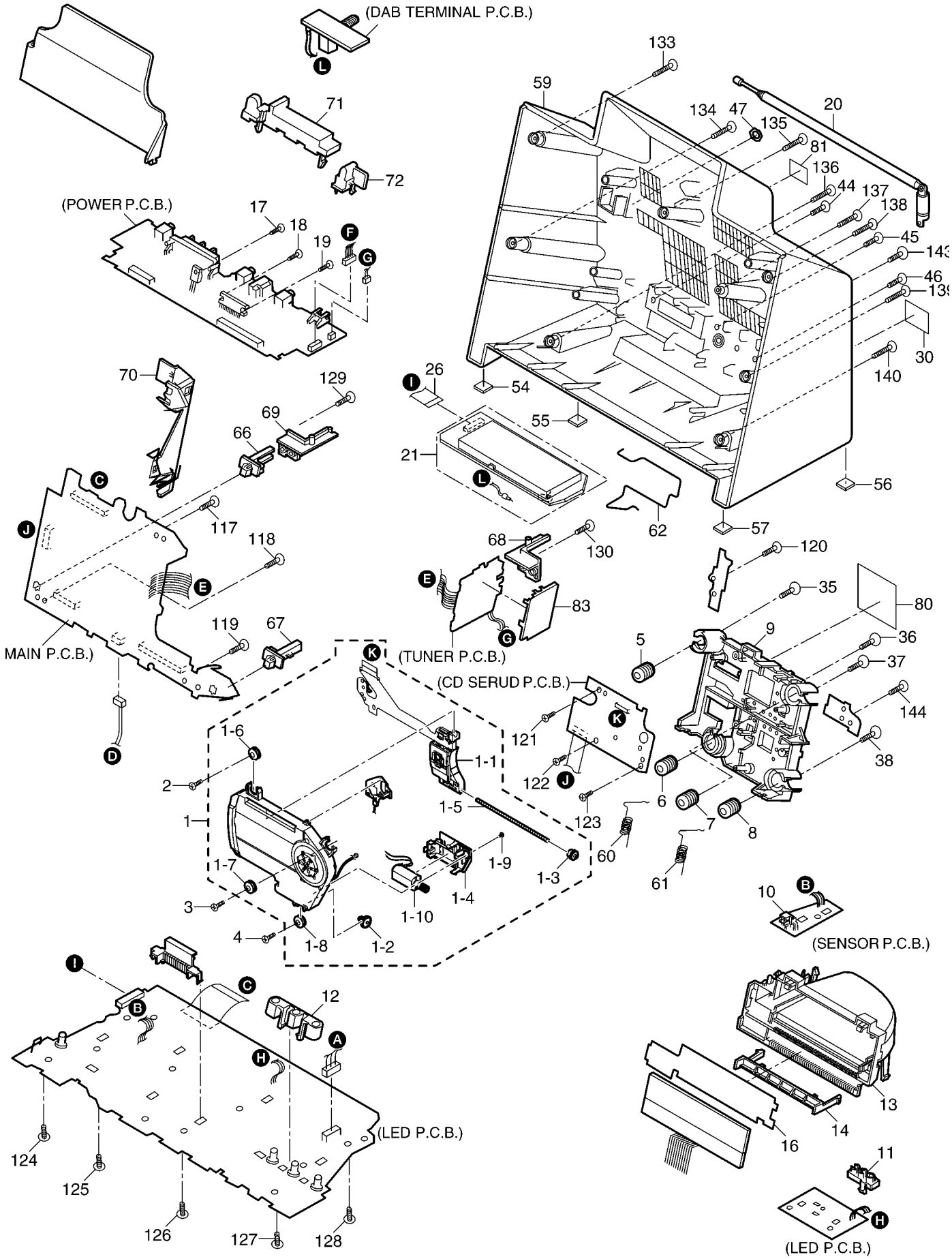
18.2. SB-EN7

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
200	L0AA08A00013	SPEAKER	1	
201	RFKGBEN7PC-S	SP FRONT CAB ASS'Y	1	
201-1	RMGW0001-H1	NET CATCH GUM	1	
201-2	RMGW0001-H1	NET CATCH GUM	1	
201-3	RMGW0001-H1	NET CATCH GUM	1	
201-4	RMGW0001-H1	NET CATCH GUM	1	
202	RFKHBEN7PC-S	SP BACK CAB ASS'Y	1	
202-1	RKAX0011-K	LEG FELT	1	
202-2	RKAX0011-K	LEG FELT	1	
202-3	RKAX0011-K	LEG FELT	1	
202-4	RKAX0011-K	LEG FELT	1	
203	RYB0318	SPEAKER NET FRAME ASS'Y	1	
204	XTV3+12GFJ	SCREW	1	
205	XTV3+12GFJ	SCREW	1	
206	XTV3+12GFJ	SCREW	1	
207	XTV3+12GFJ	SCREW	1	
208	XTV3+12GFJ	SCREW	1	
209	XTV3+12GFJ	SCREW	1	
210	XTV3+12GFJ	SCREW	1	
211	XTV3+12GFJ	SCREW	1	
212	XTV3+12GFJ	SCREW	1	
213	XTV3+12GFJ	SCREW	1	

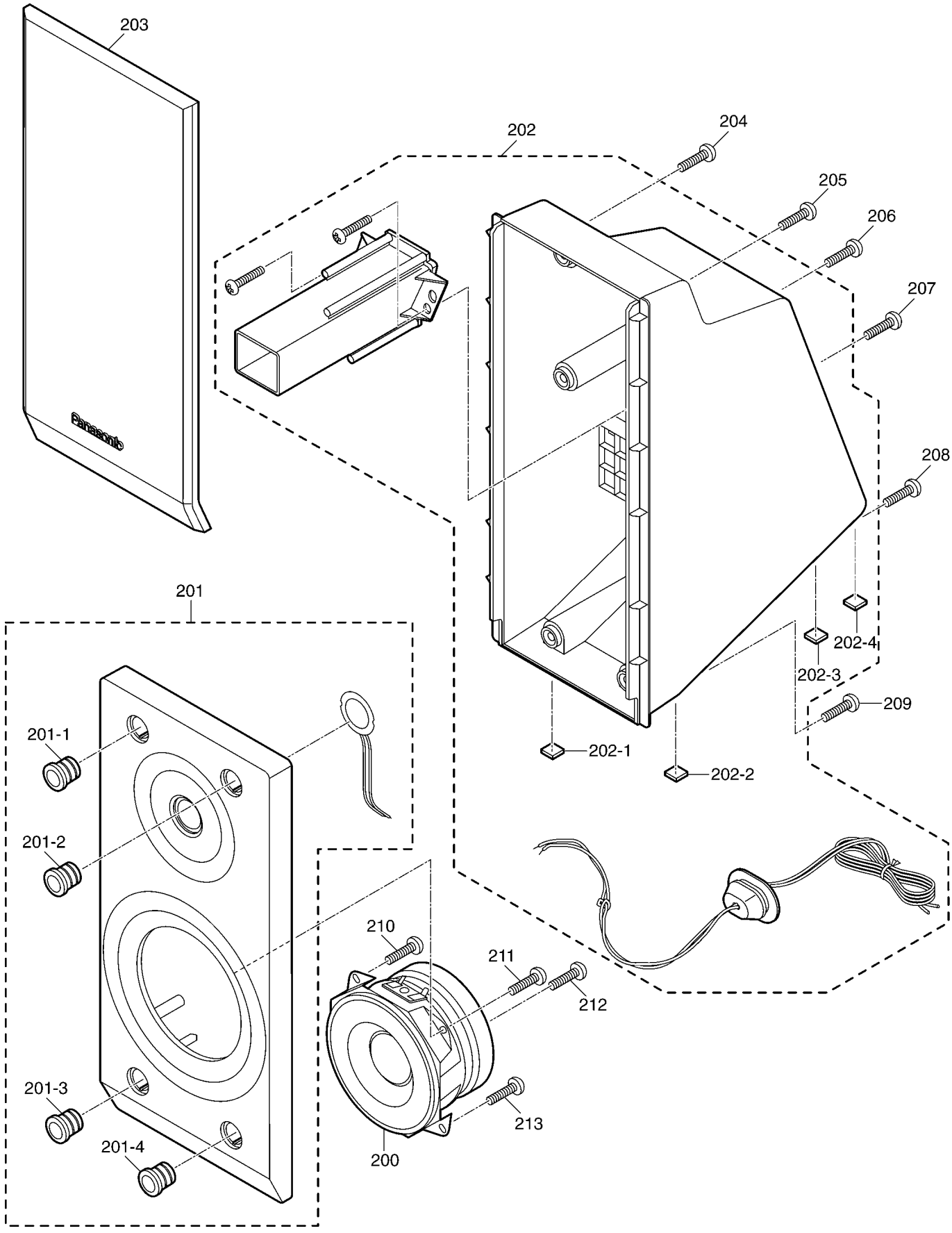
19 Cabinet Parts Location

19.1. SA-EN29




(DAB TERMINAL P.C.B.)
(POWER P.C.B.)
(TUNER P.C.B.)
(CD SERUD P.C.B.)
MAIN P.C.B.)
(SENSOR P.C.B.)
(LED P.C.B.)
(LED P.C.B.)

19.2. SB-EN7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