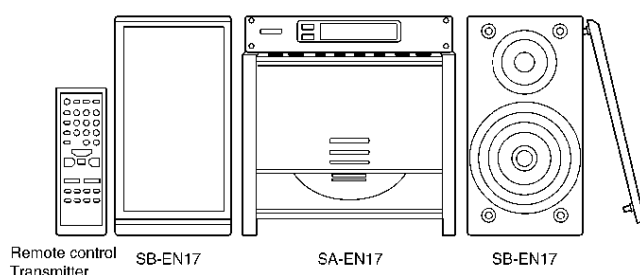


Service Manual

CD Stereo System



SC-EN17E
SC-EN17EB
SC-EN17EG
SC-EN17GCS
SC-EN17GD

Colour

S.....Silver Type

System

ISC-EN17E/EB/EG/GD

Main Unit: SA-EN17E/EB/EG/GD

Speakers: SB-EN17P

ISC-EN17GCS

Main Unit: SA-EN17GCS

Speakers: SB-EN17GCS

Specifications

MAIN UNIT

nRADIO

Frequency range:

FM; 87.5 - 108.0 MHz (50kHz steps)

(For E,EB,EG areas)

AM; 522 - 1629 kHz (9kHz steps)

(For GCS,GD areas)

AM; 522 - 1629 kHz (9kHz steps)
520 - 1630 kHz (10kHz steps)

Intermediate Frequency:

FM; 10.7MHz

(For E,EB,EG areas)

AM; 459kHz

(For GCS,GD areas)

AM; 450kHz

Sensitivity:

FM; 3.98μV/50mW output (-3dB limit sens.)

AM; 178μV/m/50mW output (Max sens.)

nCD PLAYER

Sampling frequency: 44.1kHz

Decoding: 16 bit linear

Beam source: Semiconductor laser (wavelength 780nm)

Number of channels: 2 channel, stereo

Wow and flutter: Less than possible measurement data

DA converter: MASH(1 bit DAC)

nTerminals

Input: AUX; 3.5mm stereo (27kΩ)

Output: PHONES: 3.5mm stereo (32Ω)

nGENERAL

(For E,EB,EG areas)

Power supply: AC230V - 240V, 50Hz

(For GCS area)

Power supply: AC220V - 240V, 50/60Hz

Panasonic

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(For GD area)

Power supply: AC220V, 60Hz

(For E,EB,EG,GD areas)

Power consumption: 28W

(For GCS area)

Power consumption: 22W

Dimensions (W×H×D): 206×204×214mm

Mass: 4.0kg with speakers
2.4kg without speakers**nSPEAKERS**

(For E,EB,EG,GD areas)

Full range: 8cm, 6Ω×2

(For GCS area)

Full range: 8cm, 12Ω×2

Ceramic tweeter: 1.52cm ×2

Dimensions (W×H×D): 115mm×211mm×215mm

Power consumption in standby mode: 3.1W

Note:

Specifications are subject to change without notice.

Mass and dimensions are approximate.

⚠ 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 Accessories

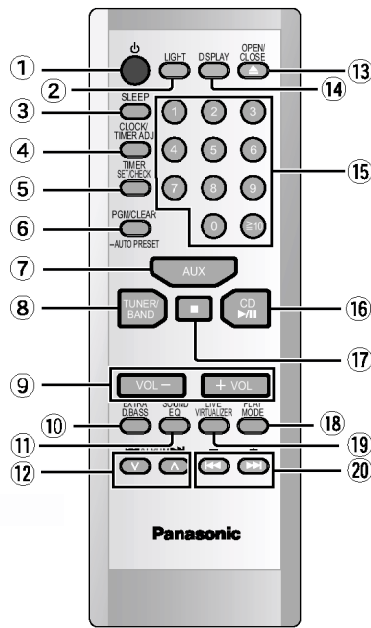
· Remote control (EUR7711170).....1pc.

· Ac power supply cord (RJA0065-1D).....1pc.

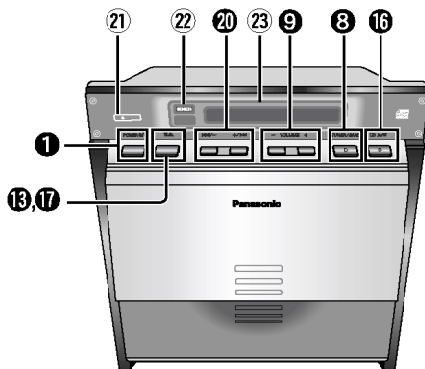
· Batteries

· AM loop antenna (G0ZZ00002036).....1pc.

2 Location of Control



The shaded buttons, such as ①, function in the same way as the buttons on the remote control.



- ① Standby/on switch [⏻, POWER ⏻/⏻]
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.
- ② Light button [LIGHT]
Turn on and off the light of display for better viewing in a darkened room.
The factory setting is ON.
- ③ SLEEP timer button [SLEEP]
- ④ Clock/timer adjust button [CLOCK/TIMER ADJ]
- ⑤ Timer set/check button [TIMER SET/CHECK]
- ⑥ CD program/clear, tuner preset button
[PGM/CLEAR, -AUTO PRESET]
- ⑦ AUX button [AUX]
- ⑧ Tuner/band select button [TUNER/BAND]
- ⑨ Volume buttons [VOL -, + VOL, - VOLUME +]
- ⑩ Extra D.Bass button [EXTRA D.BASS]
- ⑪ Sound EQ button [SOUND EQ]
- ⑫ **SC-EN17** Album skip, preset channel select buttons
[V, ^, ◀◀ ALBUM ▶▶]
- ⑬ CD open/close button [▲, OPEN/CLOSE]
- ⑭ Display button [DISPLAY]
- ⑮ Numbered buttons [1-9, 0, ≥10]
- ⑯ CD play/pause button [▶/|| CD]
- ⑰ CD stop button [■]
- ⑱ Play mode button [PLAY MODE]
- ⑲ Live virtualizer button [LIVE VIRTUALIZER]
- ⑳ CD skip/search, frequency select, time adjust buttons
[◀◀, ▶▶, -, +, ◀◀/-, +/▶▶]
- ㉑ Standby indicator
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
- ㉒ Remote control signal sensor
- ㉓ Display

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

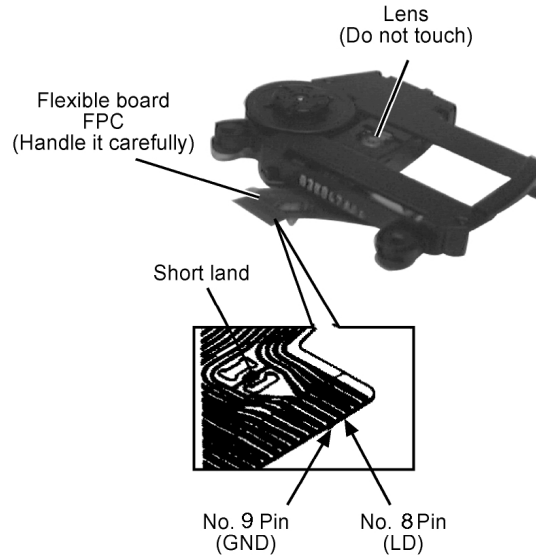
Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is place, and ground the sheet.

Caution:

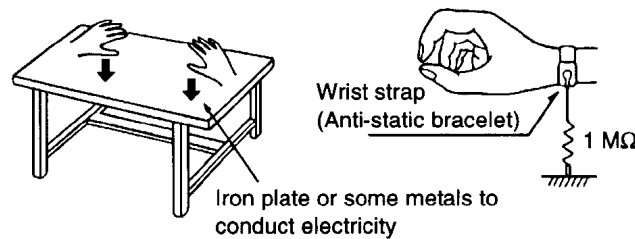
The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).

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.



(Fig.1)



(Fig.2)

4 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 μ W/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 μ W/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 Lasereinheit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlinse blicken.
4. Nicht über längere Zeit in die Fokussierlinse blicken.

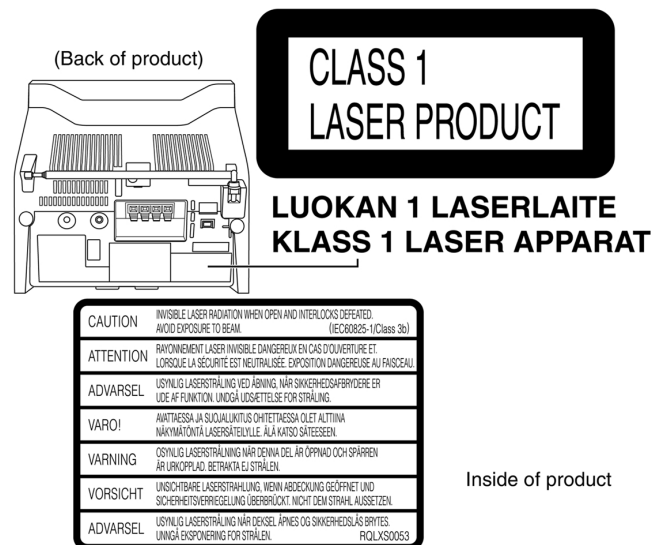
ADVARSEL: I dette a apparat anvendes laser.

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



5 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.

6 Caution for AC Mains Lead

(For United Kingdom)

("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 OF 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

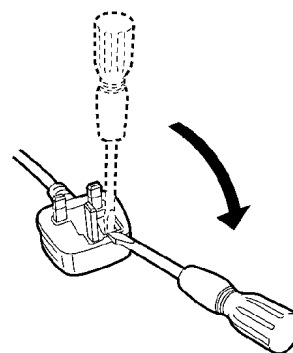
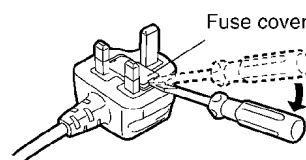


Figure B



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

Figure A

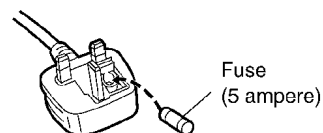
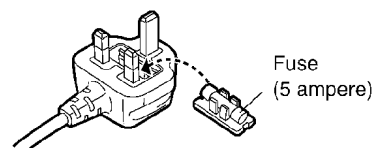


Figure B



7 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 reasons 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 aluminum 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, aluminum 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).

8 Handling the Lead-free Solder

8.1. 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.

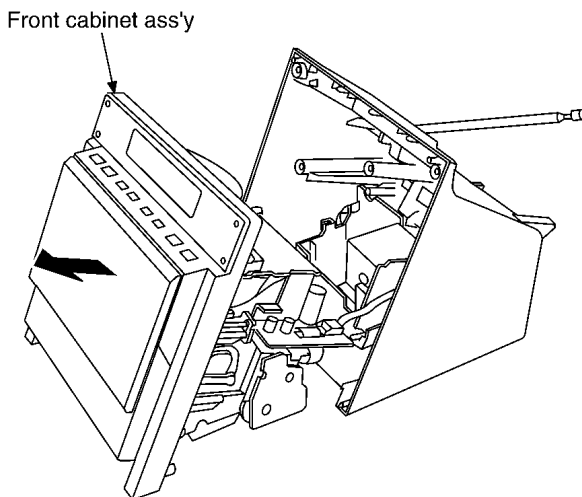
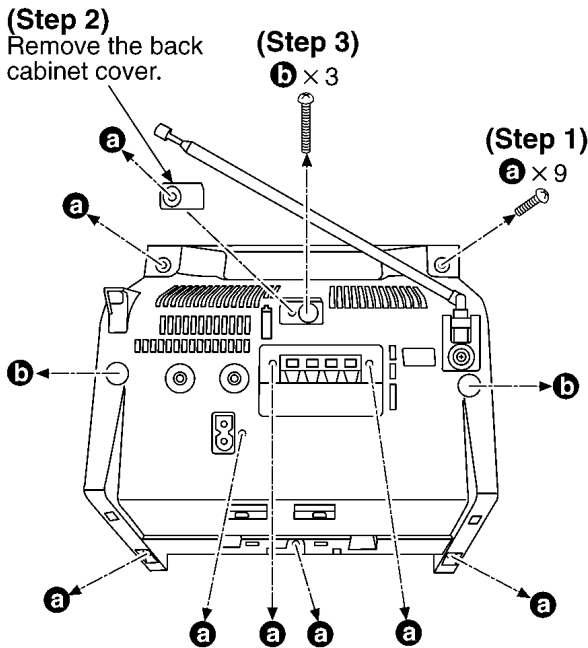
Caution

- 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 tend 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.

9 Operation Checks and Component Replacement

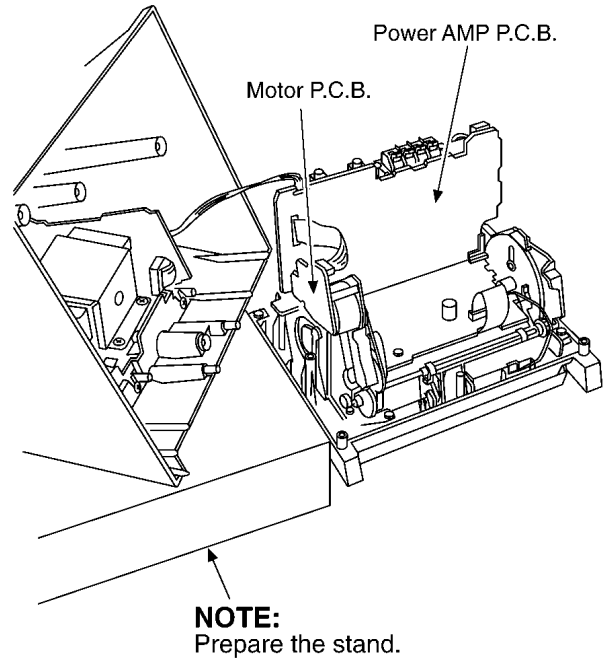
- This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
- For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.

9.1. Checking for the motor P.C.B., main P.C.B., power AMP P.C.B., LCD P.C.B., CD servo P.C.B. and tuner P.C.B.



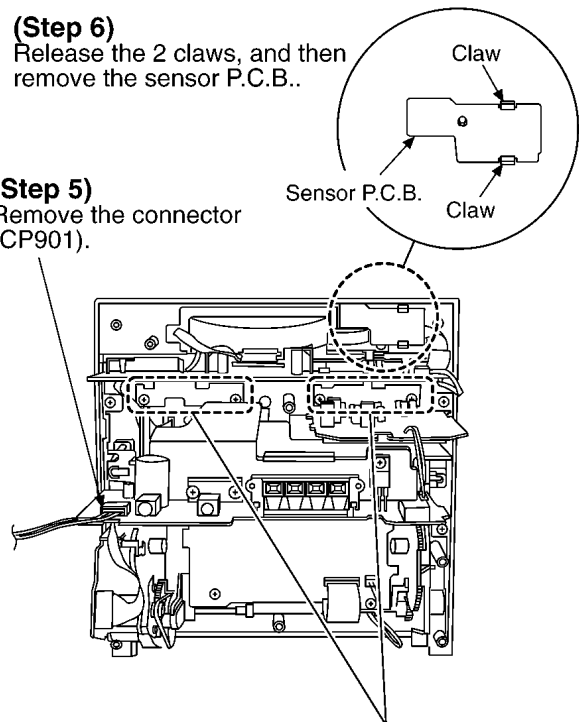
(Step 4)
Pull out the front cabinet ass'y.

- Check the motor P.C.B. and power AMP P.C.B. as shown below.

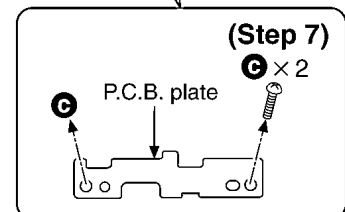


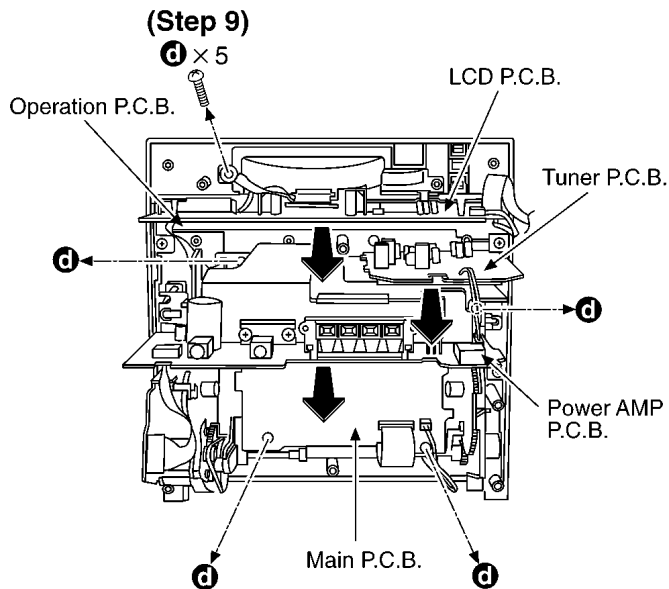
(Step 6)
Release the 2 claws, and then remove the sensor P.C.B..

(Step 5)
Remove the connector (CP901).



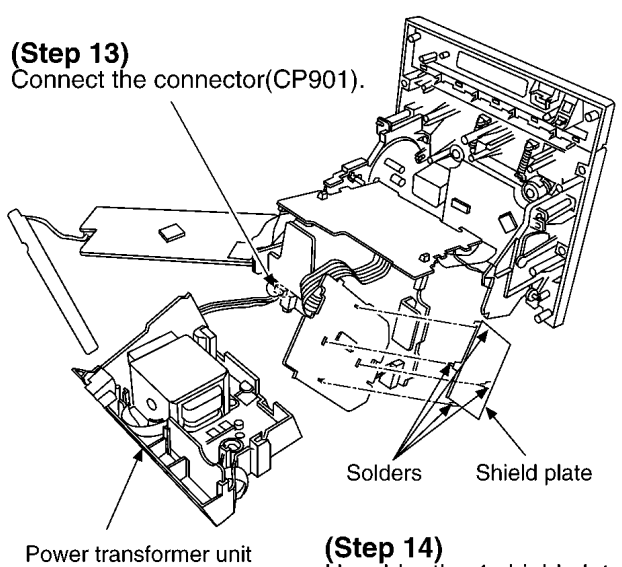
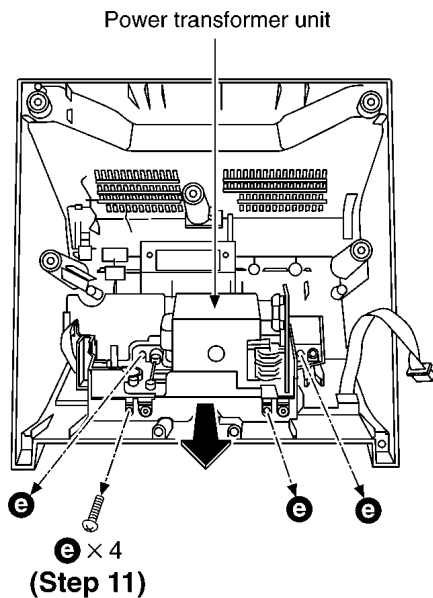
(Step 8)
Remove the P.C.B. plate.



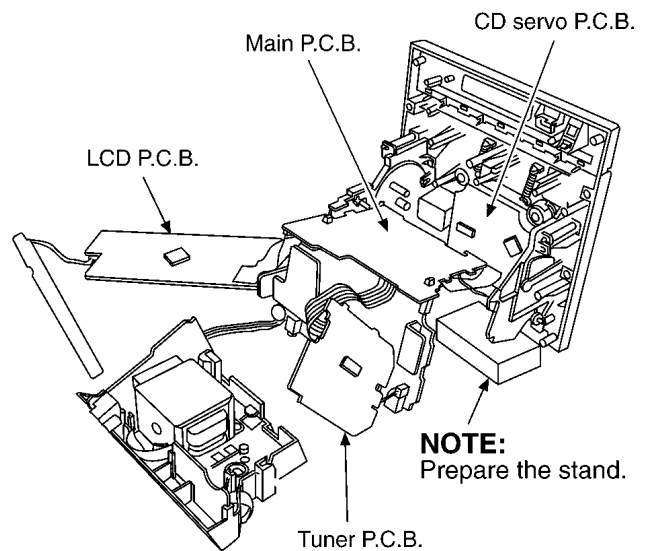


(Step 10)
 Pull out the LCD P.C.B., operation P.C.B., tuner P.C.B., power AMP P.C.B. and main P.C.B..

(Step 12)
 Pull out the power transformer unit.

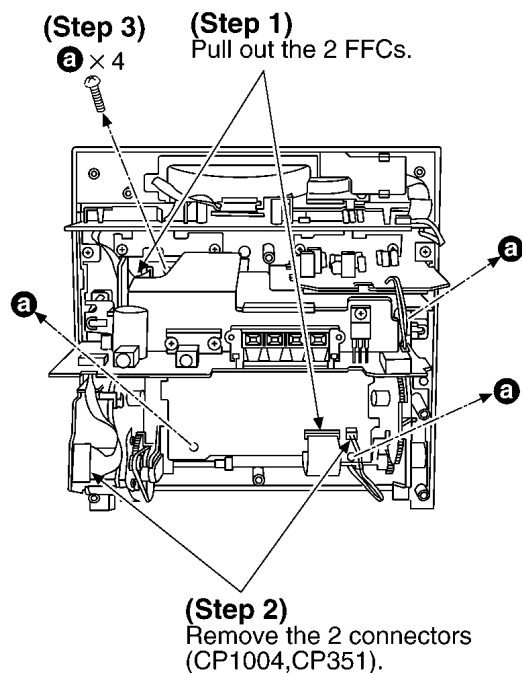


(Step 14)
 Unsolder the 4 shield plate terminals.

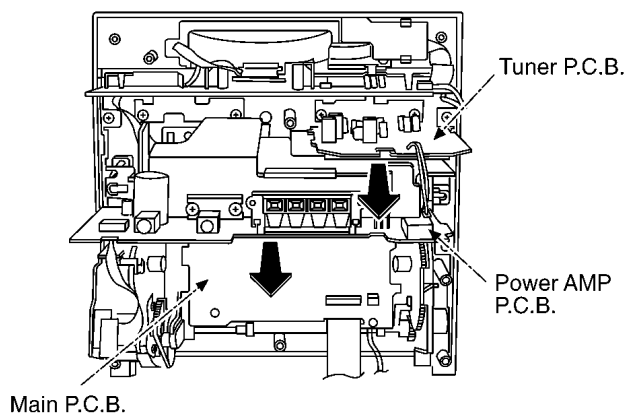


9.2. Replacement for the traverse deck ass'y

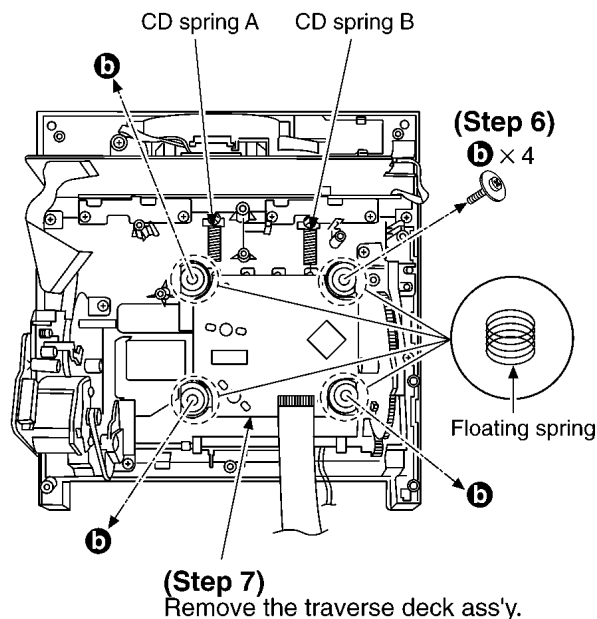
• Follow the (Step 1) - (Step 5) of Item 9.1.



(Step 4)
Pull out the tuner P.C.B., power AMP P.C.B. and main P.C.B..



(Step 5)
Remove the CD spring A and CD spring B.

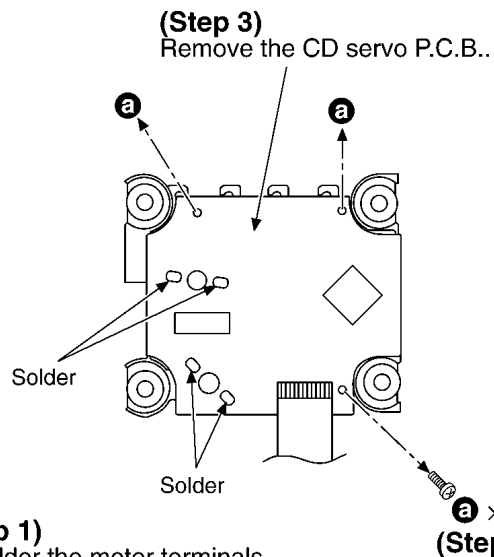


NOTE:

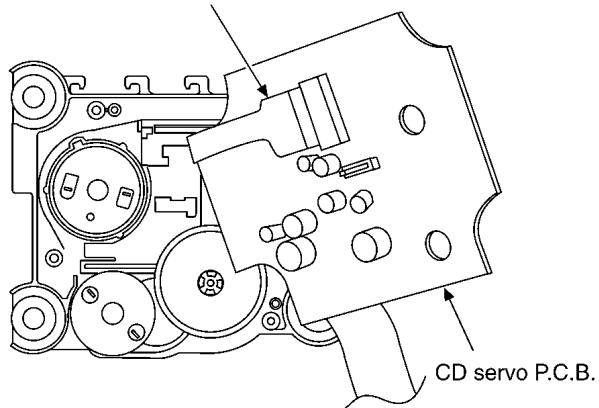
Be careful not to lose the 3 floating springs because those will also be removed on removal of the traverse deck ass'y.

9.3. Replacement for the CD loading motor and optical pick-up

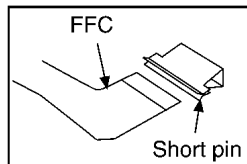
- Follow the (Step 1) - (Step 5) of item 9.1.
- Follow the (Step 1) - (Step 7) of item 9.2.



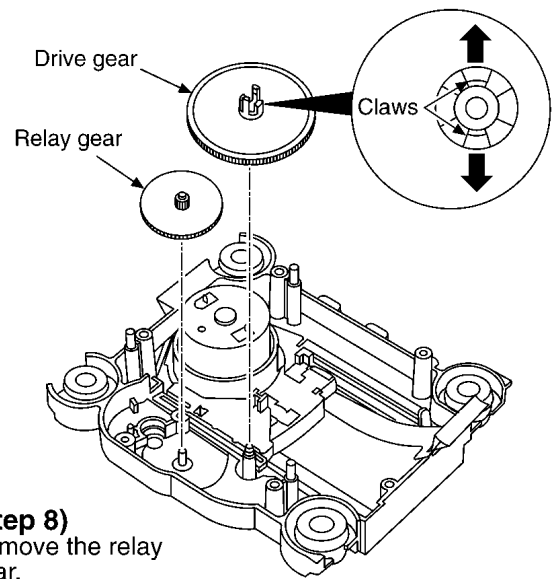
(Step 4)
Pull out the FFC.



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

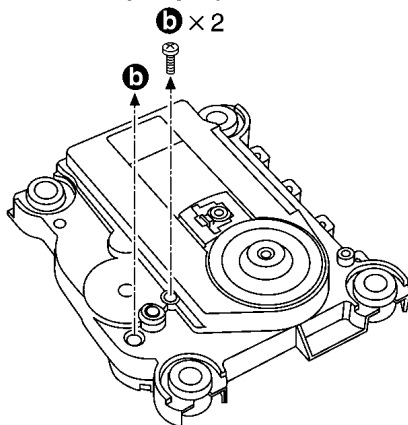


(Step 7)
Release the 2 claws, and then remove the drive gear.

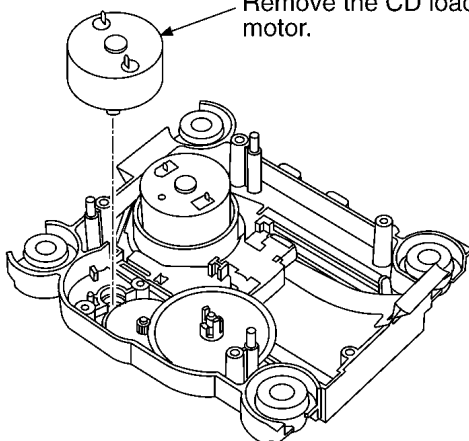


(Step 8)
Remove the relay gear.

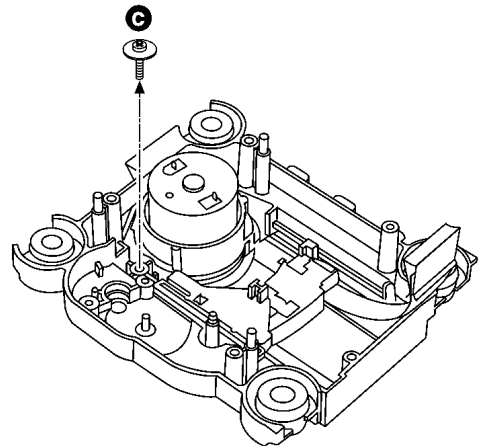
(Step 5)



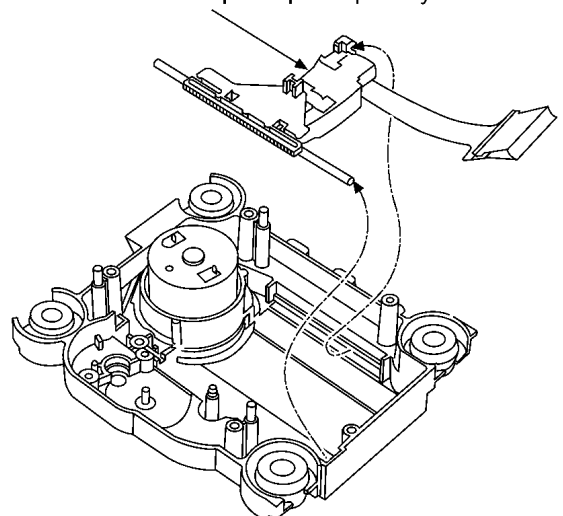
(Step 6)
Remove the CD loading motor.



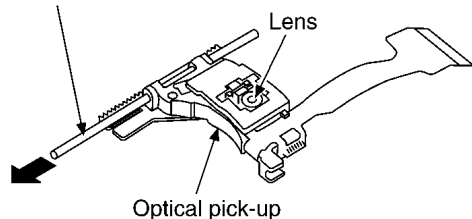
(Step 9)



(Step 10)
Remove the optical pick-up ass'y.



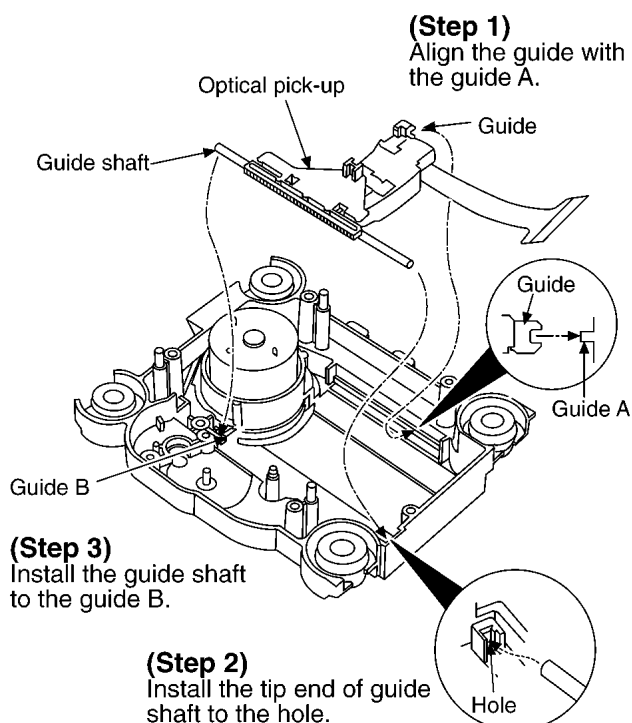
(Step 10)
Remove the guide shaft.



NOTE:

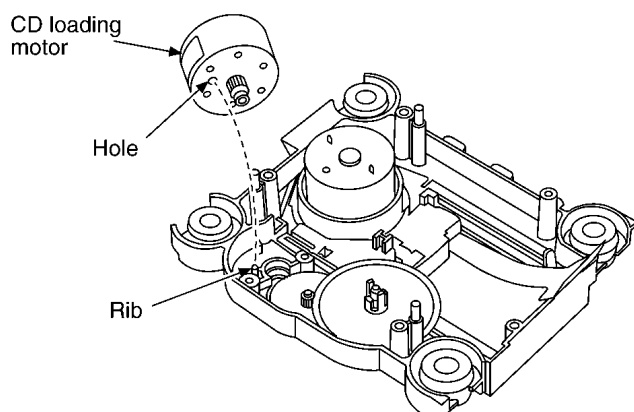
1. Use care to prevent damage the optical pick-up, due to the precision construction.
2. Do not apply the grease on the lens of optical pick-up.
3. Do not touch the lens of the optical pick-up.

Installing the optical pick-up



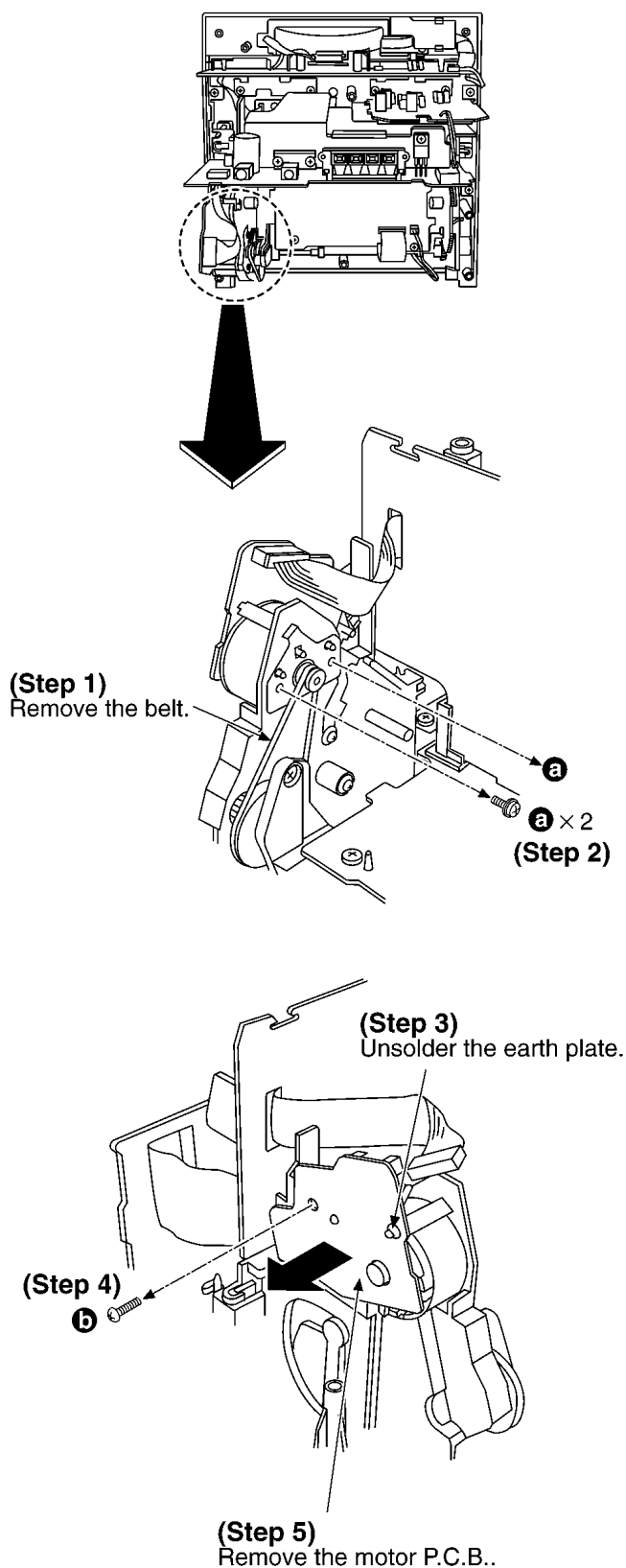
Notice for CD loading motor installation

- Align the hole of CD loading motor with the ribs.

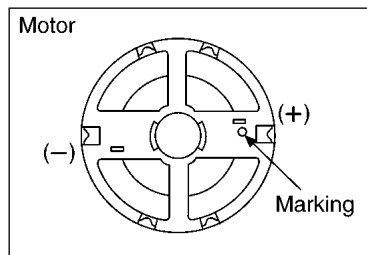
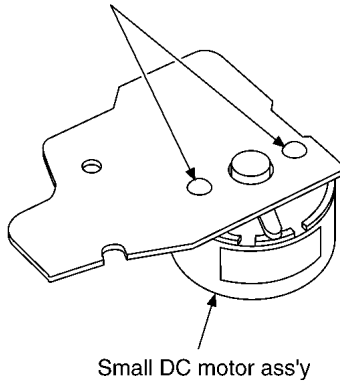


9.4. Replacement for the small DC motor ass'y

- Follow the (Step 1) - (Step 5) of item 9.1.

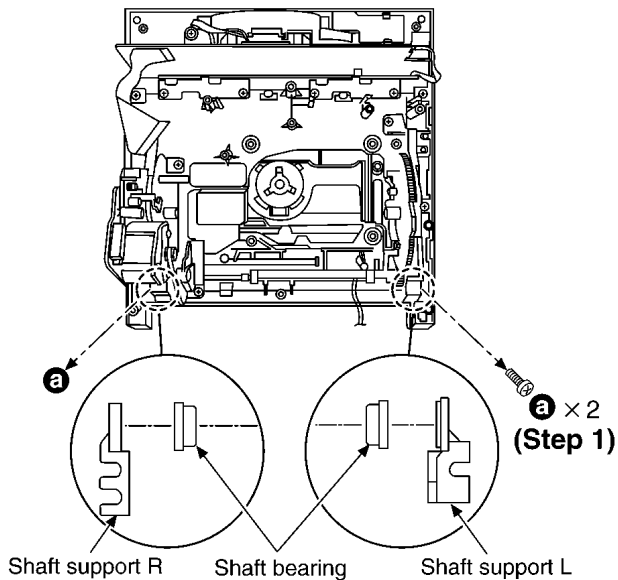


(Step 6)
Unsolder the motor terminals (2 points).

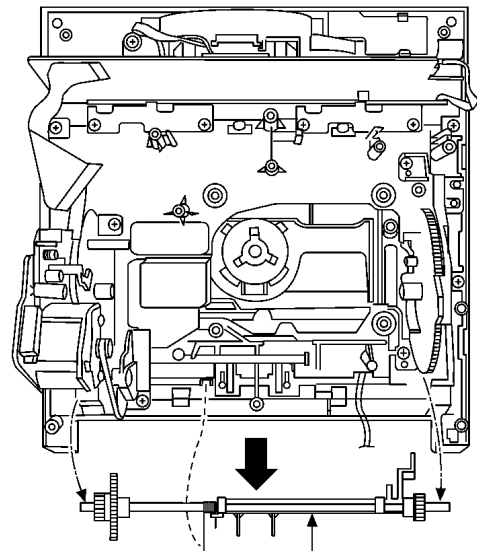


9.5. Replacement for the gear chassis R ass'y and gear chassis L ass'y

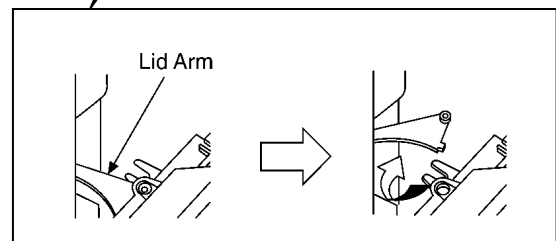
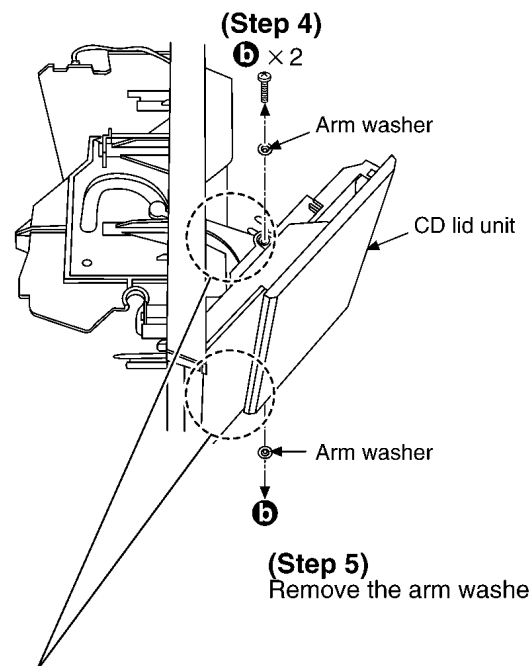
- Follow the (Step 1) - (Step 5) of item 9.1.
- Follow the (Step 1) - (Step 7) of item 9.2.



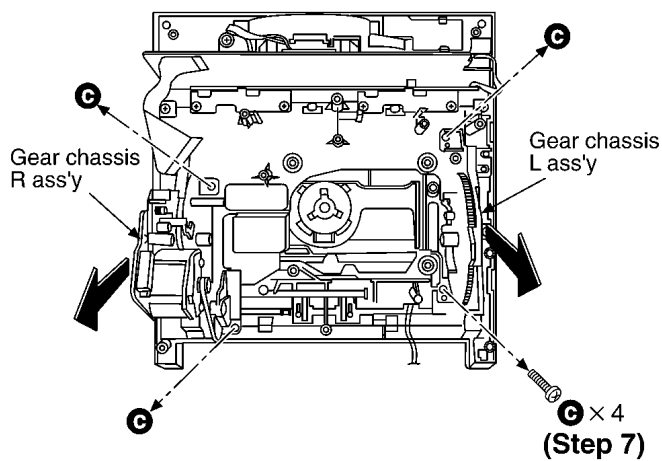
(Step 2)
Remove the shaft support R, shaft support L and 2 shaft bearings.



(Step 3)
Remove the shaft ass'y.



(Step 6)
Remove the lid arm in the direction of arrow.

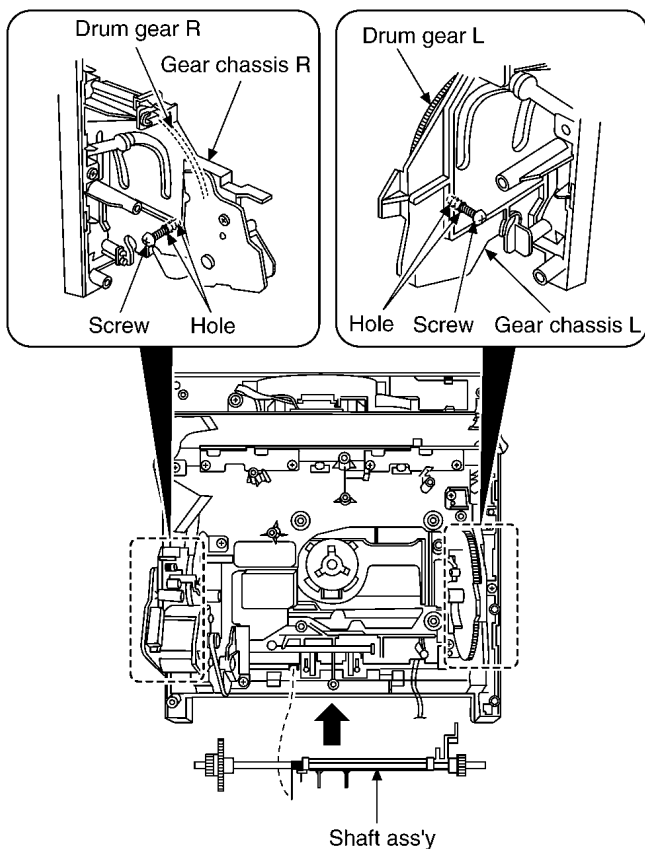
**(Step 8)**

Remove the gear chassis R ass'y and gear chassis L ass'y.

Installing the shaft ass'y

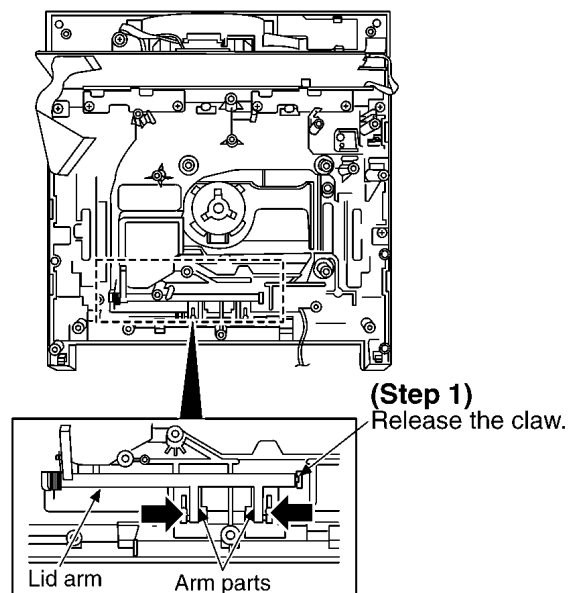
- When installing the shaft ass'y, align the holes of drum gear and gear chassis, then lightly tighten to fix the gear rotation by using the screw.

(Use back cabinet installation screw (XTV3+20GFJ)).

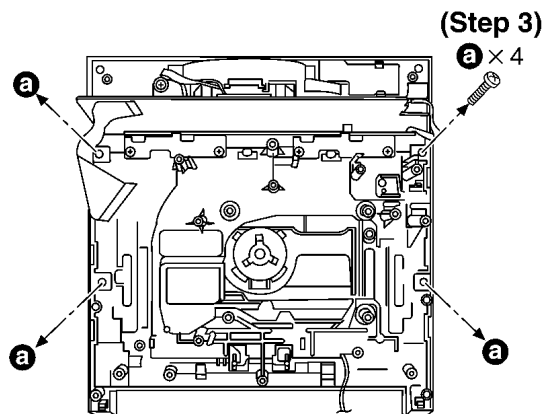


9.6. Replacement for the CD lid unit

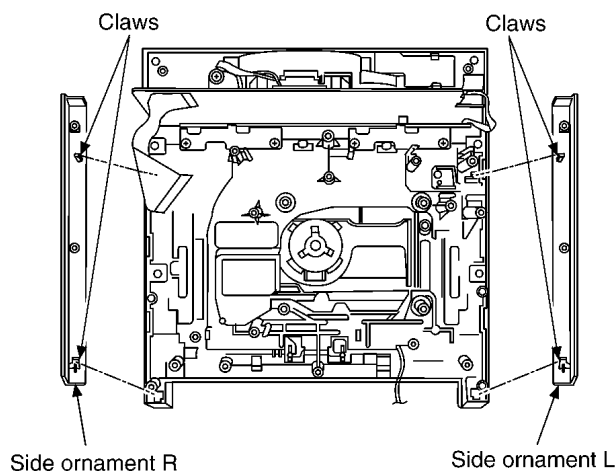
- Follow the (Step 1) - (Step 5) of item 9.1.
- Follow the (Step 1) - (Step 7) of item 9.2.
- Follow the (Step 1) - (Step 8) of item 9.5.

**(Step 2)**

Remove the arm parts of lid arm (2 parts) while pressing in the direction of the arrow.

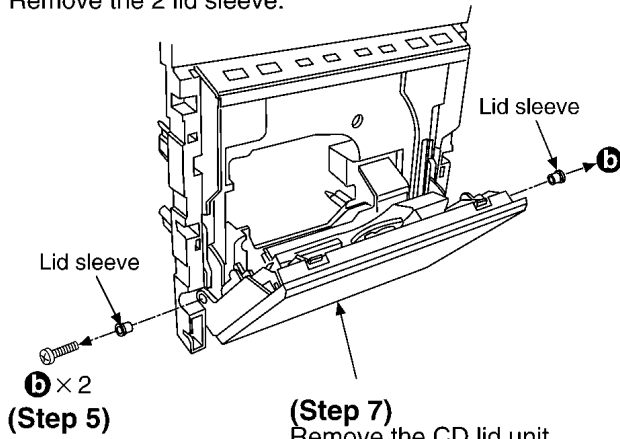
**(Step 4)**

Release the 4 claws, and then remove the side ornament R and side ornament L.



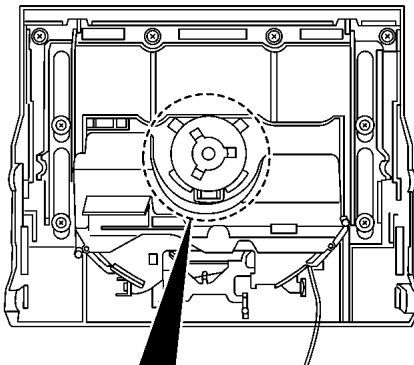
(Step 6)

Remove the 2 lid sleeve.

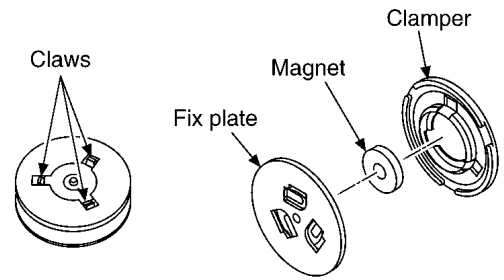
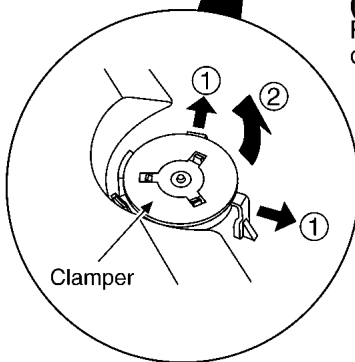


9.7. Replacement for the clamber, magnet and fix plate

- Follow the (Step 1) - (Step 5) of item 9.1.
- Follow the (Step 1) - (Step 7) of item 9.2.
- Follow the (Step 1) - (Step 8) of item 9.5.
- Follow the (Step 1) - (Step 7) of item 9.6.

**(Step 1)**

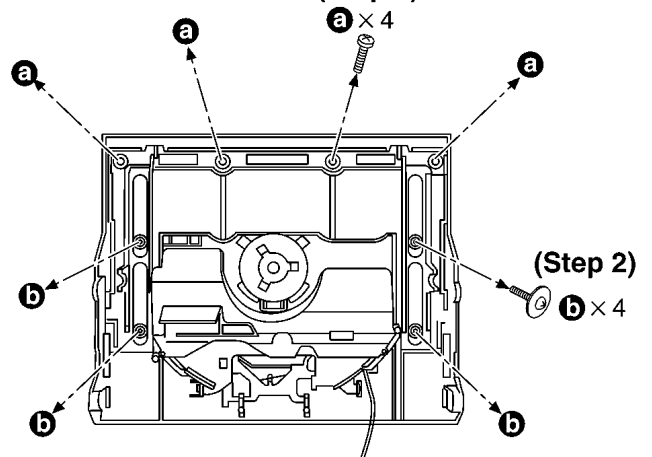
Remove the clamber in the direction of arrow ①, ②.

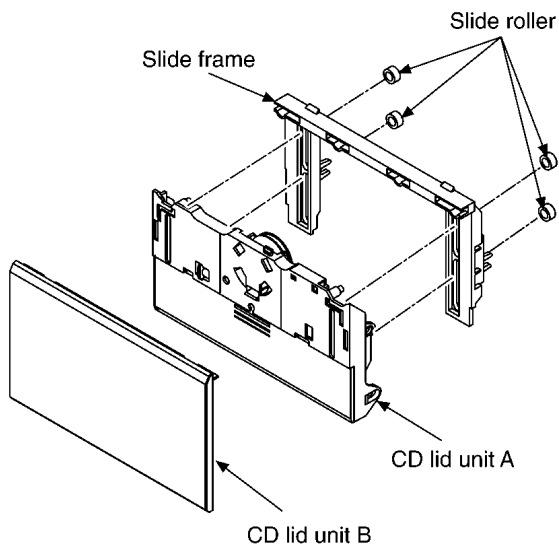
**(Step 2)**

Release the 3 claws, and then remove the clamber, magnet and fix plate.

9.8. Replacement for the CD lid unit A, CD lid unit B and slide frame

- Follow the (Step 1) - (Step 5) of item 9.1.
- Follow the (Step 1) - (Step 7) of item 9.2.
- Follow the (Step 1) - (Step 8) of item 9.5.
- Follow the (Step 1) - (Step 7) of item 9.6.

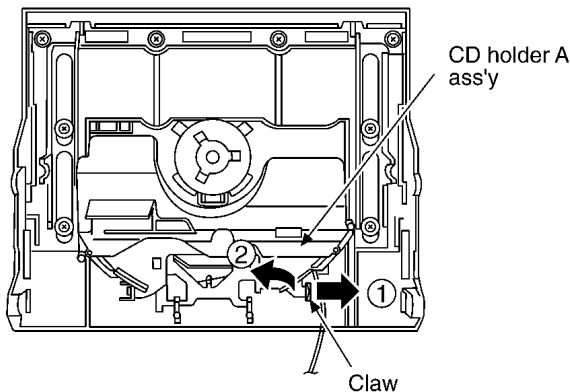
(Step 1)



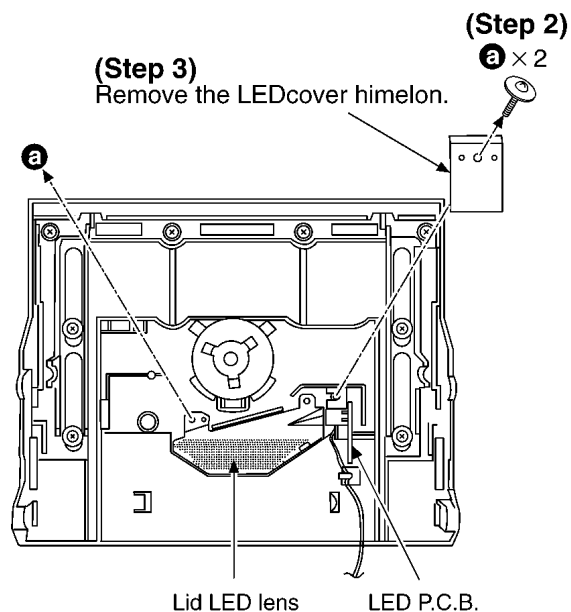
(Step 3)
Remove the CD lid unit A, CD lid unit B, slide roller and slide frame.

9.9. Replacement for the lid LED lens, LED P.C.B., CD holder A unit, CD holder A and lift plate

- Follow the (Step 1) - (Step 5) of item 9.1.
- Follow the (Step 1) - (Step 7) of item 9.2.
- Follow the (Step 1) - (Step 8) of item 9.5.
- Follow the (Step 1) - (Step 7) of item 9.6.

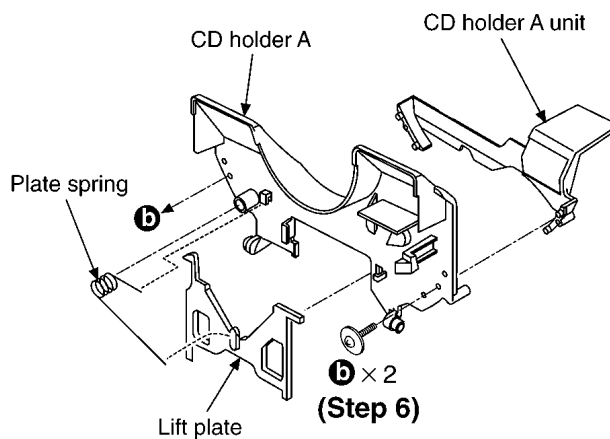


(Step 1)
Release the claw in the direction of arrow ①, and then remove the CD holder A ass'y.



(Step 4)
Remove the lid LED lens and LED P.C.B..

(Step 5)
Remove the lift plate and plate spring.



(Step 7)
Remove the CD holder A unit.

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 **VOL+** key, followed by **+ / ►►** key for more than 2 seconds.
2. LCD will show the following display as below:



(LCD Display)

3. Error during Test:

- Press & hold **■ / ▲** key (> 2sec) will show blinking error code. If abnormality occurs during test, error code will be displayed.
- Example:



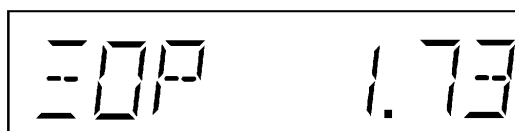
NOTE: Refer to error code table 11.1.

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 REMORT CONTROL **[2]** 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 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 65535).
 - <OPEN>:



– <CLOSE>:



3. CD unit (250Z) and CD lid reliability test mode (Combination)

- Press & hold REMOTE CONTROL **≥10 →1→0**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: CD lid OPEN→Wait for 1sec. open state→CD lid CLOSE→TOC read → Play all tracks → Increment counter (Repeat the whole process).

10.1.3. Exiting from self-diagnostic mode

1. Press the POWER ON/OFF button either 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.

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 memorised.
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 Schematic Diagram

12.1. Schematic Diagram Notes

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

Notes:

S351:	CD TOP DETECTION Switch in "OFF" position.
S352:	CD BOTTOM DETECTION Switch in "OFF" position.
S700:	REST Switch in "OFF" position.
S801:	CD switch
S802:	TUNER switch
S803:	VOL + switch.
S804:	VOL - switch
S805:	FWD- Skip Switch ()
S806:	REV- Skip Switch ()
S807:	CD OPEN/CLOSE Switch
S808:	POWER OFF/TAPE 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.

No mark :	CD STOP
() :	CD PLAY
< > :	FM
[] :	AM

- Battery Current

Vol min.:	120mA (CD)
	103mA (FM)
	102mA (AM)
Vol max.:	118mA (CD)
	102mA (FM)
	100mA (AM)

– Measurement instruction

CD:	1kHz, 0dB
FM:	60dB, 30% Mod.
AM:	74dB/m, 30% Mod.

- 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.

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

- No mark: All VR is set as a center position.

- Signal Line

—  :	POSITIVE VOLTAGE LINE
—  :	CD PLAYBACK SIGNAL LINE
—  :	FM SIGNAL LINE
—  :	FM OSC SIGNAL LINE
—  :	FM/AM SIGNAL LINE
—  :	AM SIGNAL LINE
—  :	AM OSC SIGNAL LINE
—  :	MAIN SIGNAL LINE

Important safety notice:

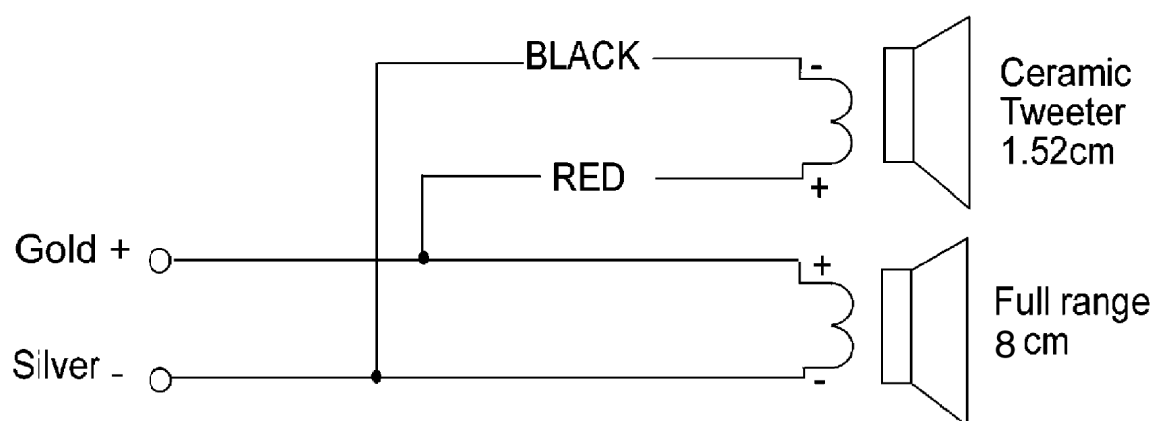
Components identified by  mark have special characteristics important for safety.

Furthermore, special parts which have purpose 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 and LSI are sensitive to static electricity.
- Secondary trouble can be prevented by taking care during repair.
- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers directly.

12.2. Schematic Diagram (SB-EN17)



12.3. Schematic Diagram

SCHEMATIC DIAGRAM-1

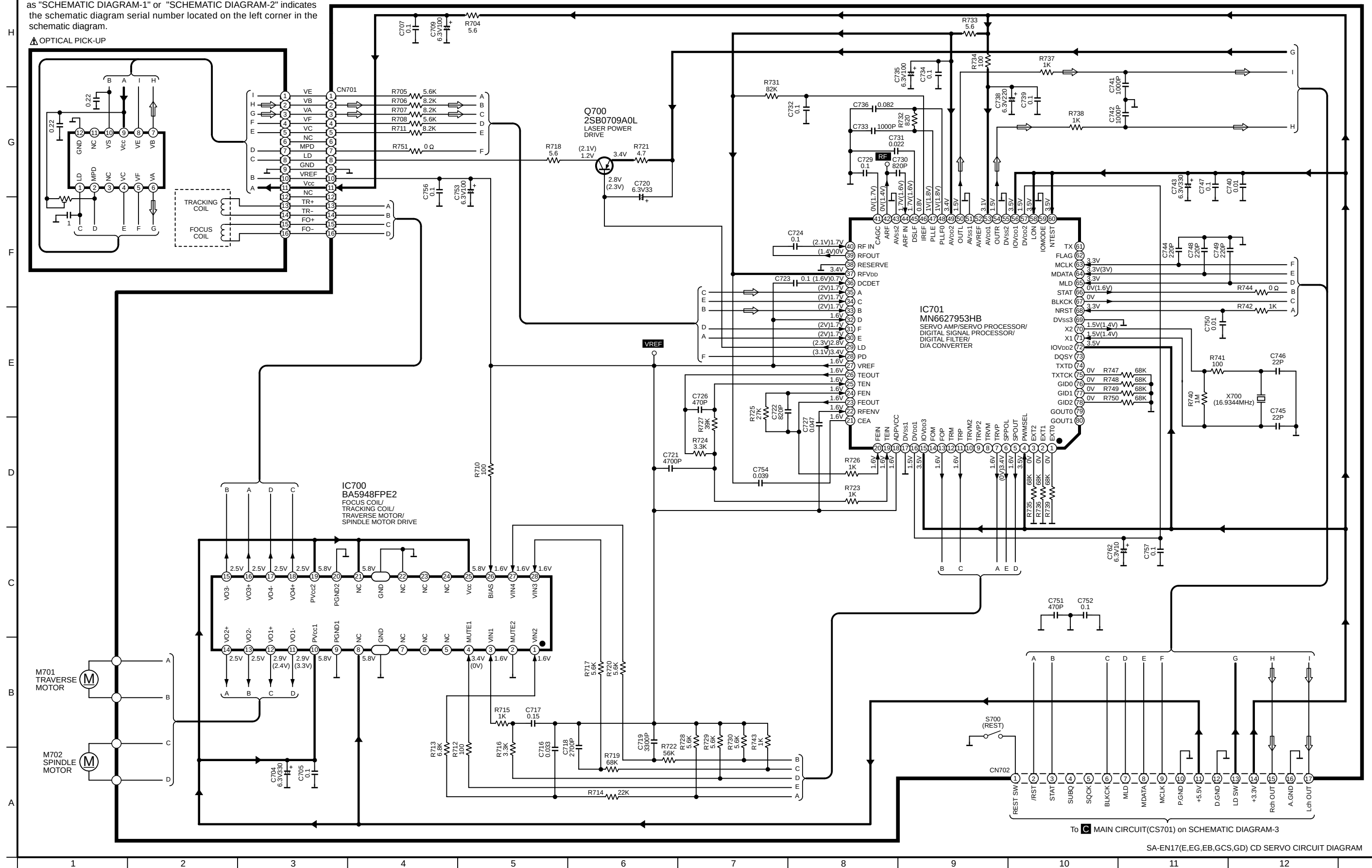
NOTE:

The number which noted at the connectors on the schematic diagram as "SCHEMATIC DIAGRAM-1" or "SCHEMATIC DIAGRAM-2" indicates the schematic diagram serial number located on the left corner in the schematic diagram.

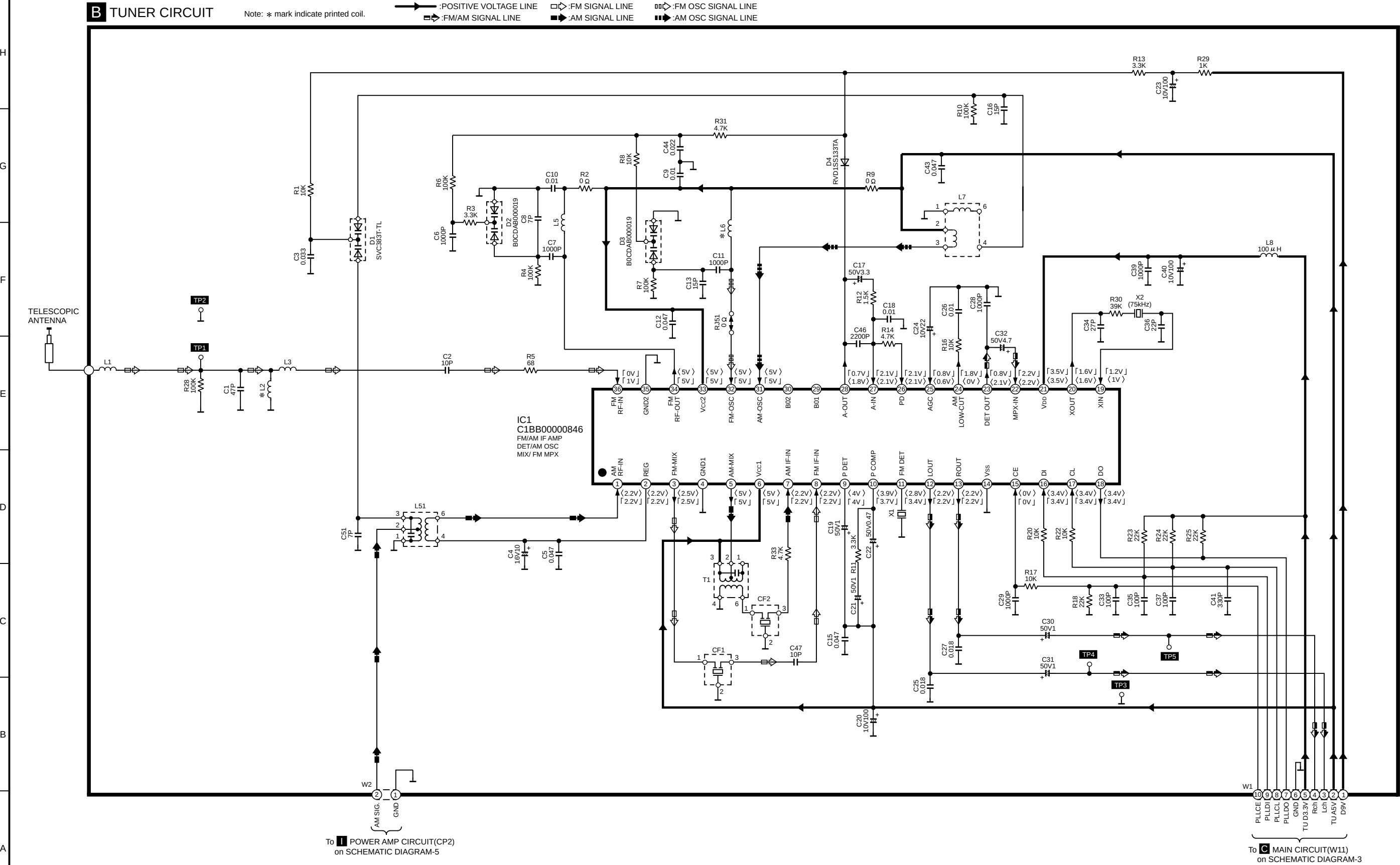
▲ OPTICAL PICK-UP

A CD SERVO CIRCUIT

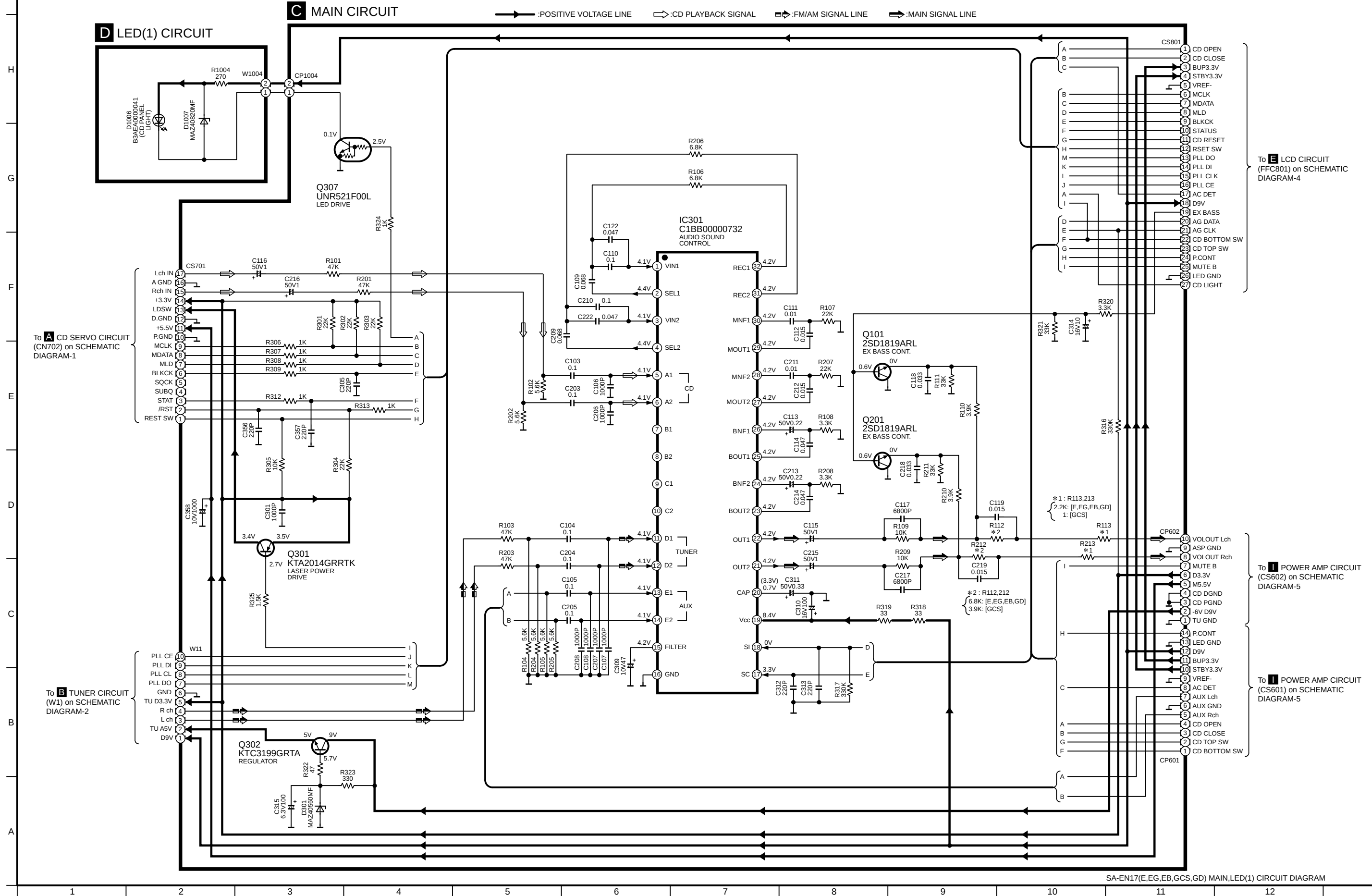
→ : POSITIVE VOLTAGE LINE ⇨ : CD PLAYBACK SIGNAL LINE



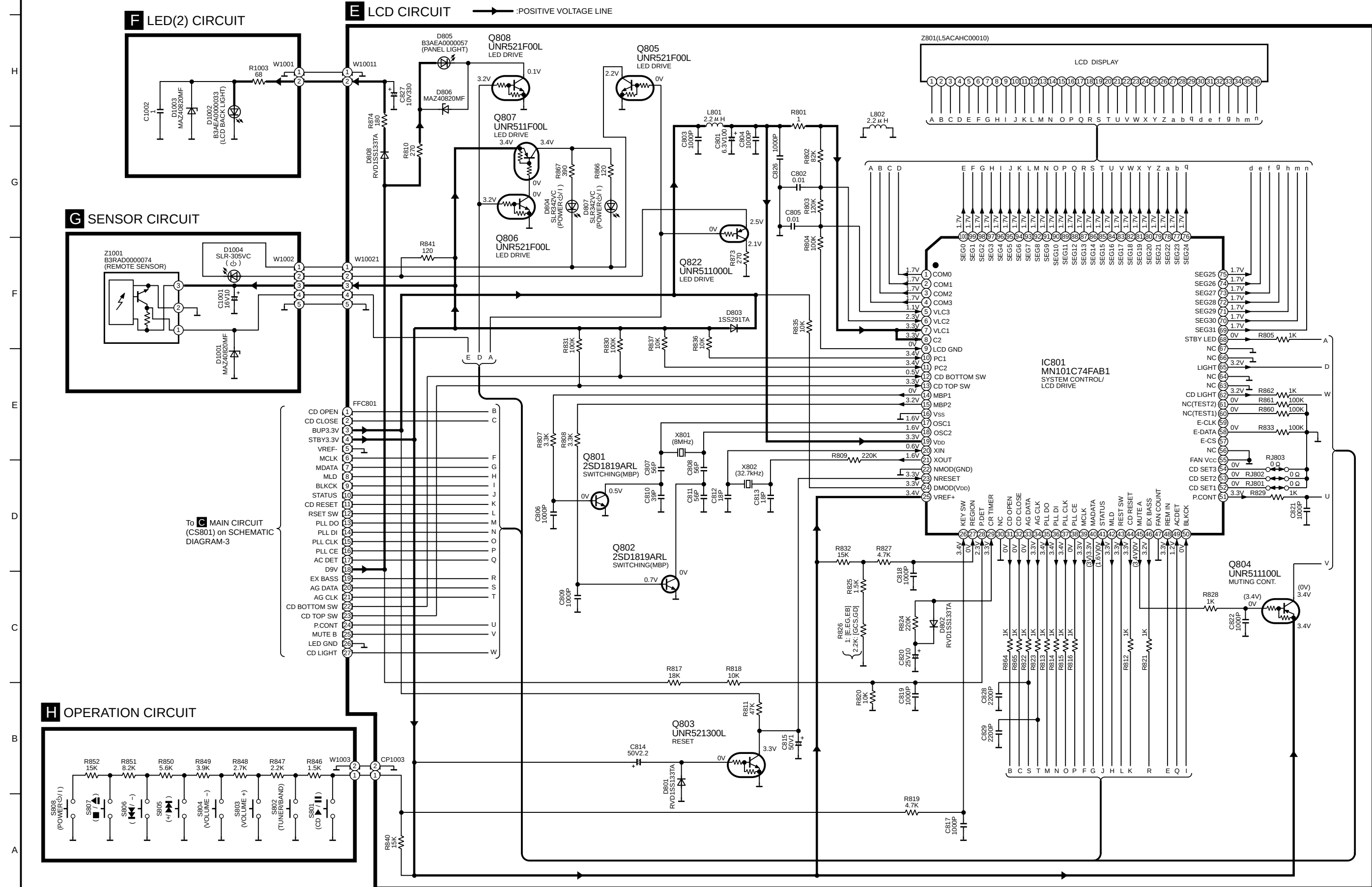
SCHEMATIC DIAGRAM-2



SCHEMATIC DIAGRAM-3



| SCHEMATIC DIAGRAM-4

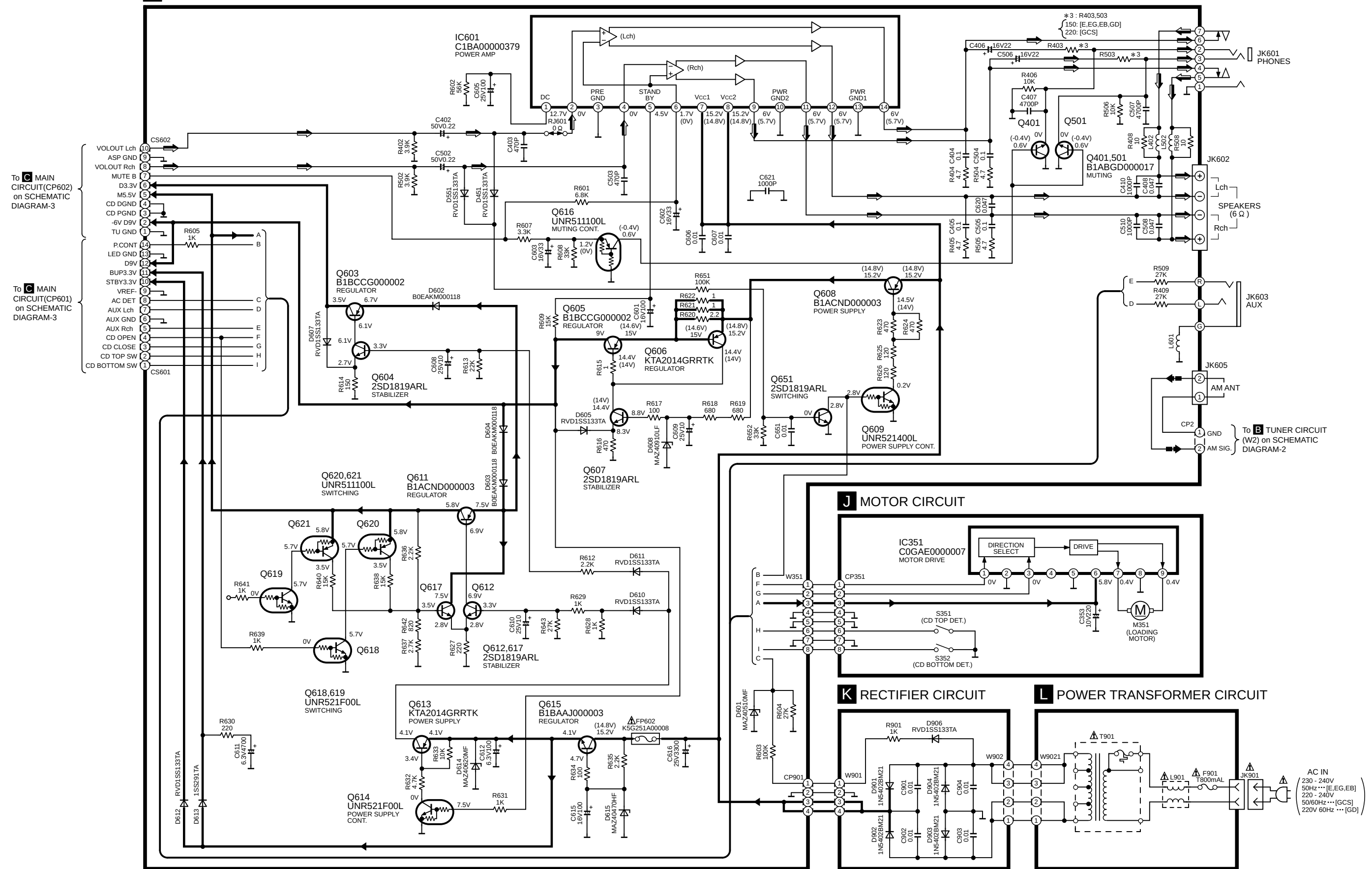


SA-EN17(E,EG,EB,GCS,GD) LCD,LED(2),SENSOR,OPERATION CIRCUIT DIAGRAM

SCHEMATIC DIAGRAM-5

POWER AMP CIRCUIT

→ : POSITIVE VOLTAGE LINE
 → : MAIN SIGNAL LINE
 → : AM SIGNAL LINE

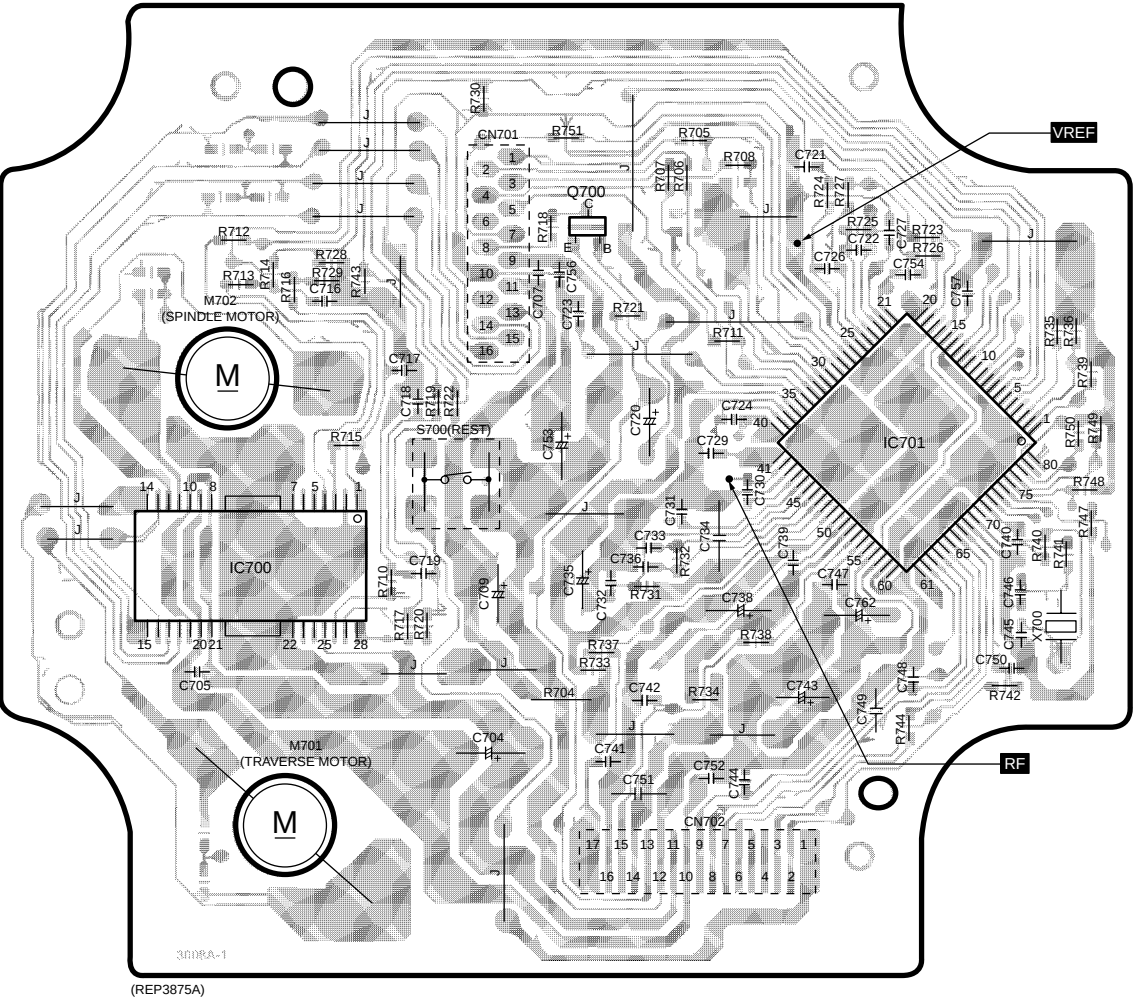


SA-EN17(E,EG,EB,GCS,GD) POWER AMP,MOTOR,RECTIFIER,POWER TRANSFORMER CIRCUIT DIAGRAM

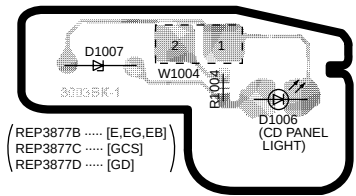
13 Printed Circuit Board

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

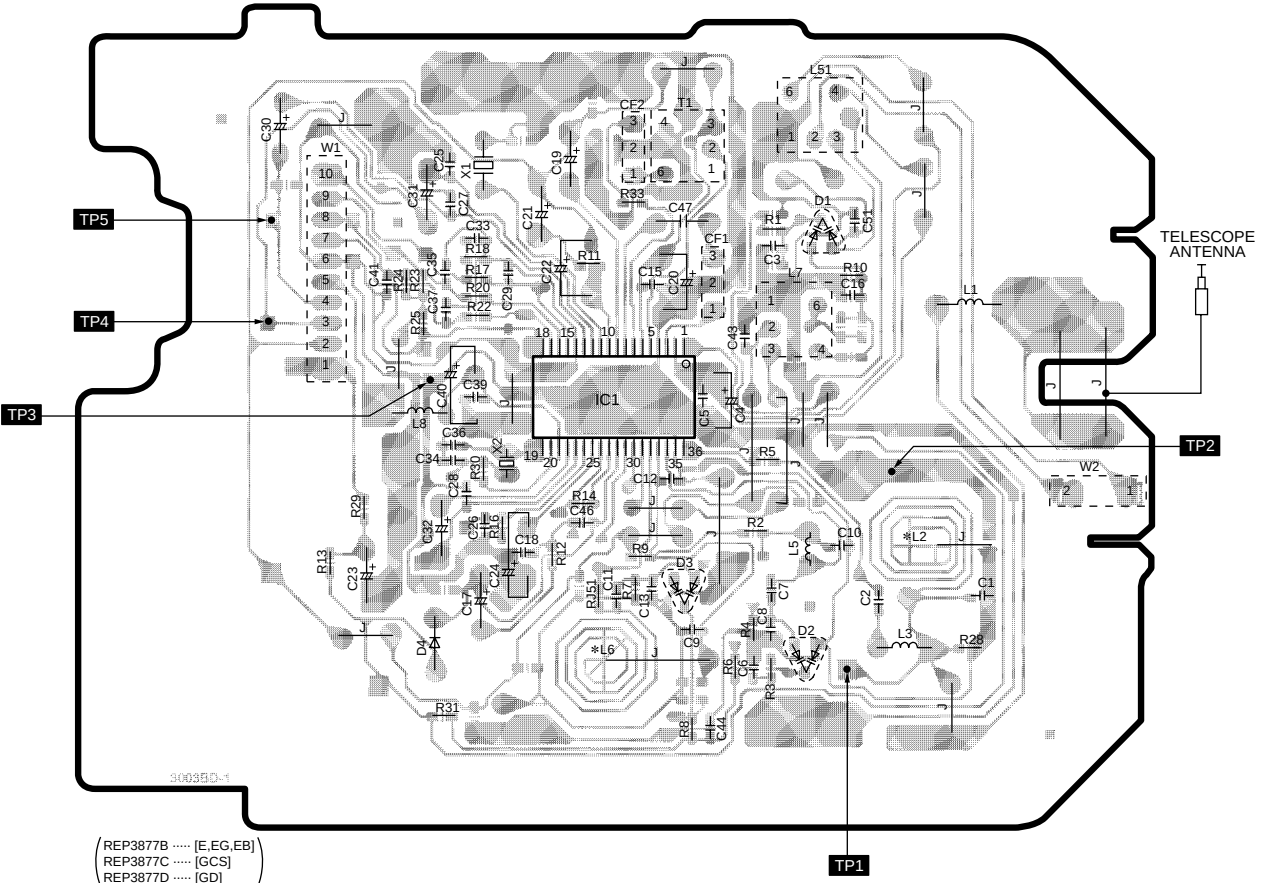
A CD SERVO P.C.B.



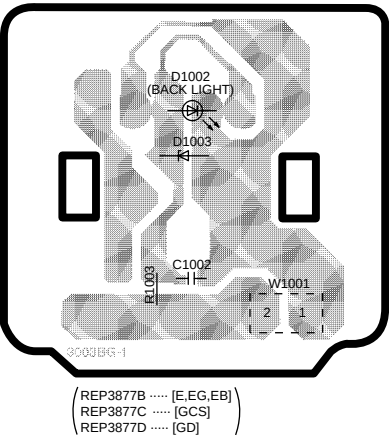
D LED(1) P.C.B.



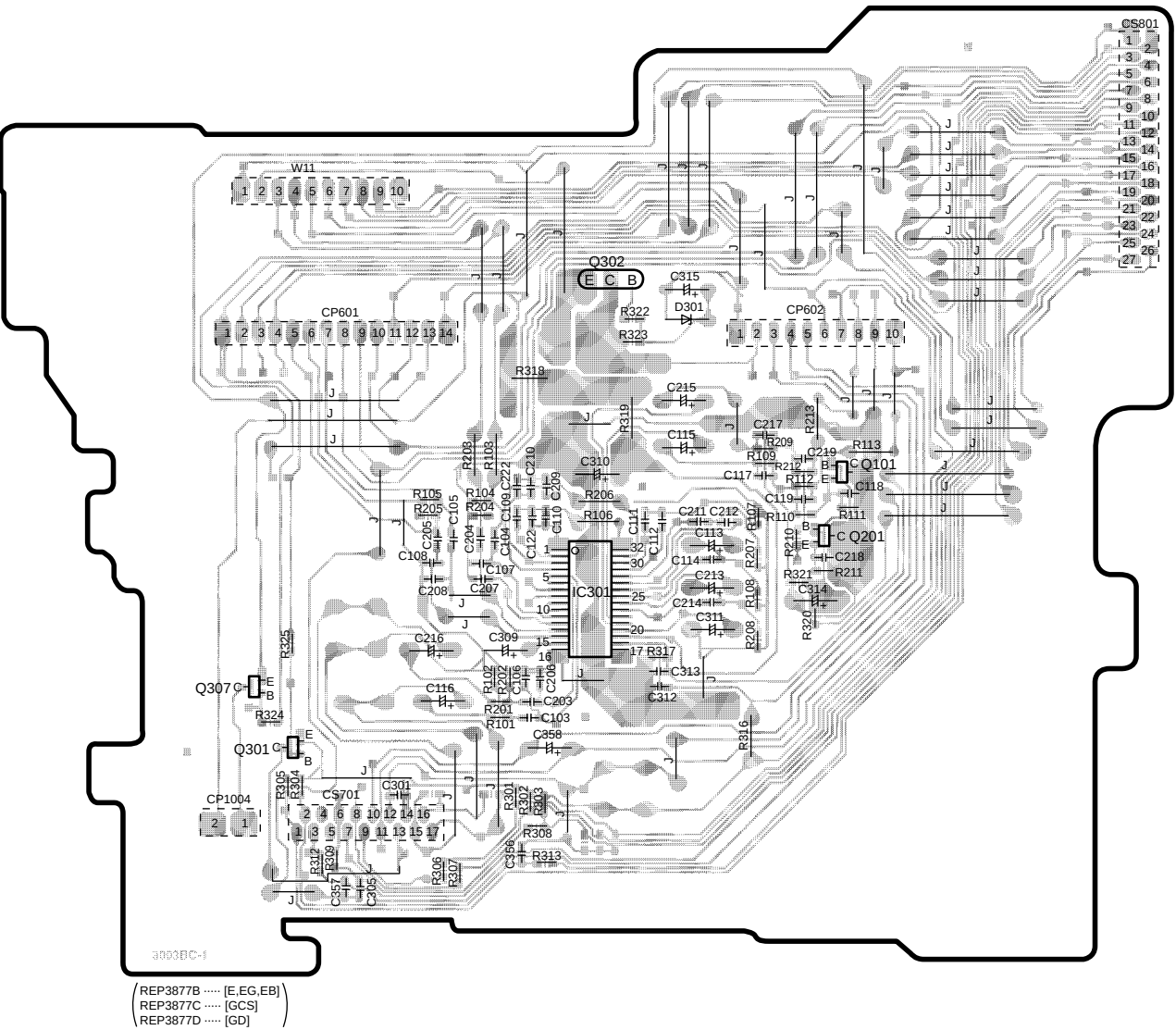
B TUNER P.C.B.



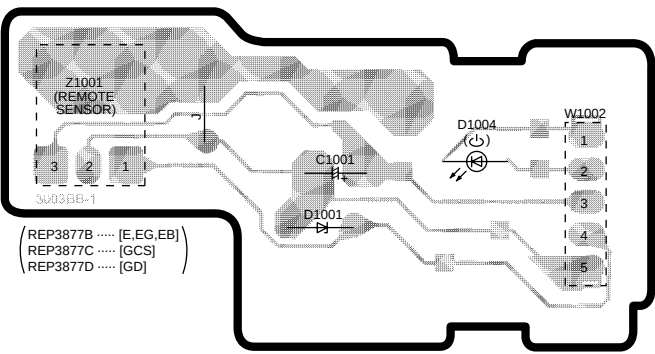
F LED(2) P.C.B.



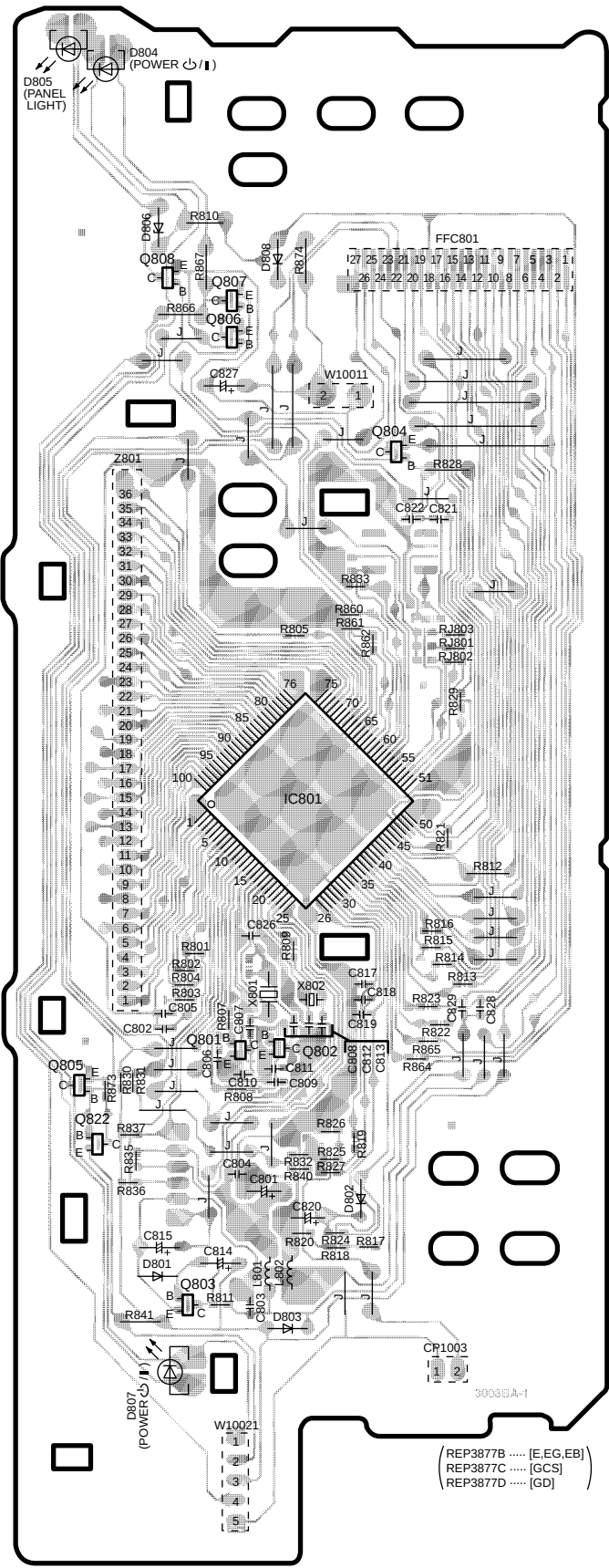
C MAIN P.C.B.



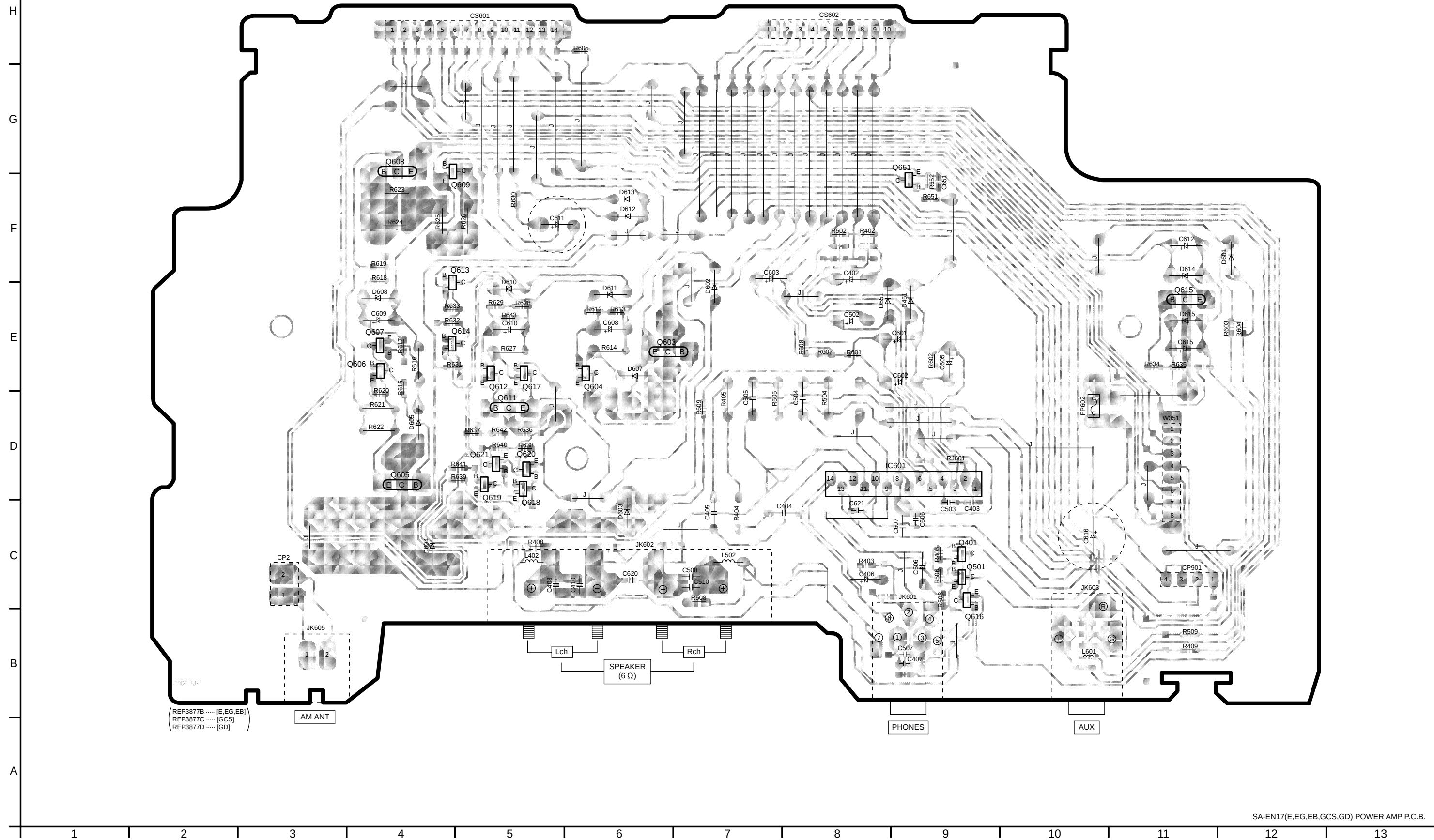
G SENSOR P.C.B.



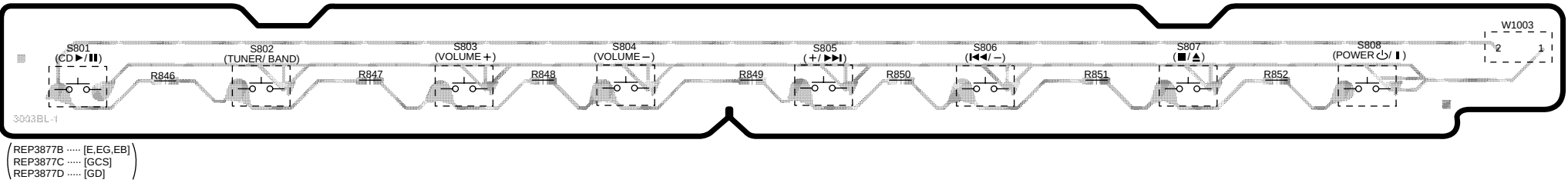
E LCD P.C.B.



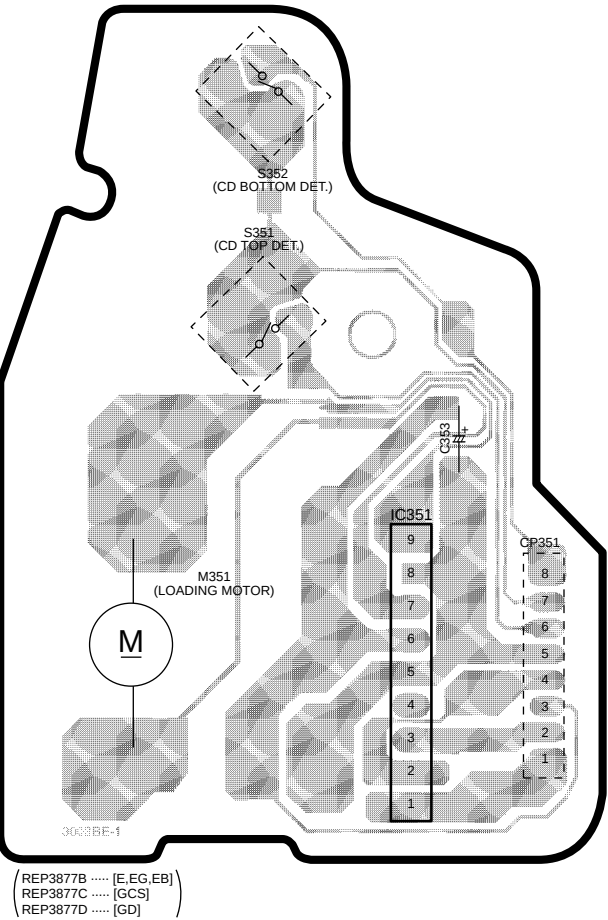
I POWER AMP P.C.B.



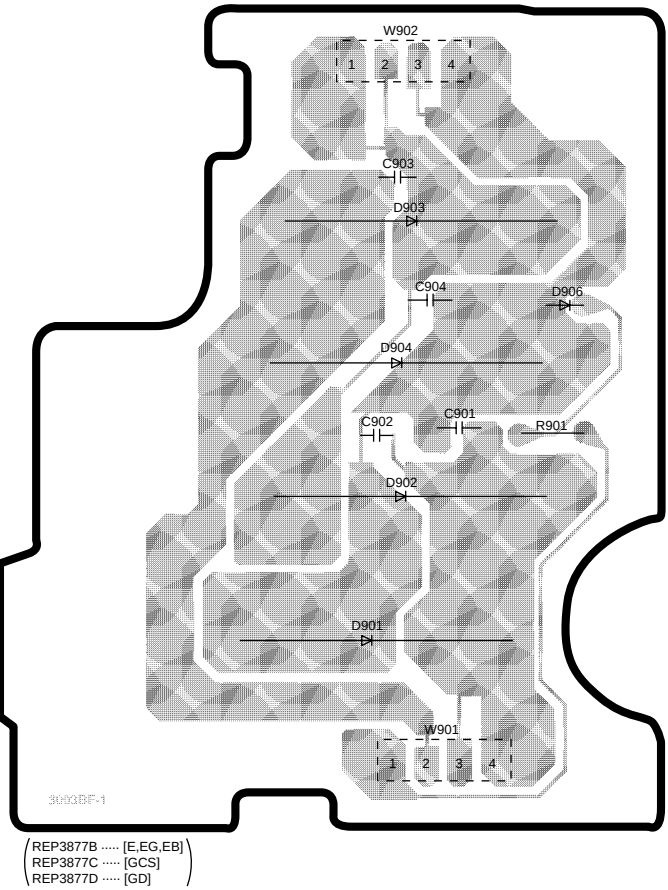
H OPERATION P.C.B.



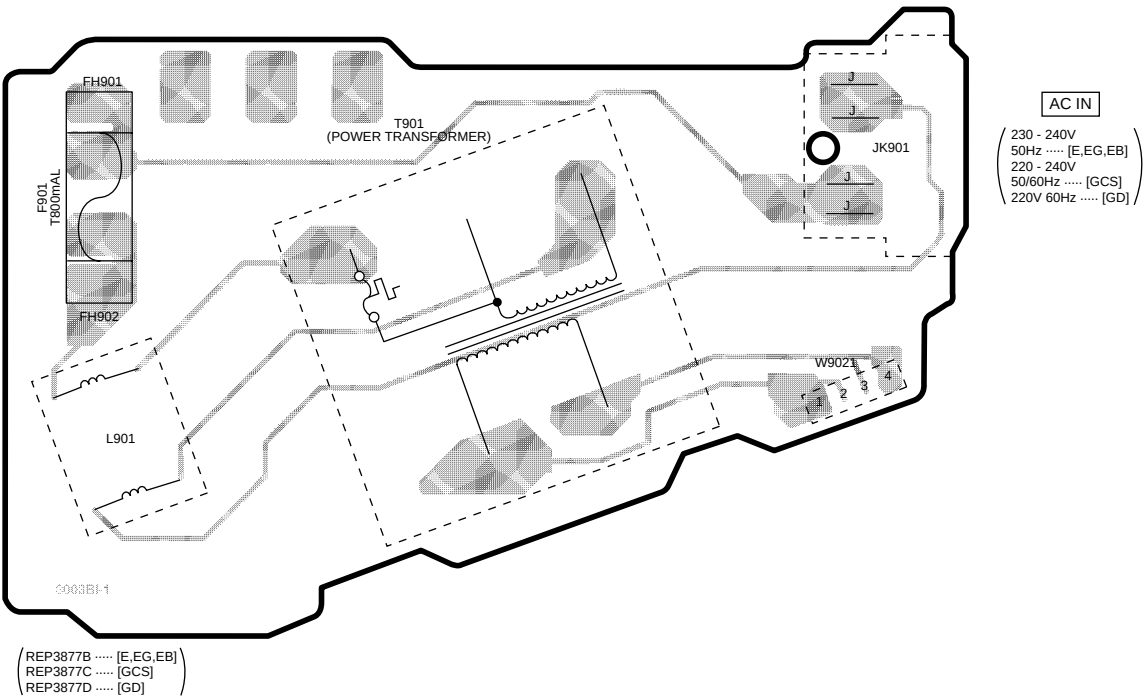
J MOTOR P.C.B.



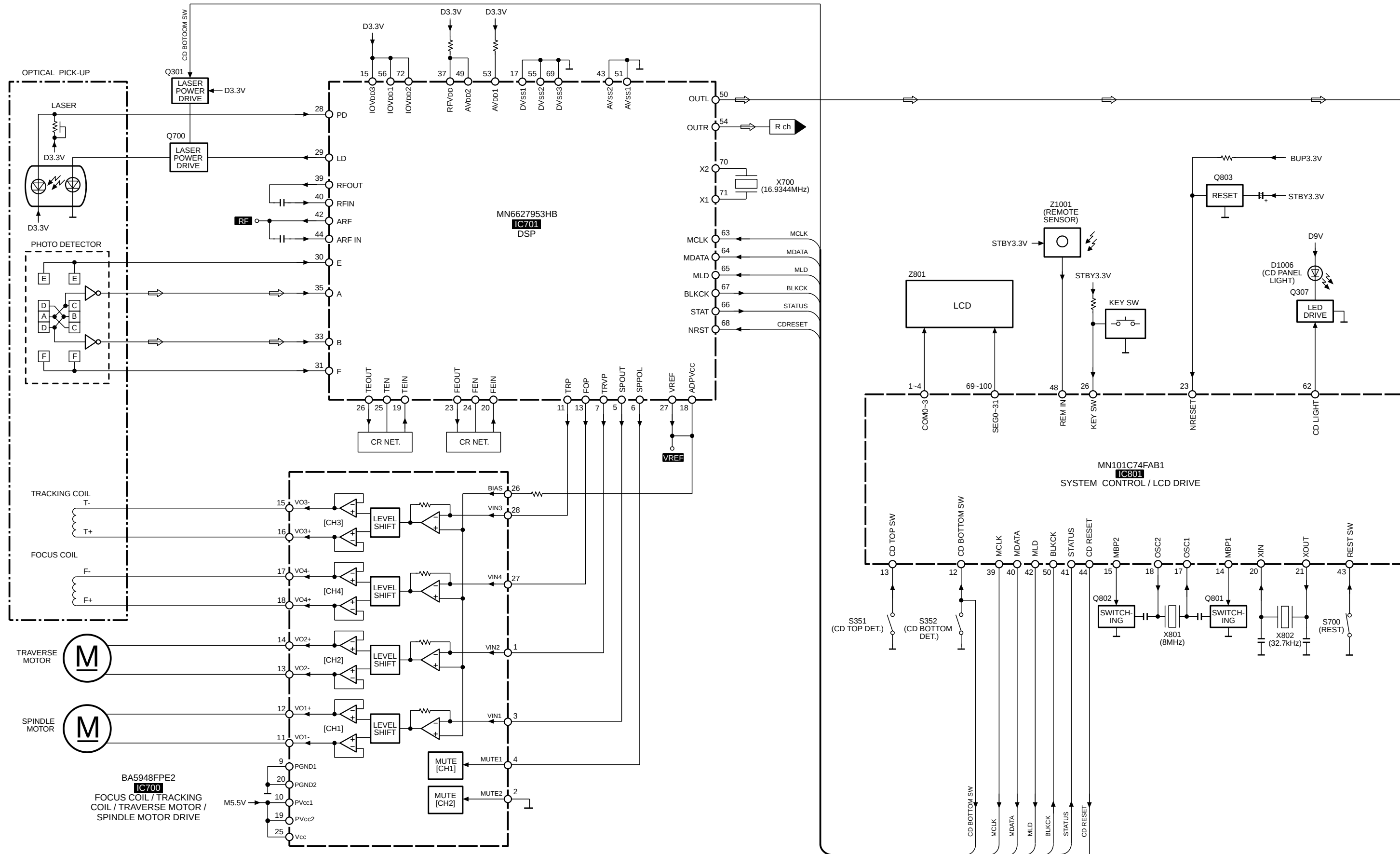
K RECTIFIER P.C.B.

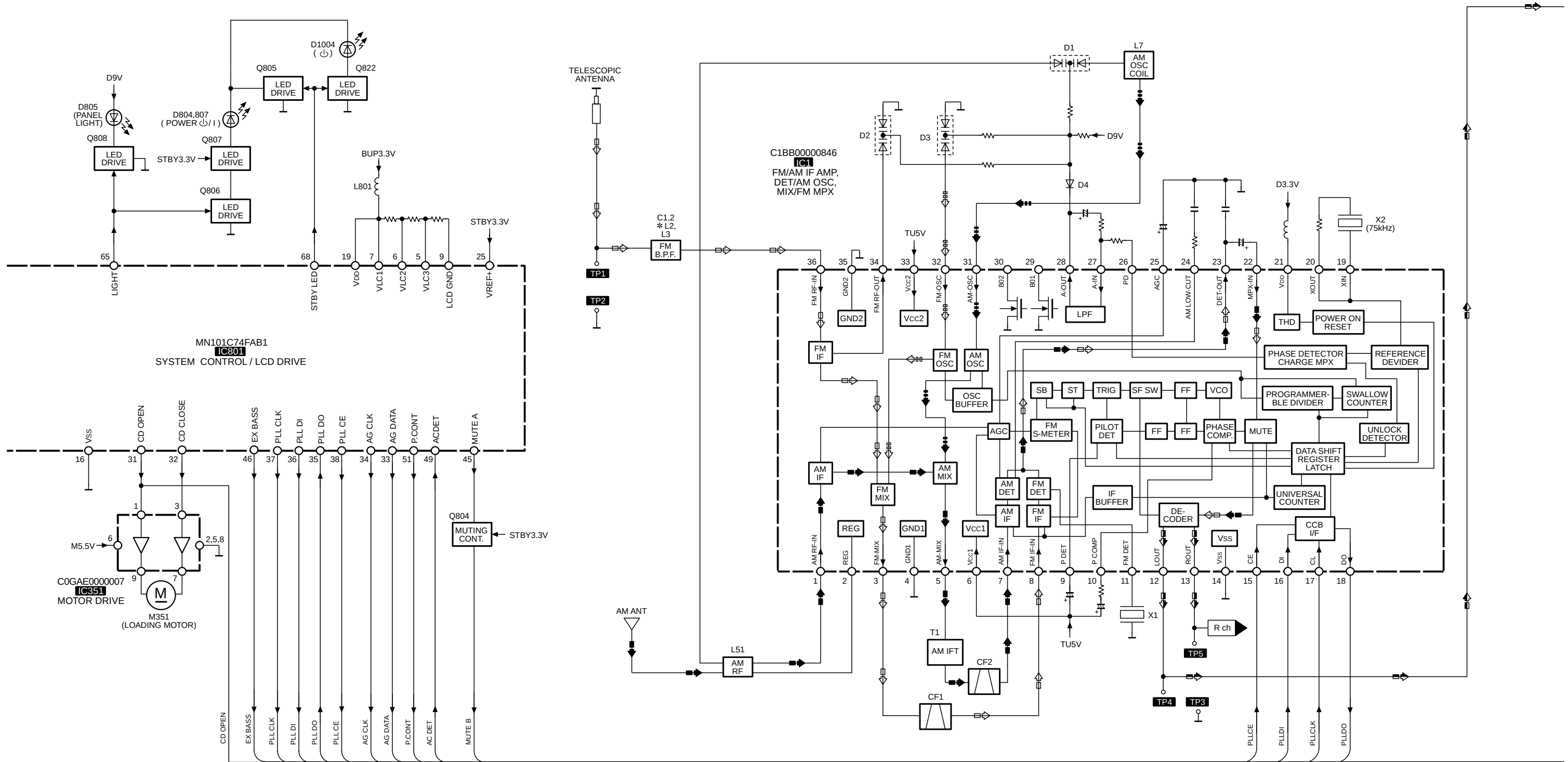


L POWER TRANSFORMER P.C.B.

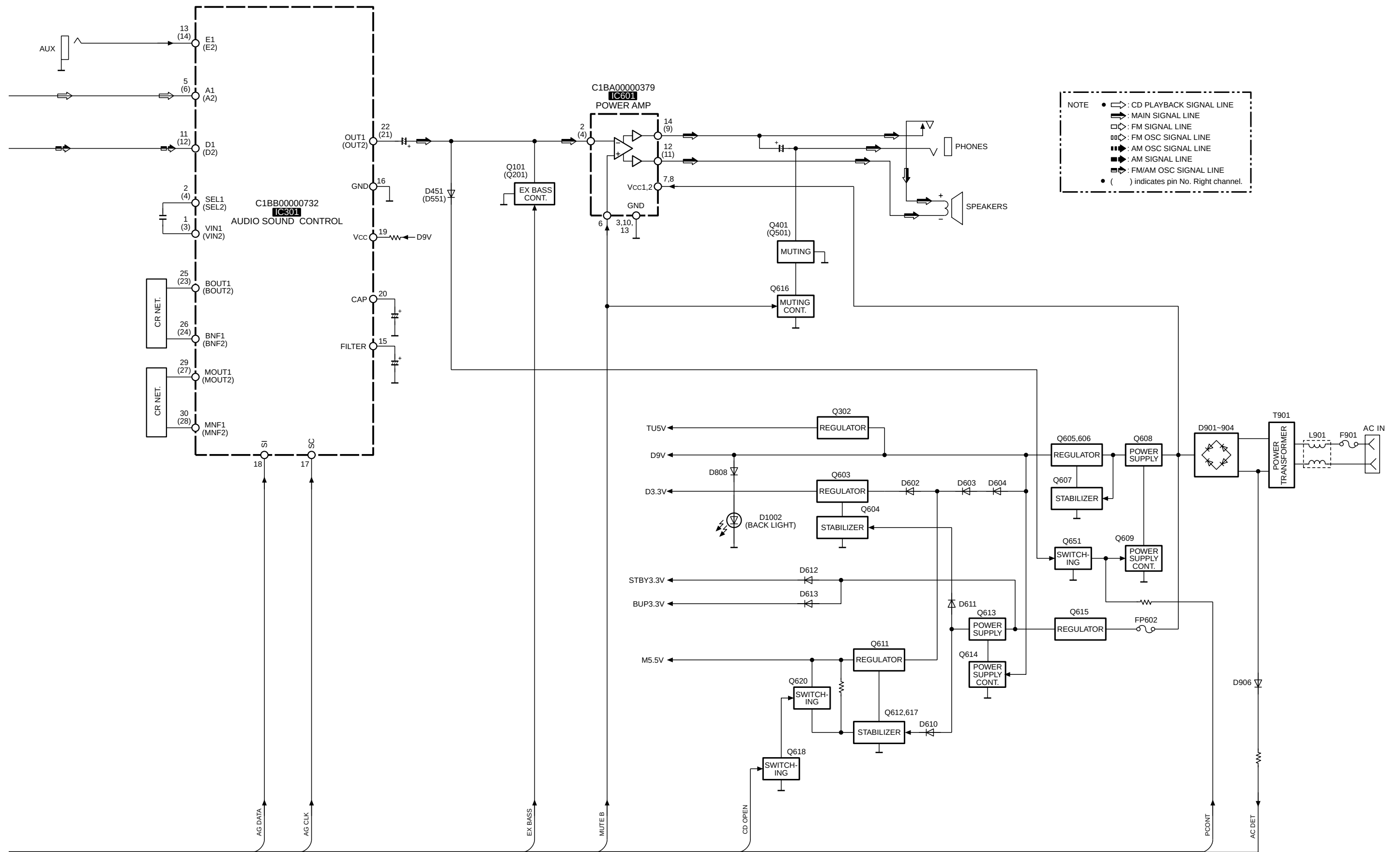


14 Block Diagram

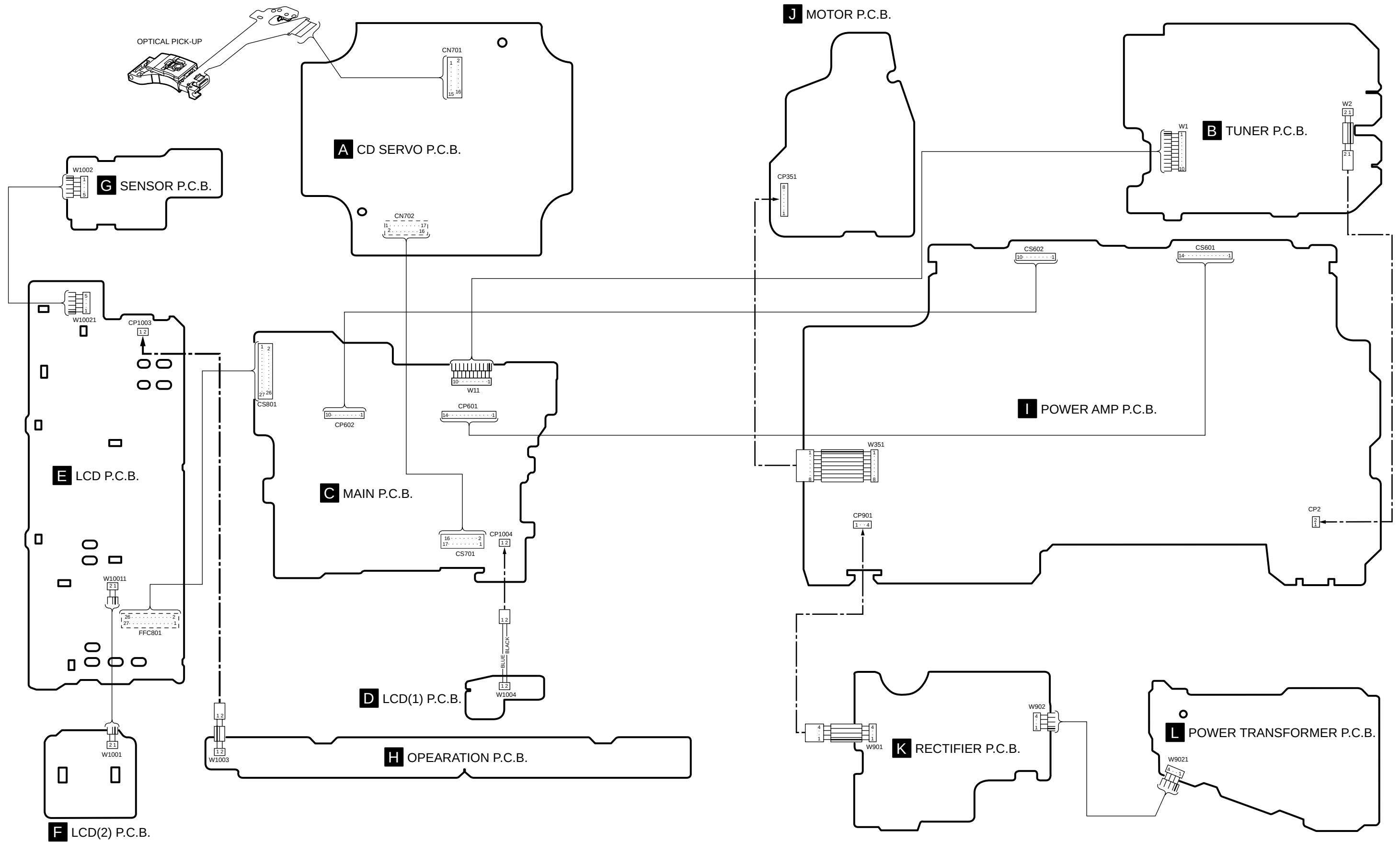




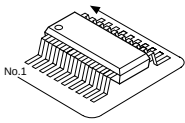
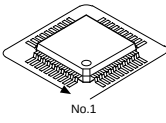
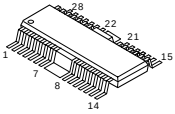
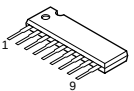
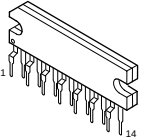
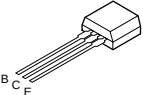
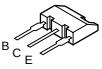
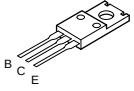
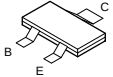
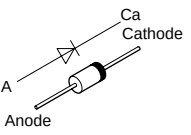
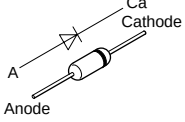
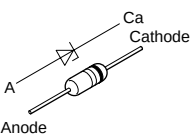
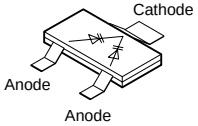
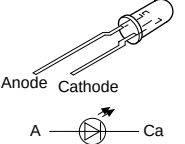
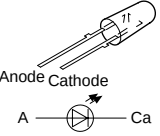
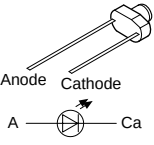
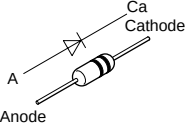
SA-EN17(E,EG,EB,GCS,GD) BLOCK DIAGRAM



15 Wiring Connection Diagram



16 Type Illustrations of ICs, Transistors and Diodes

C1BB00000732 32PIN C1BB00000846 36PIN 		MN6627953HB 80PIN MN101C74FAB1 100PIN 		BA5948FPE2 	C0GAE0000007 
C1BA00000379 	KTC3199GRTA 	B1ACND000003 B1BAAJ000003 	B1BCCG000002 	2SB0709A0L 2SD1819ARL UNR511100L 	UNR511000L UNR511F00L UNR521300L UNR521400L UNR521F00L KTA2014GRRTK B1ABGD000017
1N5402BM21 B0EAKM000118 	RVD1SS133TA 	MAZ40470HF MAZ40510MF MAZ40560MF MAZ40620MF MAZ40820MF MAZ40910LF 		B0CDAB000019 SVC383T-TL 	B3AEA0000057 SLR342VC 
B3AEA0000033 B3AEA0000041 	SLR-305VC 	1SS291TA 			

17 Measurements and Adjustments

17.1. Tuner Adjustment

17.1.1. Required tools and equipment

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

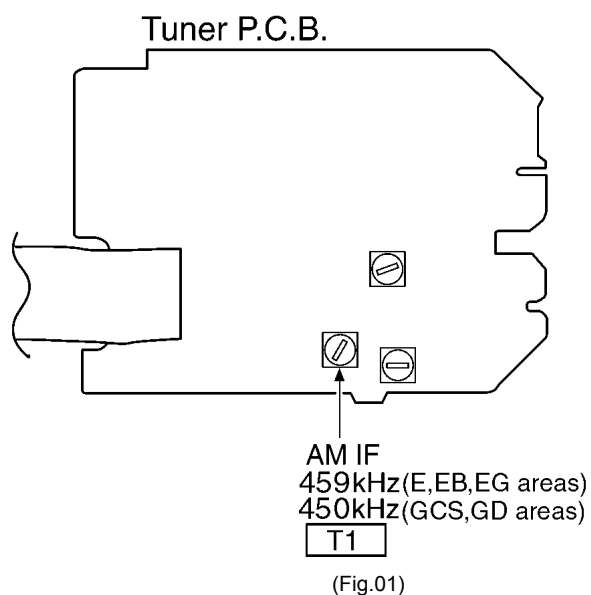
17.1.2. Preparations for Adjustment

- Apply under [9. Operation Checks and Component Replacement].
- Connect to the power supply.
- Maximize the volume.

17.1.3. AM IF Adjustment

1. Follow the steps 1 and 2 of AM RF Adjustment.
2. Tune to the signal [SG 459kHz (E,EB,EG areas)] / [SG 450kHz (GCS,GD areas)].
3. Revolve the T1 core and adjust that the output waveforms reaches maximum.

17.2. Adjustment Point



18 Terminal Functions of ICs

• IC801 (MN101C74FAB1) Microprocessor

Pin No.	Mark	I/O	Function
1 - 4	COM0 - COM4	O	LCD common output
5 - 7	VLC3 -VLC1	-	LCD power supply
8	C2	-	Capacitor terminal for pressure
9	LCD_GND	I/O	LCD GND
10	PC1	I	Writing data
11	PC2	I/O	Writing clock
12	CD_BOTTOM_SW	I/O	CD bottom switch
13	CD_TOP_SW	I/O	CD top switch
14	MBP1	O	Beet proof 1
15	MBP2	O	Beet proof 2
16	VSS	-	GND
17	OSC1	I	Main oscillator input (8MHz)
18	OSC2	O	Main oscillator output (8MHz)
19	VDD	-	VDD +3.3V
20	XI	I	Sub oscillator input (32kHz)
21	XO	O	Sub oscillator output (32kHz)
22	NMOD	I	CD Memory mode select
23	NRESET	I	Reset
24	DMOD	I	Silial writing mode
25	VREF+	-	A/D converter reference voltage
26	KEYSW	O	Key input
27	REGION	O	Aria/Model select
28	PDET	O	Main voltage check
29	CRT	O	CR timer
30	NC	I	N.C.
31	CD_OPEN	O	CD open switch function
32	CS_CLOSE	O	CD close switch function
33	AG_DATA	O	ASP data output
34	AG_CLK	O	ASP clock output
35	PLL_D0	O/I	PLL data input
36	PLL_D1	O/I	PLL data output
37	PLL_CLK	O/I	PLL CLK
38	PLL_CE	O/I	PLL chip select output
39	MCLK	O/I	CD LSI command clock
40	MDATA	O/I	CD LSI command data
41	STATUS	I/O	CD status
42	MLD	O/I	CD LSI command load
43	REST_SW	I/O	CD travers limit switch
44	CD_RESET	O	CD reset switch
45	MUTE_A	I/O	Audio Mute Output (L: MUTE ON)
46	EX_BASS (D-BASS)	O	EX_BASS setting
47	FAN_COUNT	I	N.C.
48	REM_IN	I/O	Remocon input
49	ACDET	I/O	Ac detection
50	BLKCK	I/O	CD subcode block clock input
51	PCONT	I/O	Power control output
52	CD_SET1	I	CD setting 1
53	CD_SET2	I	CD setting 2
54	CD_SET3	I	CD setting 3
55	FAN_VCC	I	Not used. Connected with GND exterminally through resistance.
56	NC	I	N.C.
57	E_CS	O	EEPROM chip select
58	E_DATA	I/O	EEPROM DATA
59	E_CLK	O	EEPROM CLOCK
60	NC(TEST1)	I	TEST 1 terminal
61	NC(TEST2)	I	TEST 2 terminal
62	CD_LIGHT	O	CD panel lighting
63	NC	I	Not used
64	NC	I	Not used

Pin No.	Mark	I/O	Function
65	LIGHT	O	Operation switch
66	NC	I	Not used
67	NC	I	Not used
68	STBY_LED	O	Standby_LED
69-100	SEG31-SEG0	O	LCD Segment Output

19 Replacement Parts List

Notes:

• Important safety notice:

Components identified by $\triangle$ 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 (μ F) 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.

19.1. SA-EN17

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	RAE0251Z-X	TRAVERSE ASS'Y	1	
1-1	RAF0250A-X	OPTICAL PICK-UP	1	
1-2	RDG0593	RELAY GEAR	1	
1-3	RDG0592	DRIVE GEAR	1	
1-5	RMS0849	GAIDE SHAFT	1	
1-6	RXQ1225	TRV MOTOR	1	
1-7	XQN2+C3FJ	SCREW	2	
2	RMG0649-A	FLOATING RUBBER B	4	
3	XTN2+6GFJ	SCREW	3	
4	RMG0655-W	RUBBER CAP	1	
5	RMN0807	ILLUMI PNL HOLDER A	1	
6	RMN0808	ILLUMI PNL HOLDER B	1	
7	RMN0809	LED HOLDER	1	
8	RMN0810	LID LED HOLDER	1	
9	RMN0811	LCD HOLDER	1	
10	RMNT0067	ANT SOCKET HOLDER	1	
11	RMX0314	LCD SPACE SHEET	1	
12	XTV3+8FJ	SCREW	3	
13	RFKPAEN17P-S	SMALL DC MOTORS ASS'Y	1	
14	N1ACF5000001	ROD ANTENA	1	
15	RDG0578	PULLEY GEAR	1	
16	RDG0598-1	DRUM GEAR L	1	
17	RDG0599	DRUM GEAR R	1	
18	RDL0333	LID LED LENS	1	
19	RGK1860-K	SIDE ORNAMENT L	1	
20	RGK1861-K	SIDE ORNAMENT R	1	
21	RGL0669-Q	ILLUMI PANEL	1	
22	RGL0670-Q	ST LED PIECE	1	
23	RGP1305-Q	LCD PANEL	1	
24	RHD14134	SCREW	2	
25	RHD26044	SCREW	4	
26	RHD26047	SCREW	20	
27	RHD26048	SCREW	4	
28	RHDX2001-S1	SCREW	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
29	RHW16022	ARM WASHER	2	
30	RHDW30003	SCREW	2	
31	RKA0162-K	LEG RUBBER	4	
32	RFKGAEN17E-S	FRONT CAB ASS'Y	1	
33	RKS0410B-K	BACK CAB	1	(E)(EB)(EG)
33	RKS0410C-K	BACK CAB	1	(GCS)
33	RKS0410D-K	BACK CAB	1	(GD)
34	RMB0816	HOLDER SPRING	1	
35	RMB0817	LIFT SPRING	1	
36	RMB0818	LEVER SPRING	1	
37	RMB0819	CD SPRING	1	
38	RMB0820	PLATE SPRING	1	
39	RMB0831	CD SPRING B	1	
40	RME0427	R.ANT TERMINAL	1	
41	RMET0025-1	CD FLOATING SPRING	4	
42	RMF0380-1	LED COVER HIMELON	1	
43	RMG0672-K	BELT	1	
44	RMK0618	GEAR CH L	1	
45	RMK0619	GEAR CH R	1	
46	RMK0620	TRANS CH	1	
47	RML0682	LID ARM L	1	
48	RML0683	LID ARM R	1	
49	RML0684	LID ARM	1	
50	RML0685-1	SW LEVER	1	
51	RML0697	CLAMPER GUIDE	1	
52	RMN0203-J	HOLDER	2	
53	RMN0287	LIFT PLATE	1	
54	RMQ1412	SLIDE FRAME	1	
55	RMQ1413-1	CD HOLDER A	1	
56	RMQ1415	GEAR FIXTURE	1	
57	RMQ1416	SHAFT BEARING	2	
58	RMQ1447	SHAFT SUPPORT L	1	
59	RMQ1448	SHAFT SUPPORT R	1	
61	RMR1690-K	BACK CAB COVER	1	
62	RFKNAEN17P-S	SHAFT ASS'Y	1	
63	RMX0311	ARM ROLLER	2	
64	RMX0312	SLIDE ROLLER	4	
65	RMX0313	LID SLEEVE	2	
66	RQT4389ZAA	CLASS1 LABEL	1	(E)(EB)(EG)(GCS)
66	RQLTS0003	CLASS1 LABEL(KOREA)	1	(GD)
67	RSC0732	EARTH PLATE	1	
68	RSC0733	TUNER SHIELD	1	
69	RYQ0537-Q	CD LID UNIT A	1	
70	RYQ0538-S	CD LID UNIT B	1	
71	RYQ0553-S	OPERATION BTN UNIT	1	
72	RYQ0557-H	CD HOLDER B UNIT	1	
73	XTN26+12GFZ	SCREW	4	
74	XTV3+12GFJ	SCREW	8	
75	XTV3+12GFJK	SCREW	7	
76	XTV3+20GFJ	SCREW	3	
77	XTW2+8GFJK	SCREW	12	
78	XYN26+C6FJ	SCREW	2	
79	XYN3+F12FJ	R.ANT SCREW	1	
80	RHM0001	MAGNET	1	
81	RMR0334	FIX PLATE	1	
82	RMR0624-W5	CLAMPER	1	
83	RGN2780A-K	NAME PLATE	1	(E)
83	RGN2780B-K	NAME PLATE	1	(GCS)
83	RGN2780C-K	NAME PLATE	1	(GD)
84	RQLXS0053	LASER CAUTION LABEL	1	(E)(EB)(EG)(GCS)
84	RQLTS0002	LASER CAUTION LABEL	1	(GD)
A1	EUR7711170	REMOCON	1	
A1-1	UR64EC2337F	R/C BATT. COVER	1	
A2	RFA2699	AC CORD	1	(E)(EG) $\triangle$
A2	RFA2700	AC CORD	1	(EB) $\triangle$
A2	RJA0019-D	AC CORD	1	(GCS) $\triangle$

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A2	RFA2701	AC CORD	1	(GD) △
A3	RQT7895-R	O/I BOOK	1	(E) Spanish, Russian, Ukrainian, Czech, Polish
A3	RQT7894-B	O/I BOOK	1	(E)(EB)(GCS) English
A3	RQT7892-D	O/I BOOK	1	(EG) Germany, Italian, French
A3	RQT7893-H	O/I BOOK	1	(EG) Dutch, Danish, Swedish
A3	RQT7896-K	O/I BOOK	1	(GCS) Chinese
A3	RQT7897-Z	O/I BOOK	1	(GD) Korean
A4	G0ZZ00002036	AM LOOP ANTENNA	1	
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	
C6, C7	ECUV1H102KBV	50V 1000P	2	
C8	ECUV1H070DCV	50V 7P	1	
C9, 10	ECUV1E103KBV	25V 0.01U	2	
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	ECEA1AKA101B	10V 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, 29	ECUV1H102KBV	50V 1000P	2	
C30, 31	ECEA1HKA010B	50V 1U	2	
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	ECBT1H100JC5	50V 10P	1	
C51	ECUV1H070DCV	50V 7P	1	
C103-05	ECUV1C104KBV	16V 0.1U	3	
C106-08	ECUV1H102KBV	50V 1000P	3	
C109	ECUV1C683KBV	16V 0.068U	1	
C110	ECUV1C104KBV	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, 16	ECEA1HKA010B	50V 1U	2	
C117	ECUV1H682KBV	50V 6800P	1	
C118	ECUV1C333KBV	16V 0.033U	1	
C119	ECUV1H153KBV	50V 0.015U	1	
C122	ECUV1C473KBV	16V 0.047U	1	
C203-05	ECUV1C104KBV	16V 0.1U	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C206-08	ECUV1H102KBV	50V 1000P	3	
C209	ECUV1C683KBV	16V 0.068U	1	
C210	ECUV1C104KBV	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	
C215, 16	ECEA1HKA010B	50V 1U	2	
C217	ECUV1H682KBV	50V 6800P	1	
C218	ECUV1C333KBV	16V 0.033U	1	
C219	ECUV1H153KBV	50V 0.015U	1	
C222	ECUV1C473KBV	16V 0.047U	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, 13	ECUV1H221KBV	50V 220P	2	
C314	ECEA1CKA100B	16V 10U	1	
C315	ECEA0JKA101B	6.3V 100U	1	
C353	ECA1AM221B	10V 220U	1	
C356, 57	ECUV1H221KBV	50V 220P	2	
C358	ECA1AM102B	10V 1000U	1	
C402	ECEA1HKAR22B	50V 0.22U	1	
C403	ECUV1H471KBV	50V 470P	1	
C404, 05	ECQV1H104JL3	50V 0.1U	2	
C406	ECEA1CKA220B	16V 22U	1	
C407	ECUV1H472KBV	50V 4700P	1	
C408	ECUV1C473KBV	16V 0.047U	1	
C410	ECUV1H102KBV	50V 1000P	1	
C502	ECEA1HKAR22B	50V 0.22U	1	
C503	ECUV1H471KBV	50V 470P	1	
C504, 05	ECQV1H104JL3	50V 0.1U	2	
C506	ECEA1CKA220B	16V 22U	1	
C507	ECUV1H472KBV	50V 4700P	1	
C508	ECUV1C473KBV	16V 0.047U	1	
C510	ECUV1H102KBV	50V 1000P	1	
C601	ECEA1CKA101B	16V 100U	1	
C602, 03	ECEA1CKA330B	16V 33U	2	
C605	ECA1EM101B	25V 100U	1	
C606	ECUV1E103KBV	25V 0.01U	1	
C607	ECBT1H103KB5	50V 0.01U	1	
C608	ECA1EM100B	25V 10U	1	
C609	ECEA1EKA100B	25V 10U	1	
C610	ECA1EM100B	25V 10U	1	
C611	ECA0JMA472E	6.3V 4700U	1	
C612	ECEA0JKA101B	6.3V 100U	1	
C615	ECEA1CKA101B	16V 100U	1	
C616	ECA1EM332E	25V 3300U	1	
C620	ECUV1C473KBV	16V 0.047U	1	
C621	ECUV1H102KBV	50V 1000P	1	
C651	ECUV1E103KBV	25V 0.01U	1	
C704	ECEA0JKA331B	6.3V 330U	1	
C705	ECUV1C104KBV	16V 0.1U	1	
C707	ECUV1C104KBV	16V 0.1U	1	
C709	ECEA0JKA101B	6.3V 100U	1	
C716	ECUV1C333KBV	16V 0.033U	1	
C717	ECUVNC154KBV	16V 0.15U	1	
C718	ECUV1H272KBV	50V 2700P	1	
C719	ECUV1H332KBV	50V 3300P	1	
C720	ECEA0JKA330B	6.3V 33U	1	
C721	ECUV1H472KBV	50V 4700P	1	
C722	ECUV1H821JCV	50V 820P	1	
C723, 24	ECUV1C104KBV	16V 0.1U	2	
C726	ECUV1H471JCV	50V 470P	1	
C727	ECUV1C473KBV	16V 0.047U	1	
C729	ECUV1C104KBV	16V 0.1U	1	
C730	ECUV1H821KBV	50V 820P	1	
C731	ECUV1C223KBV	16V 0.022U	1	
C732	ECUV1C104KBV	16V 0.1U	1	
C733	ECUV1H102KBV	50V 1000P	1	
C734	ECBT1H104KB5	50V 0.1U	1	
C735	ECEA0JKA101B	6.3V 100U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C736	ECUV1C823KBV	16V 0.082U	1	
C738	ECEA0JKA221B	6.3V 220U	1	
C739	ECUV1C104KBV	16V 0.1U	1	
C740	ECUV1E103KBN	25V 0.01U	1	
C741, 42	ECUV1H102KBV	50V 1000P	2	
C743	ECEA0JKA331B	6.3V 330U	1	
C744	ECUV1H221KBV	50V 220P	1	
C745, 46	ECUV1H220JCV	50V 22P	2	
C747	ECUV1C104KBV	16V 0.1U	1	
C748	ECUV1H221KBV	50V 220P	1	
C749	ECBT1H221KB5	50V 220P	1	
C750	ECUV1E103KBV	25V 0.01U	1	
C751	ECBT1H471KB5	50V 470P	1	
C752	ECUV1C104KBV	16V 0.1U	1	
C753	ECEA0JKA101B	6.3V 100U	1	
C754	ECUV1C393KBV	16V 0.039U	1	
C756, 57	ECUV1C104KBV	16V 0.1U	2	
C762	ECEA0JKA100B	6.3V 10U	1	
C801	ECEA0JKA101B	6.3V 100U	1	
C802	ECUV1E103KBV	25V 0.01U	1	
C803, 04	ECUV1H102KBV	50V 1000P	2	
C805	ECUV1E103KBV	25V 0.01U	1	
C806	ECUV1H102KBV	50V 1000P	1	
C807, 08	ECUV1H560JCV	50V 56P	2	
C809	ECUV1H102KBV	50V 1000P	1	
C810	ECUV1H390JCV	50V 39P	1	
C811	ECUV1H560JCV	50V 56P	1	
C812, 13	ECUV1H180JCV	50V 18P	2	
C814	ECEA1HKA2R2B	50V 2.2U	1	
C815	ECEA1HKA010B	50V 1U	1	
C817-19	ECUV1H102KBV	50V 1000P	3	
C820	ECEA1EKA100B	25V 10U	1	
C821, 22	ECUV1H102KBV	50V 1000P	2	
C826	ECUV1H102KBV	50V 1000P	1	
C827	ECA1AM331B	10V 330U	1	
C828, 29	ECUV1H222KBV	50V 2200P	2	
C901-04	ECBT1H103KB5	50V 0.01U	4	
C1001	ECEA1CKA100	16V 10U	1	
C1002	ECUV1C105KBV	16V 1U	1	
CF1	J0B1075A0101	FM CERAMIC FILTER	1	
CF2	RLFCFA450L4B	AM FILTER	1	(GCS) (GD)
CF2	RLFCFA459L4B	AM FILTER	1	(E) (EB) (EG)
CN701	RJS2A8616	CONNECTOR(16P)	1	
CN702	REE1327	FFC WIRE(17P)	1	
CP2	K1KA02A00008	CONNECTOR(2P)	1	
CP351	RJP8G18ZA	PLUG(8P)	1	
CP601	K1KA14A00127	CONNECTOR(14P)	1	
CP602	K1KA10A00263	CONNECTOR(10P)	1	
CP901	RJP4G9YA	CONNECTOR(4P)	1	
CP1003	K1KA02A00228	CONNECTOR(2P)	1	(GCS) (GD)
CP1003	K1KA02B00115	CONNECTOR(2P)	1	(E) (EB) (EG)
CP1004	RJP2G18ZA	CONNECTOR(2P)	1	
CS601	K1KB14B00026	CONNECTOR(14P)	1	
CS602	K1KB10B00042	CONNECTOR(10P)	1	
CS701	RJS2A5617	CONNECTOR(17P)	1	
CS801	K1MN27A00010	CONNECTOR(27P)	1	
D1	B0CDAD000010	VARI CAP	1	
D2, D3	B0CDAB000019	VARI CAP	2	
D4	RVD1SS133TA	DIODE	1	
D301	MAZ40560MF	DIODE	1	
D451	RVD1SS133TA	DIODE	1	
D551	RVD1SS133TA	DIODE	1	
D601	MAZ40510MF	DIODE	1	
D602-04	B0EAKM000118	DIODE	3	
D605	RVD1SS133TA	DIODE	1	
D607	RVD1SS133TA	DIODE	1	
D608	MAZ40910LF	DIODE	1	
D610-12	RVD1SS133TA	DIODE	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D613	1SS291TA	DIODE	1	
D614	MAZ40620MF	DIODE	1	
D615	MAZ40470HF	DIODE	1	
D801, 02	RVD1SS133TA	DIODE	2	
D803	1SS291TA	DIODE	1	
D804	SLR342VC	LED	1	
D805	B3AEA0000057	LED	1	
D806	MAZ40820MF	DIODE	1	
D807	SLR342VC	LED	1	
D808	RVD1SS133TA	DIODE	1	
D901-04	1N5402BM21	DIODE	4	
D906	RVD1SS133TA	DIODE	1	
D1001	MAZ40820MF	DIODE	1	
D1002	B3AEA0000033	BLUE LED	1	
D1003	MAZ40820MF	DIODE	1	
D1004	SLR-305VC	LED	1	
D1006	B3AEA0000041	LED	1	
D1007	MAZ40820MF	DIODE	1	
F901	K5D801BK0007	FUSE,	1	
FFC801	REE1328	MICON FFC(27P)	1	
FH901, 02	RJF0028-1	FUSE HOLDER	2	
FP602	K5G251A00008	FUSE PROTECTOR	1	△
IC1	C1BB00000846	IC	1	
IC301	C1BB00000732	IC	1	
IC351	C0GAE0000007	IC	1	
IC601	C1BA00000379	IC	1	
IC700	BA5948FPE2	IC	1	
IC701	MN6627953HB	IC	1	
IC801	MN101C74FAB1	IC	1	
JK601	RJJ37TK09	HEADPHONE JACK	1	
JK602	K4BC04B00055	SPEAKER JACK	1	
JK603	K2HC103B0149	AUX JACK	1	
JK605	RJP2G9YA	AM ANT. TERMINAL	1	
JK901	K2AA2B000009	AC INLET	1	△
L1	RLQY30S1W-F	COIL	1	
L3	RLQY30S1W-F	COIL	1	
L5	G0ZZ00002174	COIL	1	
L7	RL02B138	COIL	1	
L8	RLQZP101KT-Y	COIL	1	
L51	G2A385C00001	COIL	1	
L402	J0JKB0000020	COIL	1	
L502	J0JKB0000020	COIL	1	
L601	J0JBC0000032	INDUCTOR	1	
L801, 02	RLQA2R2JT1-Y	INDUCTOR	2	
L901	ELF15N035AN	POWER COIL	1	△
P1	RP67415	PACKING CASE	1	(E)
P1	RP67417	PACKING CASE	1	(EB)
P1	RP67416	PACKING CASE	1	(EG)
P1	RP67418	PACKING CASE	1	(GCS)
P1	RP67420	PACKING CASE	1	(GD)
P2	RPN1769	CUSHION	1	
P3	RPF0417	BAG A	1	
P4	RPF0418	BAG B	2	
PCB1	REP3875A	CD SERVO PCB ASS'Y	1	[RTL]
PCB2	REP3877B	MAIN PCB ASS'Y	1	[RTL] (E) (EB) (EG)
PCB2	REP3877C	MAIN PCB ASS'Y	1	[RTL] (GCS)
PCB2	REP3877D	MAIN PCB ASS'Y	1	[RTL] (GD)
Q101	2SD1819ARL	TRANSISTOR	1	
Q201	2SD1819ARL	TRANSISTOR	1	
Q301	KTA2014GRRTK	TRANSISTOR	1	
Q302	KTC3199GRTA	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q307	UNR521F00L	TRANSISTOR	1	
Q401	B1ABGD000017	TRANSISTOR	1	
Q501	B1ABGD000017	TRANSISTOR	1	
Q603	B1BCCG000002	TRANSISTOR	1	
Q604	2SD1819ARL	TRANSISTOR	1	
Q605	B1BCCG000002	TRANSISTOR	1	
Q606	KTA2014GRRTK	TRANSISTOR	1	
Q607	2SD1819ARL	TRANSISTOR	1	
Q608	B1ACND000003	TRANSISTOR	1	
Q609	UNR521400L	TRANSISTOR	1	
Q611	B1ACND000003	TRANSISTOR	1	
Q612	2SD1819ARL	TRANSISTOR	1	
Q613	KTA2014GRRTK	TRANSISTOR	1	
Q614	UNR521F00L	TRANSISTOR	1	
Q615	B1BAAJ000003	TRANSISTOR	1	
Q616	UNR511100L	TRANSISTOR	1	
Q617	2SD1819ARL	TRANSISTOR	1	
Q618, 19	UNR521F00L	TRANSISTOR	2	
Q620, 21	UNR511100L	TRANSISTOR	2	
Q651	2SD1819ARL	TRANSISTOR	1	
Q700	2SB0709A0L	TRANSISTOR	1	
Q801, 02	2SD1819ARL	TRANSISTOR	2	
Q803	UNR521300L	TRANSISTOR	1	
Q804	UNR511100L	TRANSISTOR	1	
Q805, 06	UNR521F00L	TRANSISTOR	2	
Q807	UNR511F00L	TRANSISTOR	1	
Q808	UNR521F00L	TRANSISTOR	1	
Q822	UNR511000L	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, R7	ERJ3GEYJ104V	1/10W 100K	2	
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, 17	ERJ3GEYJ103V	1/10W 10K	2	
R18	ERJ3GEYJ223V	1/10W 22K	1	
R20	ERJ3GEYJ103V	1/10W 10K	1	
R22	ERJ3GEYJ103V	1/10W 10K	1	
R23-25	ERJ3GEYJ223V	1/10W 22K	3	
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	ERJ3GEYJ473V	1/10W 47K	1	
R102	ERJ3GEYJ562V	1/10W 5.6K	1	
R103	ERDS2TJ473T	1/4W 47K	1	
R104, 05	ERJ3GEYJ562V	1/10W 5.6K	2	
R106	ERDS2TJ682T	1/4W 6.8K	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	ERJ3GEYJ392V	1/10W 3.9K	1	(GCS)
R112	ERJ3GEYJ682V	1/10W 6.8K	1	(E) (EB) (EG) (GD)
R113	ERDS2TJ1R0T	1/4W 1	1	(GCS)
R113	ERDS2TJ222T	1/4W 2.2K	1	(E) (EB) (EG) (GD)
R201	ERJ3GEYJ473V	1/10W 47K	1	
R202	ERJ3GEYJ562V	1/10W 5.6K	1	
R203	ERDS2TJ473T	1/4W 47K	1	
R204, 05	ERJ3GEYJ562V	1/10W 5.6K	2	
R206	ERDS2TJ682T	1/4W 6.8K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
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	ERJ3GEYJ392V	1/10W 3.9K	1	(GCS)
R212	ERJ3GEYJ682V	1/10W 6.8K	1	(E) (EB) (EG) (GD)
R213	ERDS2TJ1R0T	1/4W 1	1	(GCS)
R213	ERDS2TJ222T	1/4W 2.2K	1	(E) (EB) (EG) (GD)
R301-04	ERJ3GEYJ223V	1/10W 22K	4	
R305	ERJ3GEYJ103V	1/10W 10K	1	
R306-09	ERJ3GEYJ102V	1/10W 1K	4	
R312, 13	ERJ3GEYJ102V	1/10W 1K	2	
R316	ERDS2TJ334T	1/4W 330K	1	
R317	ERJ3GEYJ334V	1/10W 330K	1	
R318, 19	ERDS2TJ330T	1/4W 33	2	
R320	ERJ3GEYJ332V	1/10W 3.3K	1	
R321	ERJ3GEYJ333V	1/10W 33K	1	
R322	ERJ3GEYJ470V	1/10W 47	1	
R323	ERJ3GEYJ331V	1/10W 330	1	
R324	ERJ3GEYJ102V	1/10W 1K	1	
R325	ERJ3GEYJ152V	1/10W 1.5K	1	
R402	ERJ3GEYJ392V	1/10W 3.9K	1	
R403	ERJ3GEYJ151V	1/10W 150	1	(E) (EB) (EG) (GD)
R403	ERJ3GEYJ221V	1/10W 220	1	(GCS)
R404, 05	ERD2FCVJ4R7T	1/4W 4.7	2	
R406	ERJ3GEYJ103V	1/10W 10K	1	
R408	ERJ8GEYJ100V	1/4W 10	1	
R409	ERJ3GEYJ273V	1/10W 27K	1	
R502	ERJ3GEYJ392V	1/10W 3.9K	1	
R503	ERJ3GEYJ151V	1/10W 150	1	(E) (EB) (EG) (GD)
R503	ERJ3GEYJ221V	1/10W 220	1	(GCS)
R504, 05	ERD2FCVJ4R7T	1/4W 4.7	2	
R506	ERJ3GEYJ103V	1/10W 10K	1	
R508	ERJ8GEYJ100V	1/4W 10	1	
R509	ERJ3GEYJ273V	1/10W 27K	1	
R601	ERJ3GEYJ682V	1/10W 6.8K	1	
R602	ERJ3GEYJ563V	1/10W 56K	1	
R603	ERJ3GEYJ104V	1/10W 100K	1	
R604	ERJ3GEYJ273V	1/10W 27K	1	
R605	ERJ3GEYJ102V	1/10W 1K	1	
R607	ERJ3GEYJ332V	1/10W 3.3K	1	
R608	ERJ3GEYJ333V	1/10W 33K	1	
R609	ERJ3GEYJ153V	1/10W 15K	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, 19	ERJ3GEYJ681V	1/10W 680	2	
R620	ERJ3GEYJ2R2V	1/10W 2.2	1	
R621, 22	ERDS2TJ1R0T	1/4W 1	2	
R623, 24	ERDS2TJ471T	1/4W 470	2	
R625, 26	ERDS2TJ121T	1/4W 120	2	
R627	ERDS2TJ221T	1/4W 220	1	
R628, 29	ERJ3GEYJ102V	1/10W 1K	2	
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, 36	ERJ3GEYJ222V	1/10W 2.2K	2	
R637	ERJ3GEYJ272V	1/10W 2.7K	1	
R638	ERJ3GEYJ153V	1/10W 15K	1	
R639	ERJ3GEYJ102V	1/10W 1K	1	
R640	ERJ3GEYJ153V	1/10W 15K	1	
R641	ERJ3GEYJ102V	1/10W 1K	1	
R642	ERJ3GEYJ821V	1/10W 820	1	
R643	ERJ3GEYJ273V	1/10W 27K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R651	ERJ3GEYJ104V	1/10W 100K	1	
R652	ERJ3GEYJ333V	1/10W 33K	1	
R704	ERDS2TJ5R6T	1/4W 5.6	1	
R705	ERJ3GEYJ562V	1/10W 5.6K	1	
R706, 07	ERJ3GEYJ822V	1/10W 8.2K	2	
R708	ERJ3GEYJ562V	1/10W 5.6K	1	
R710	ERJ3GEYJ101V	1/10W 100	1	
R711	ERJ3GEYJ822V	1/10W 8.2K	1	
R712	ERJ3GEYJ101V	1/10W 100	1	
R713	ERJ3GEYJ682V	1/10W 6.8K	1	
R714	ERJ3GEYJ223V	1/10W 22K	1	
R715	ERJ3GEYJ102V	1/10W 1K	1	
R716	ERJ3GEYJ332V	1/10W 3.3K	1	
R717	ERJ3GEYJ562V	1/10W 5.6K	1	
R718	ERJ3GEYJ5R6V	1/10W 5.6	1	
R719	ERJ3GEYJ683V	1/10W 68K	1	
R720	ERJ3GEYJ562V	1/10W 5.6K	1	
R721	ERJ3GEYJ4R7V	1/10W 4.7	1	
R722	ERJ3GEYJ563V	1/10W 56K	1	
R723	ERJ3GEYJ102V	1/10W 1K	1	
R724	ERJ3GEYJ332V	1/10W 3.3K	1	
R725	ERJ3GEYJ273V	1/10W 27K	1	
R726	ERJ3GEYJ102V	1/10W 1K	1	
R727	ERJ3GEYJ393V	1/10W 39K	1	
R728-30	ERJ3GEYJ562V	1/10W 5.6K	3	
R731	ERJ3GEYJ823V	1/10W 82K	1	
R732	ERJ3GEYJ821V	1/10W 820	1	
R733	ERJ3GEYJ5R6V	1/10W 5.6	1	
R734	ERJ3GEYJ101V	1/10W 100	1	
R735, 36	ERJ3GEYJ683V	1/10W 68K	2	
R737, 38	ERJ3GEYJ102V	1/10W 1K	2	
R739	ERJ3GEYJ683V	1/10W 68K	1	
R740	ERJ3GEYJ105V	1/10W 1M	1	
R741	ERJ3GEYJ101V	1/10W 100	1	
R742, 43	ERJ3GEYJ102V	1/10W 1K	2	
R744	ERJ3GEY0R00V	1/10W 0	1	
R747-50	ERJ3GEYJ683V	1/10W 68K	4	
R751	ERJ3GEY0R00V	1/10W 0	1	
R801	ERJ3GEYJ1R0V	1/10W 1	1	
R802	ERJ3GEYJ823V	1/10W 82K		
R803	ERJ3GEYJ124V	1/10W 120K	1	
R804	ERJ3GEYJ104V	1/10W 100K	1	
R805	ERJ3GEYJ102V	1/10W 1K	1	
R807, 08	ERJ3GEYJ332V	1/10W 3.3K	2	
R809	ERJ3GEYJ224V	1/10W 220K	1	
R810	ERDS2TJ271T	1/4W 270	1	
R811	ERJ3GEYJ473V	1/10W 47K	1	
R812	ERDS2TJ102T	1/4W 1K	1	
R813-16	ERJ3GEYJ102V	1/10W 1K	4	
R817	ERJ3GEYJ183V	1/10W 18K	1	
R818	ERJ3GEYJ103V	1/10W 10K	1	
R819	ERJ3GEYJ472V	1/10W 4.7K	1	
R820	ERJ3GEYJ103V	1/10W 10K	1	
R821-23	ERJ3GEYJ102V	1/10W 1K	3	
R824	ERJ3GEYJ224V	1/10W 220K	1	
R825	ERJ3GEYJ152V	1/10W 1.5K	1	
R826	ERJ3GEYJ1R0V	1/10W 1	1	(E)(EB)(EG)
R826	ERJ3GEYJ222V	1/10W 2.2K	1	(GCS)(GD)
R827	ERJ3GEYJ472V	1/10W 4.7K	1	
R828	ERDS2TJ102T	1/4W 1K	1	
R829	ERJ3GEYJ102V	1/10W 1K	1	
R830, 31	ERJ3GEYJ104V	1/10W 100K	2	
R832	ERJ3GEYJ153V	1/10W 15K	1	
R833	ERJ3GEYJ104V	1/10W 100K	1	
R835-37	ERJ3GEYJ103V	1/10W 10K	3	
R840	ERJ3GEYJ153V	1/10W 15K	1	
R841	ERDS2TJ121T	1/4W 120	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	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R852	ERJ3GEYJ153V	1/10W 15K	1	
R860, 61	ERJ3GEYJ104V	1/10W 100K	2	
R862	ERJ3GEYJ102V	1/10W 1K	1	
R864, 65	ERJ3GEYJ102V	1/10W 1K	2	
R866	ERDS2TJ121T	1/4W 120	1	
R867	ERDS2TJ391T	1/4W 390	1	
R873	ERJ3GEYJ271V	1/10W 270	1	
R874	ERDS2TJ181T	1/4W 180	1	
R901	ERDS2TJ102T	1/4W 1K	1	
R1003	ERJ3GEYJ680V	1/10W 68	1	
R1004	ERJ3GEYJ271V	1/10W 270	1	
RJ51	ERJ3GEY0R00V	1/10W 0	1	
RJ601	ERJ3GEY0R00V	1/10W 0	1	
RJ801-03	ERJ3GEY0R00V	1/10W 0	3	
S351, 52	K0L1BB000005	SW, CD DETECTION	2	
S700	K0L1BA0000109	SW, REST DETECTION	1	
S801-08	EVQ21405R	SW, OPERATION	8	
T1	G2BAC0000053	IFT	1	(GCS)(GD)
T1	G2BAC0000054	IFT	1	(E)(EB)(EG)
T901	G4C4ACG00001	POWER TRANSFORMER	1	(GD) △
T901	G4C4ACK00001	POWER TRANSFORMER	1	(E)(EB)(EG) (GCS) △
W1	RWJ0210127SS	WIRE(10P)	1	
W2	REX1211	WIRE(2P)	1	
W351	REX1208	WIRE(8P)	1	
W901	REX1212	WIRE(4P)	1	
W902	RWJ9004120SS	WIRE(4P)	1	
W1001	RWJ9002090SS	WIRE(2P)	1	
W1002	RWJ9005100SS	WIRE(5P)	1	
W1003	REX1210	WIRE(2P)	1	
W1004	REX1209	WIRE(2P)	1	
X1	J0B1075A0112	DISCRIMINATOR	1	
X2	H0A750200010	CRYSTAL OSC.	1	
X700	H2A169500008	CRYSTAL OSC.	1	
X801	EF0MN8004T4	CRYSTAL OSC.	1	
X802	H0A327200097	CRYSTAL OSC.	1	
Z801	REQ0357	LCD (L5ACAHC00010)	1	
Z1001	B3RAD0000074	SENSOR	1	

19.2. SB-EN17P

Note:

- E/EB/EG/GD areas: SB-EN17P

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	L0AA08A00010	SPEAKER	1	
2	RFKGBEN17P-S	SP FRONT CAB ASS'Y	1	
2-1	RMGW0001-H	SPEAKER CATCHER	4	
3	RFKHBEN17PAS	SP BACK CAB L ASS'Y	1	
3	RFKHBEN17PBS	SP BACK CAB R ASS'Y	1	
3-1	RKAW0012-K	LEG FELT	4	
4	RYB0328	PREPARED NET FRAME	1	
5	XTV3+12GFJ	SCREW	11	

19.3. SB-EN17GCS

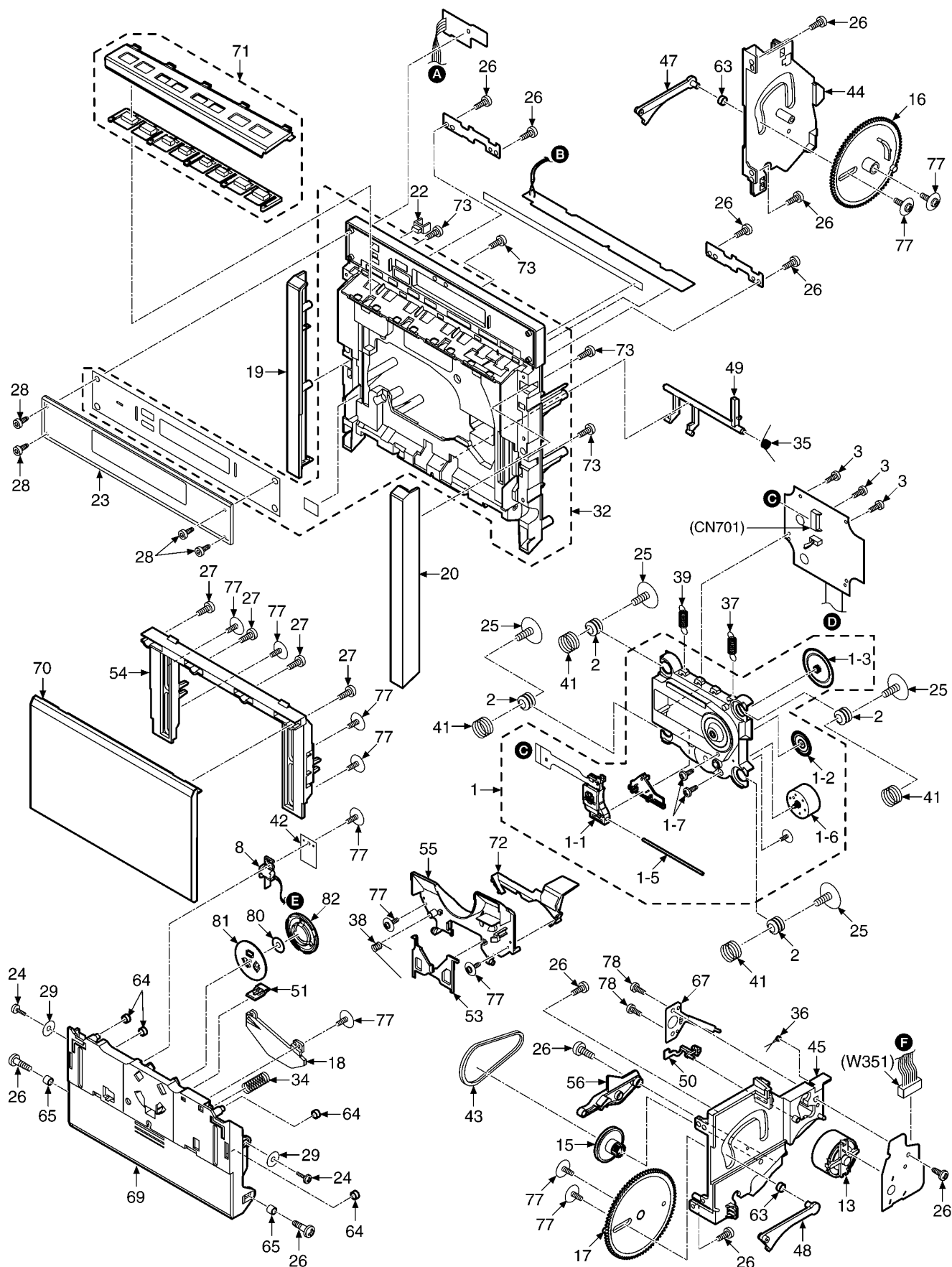
Note:

- GCS area: SB-EN17GCS

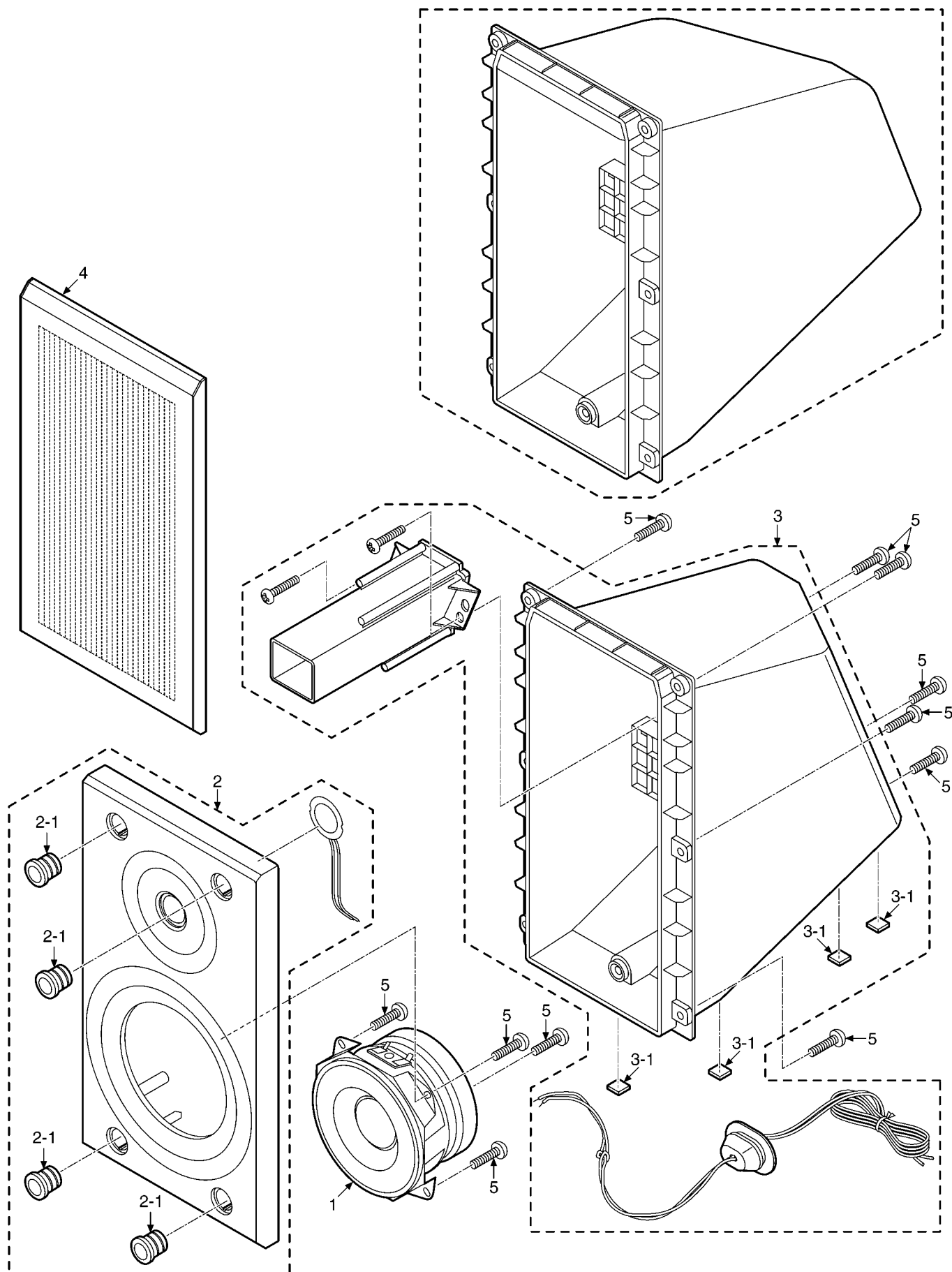
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	L0AA08A00012	SPEAKER	1	
2	RFKGBEN17P-S	SP FRONT CAB ASS'Y(L/R)	1	
2-1	RMGW0001-H1	SPEAKER CATCHER	4	
3	RFKHBEN17GAS	SP BACK CAB L ASS'Y	1	
3	RFKHBEN17GBS	SP BACK CAB R ASS'Y	1	
3-1	RKAW0012-K	LEG FLET	4	
4	RYB0328	PREPARED NET FRAME	1	
5	XTV3+12GFJ	SCREWS	12	

20 Cabinet Parts Location

20.1. SA-EN17



20.2. SB-EN17



21 Packaging

