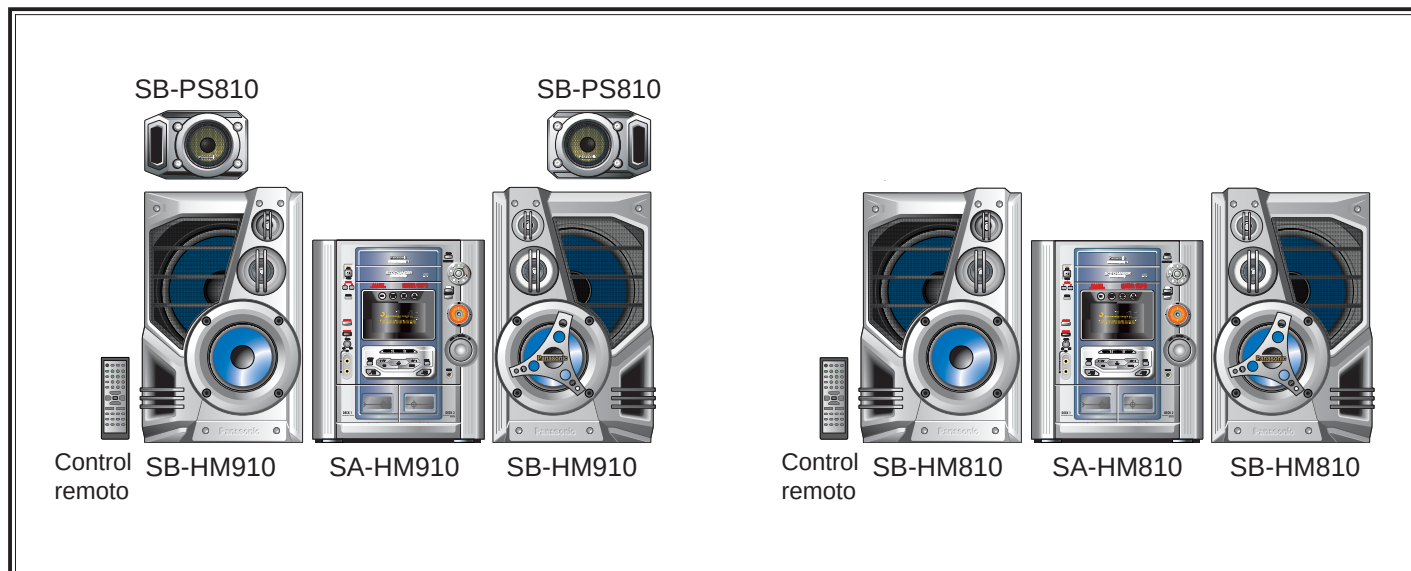


Service Manual

Stereo system

SC-HM910**SC-HM810**

MODEL	UNIT	
SC-HM910	SA-HM910	Stereo
	SB-HM910	Front Speaker
	SB-PS810	Surround Speaker
SC-HM810	SA-HM810	Stereo
	SB-HM810	Front Speaker



ESPECIFICACIONES

POTENCIA DE SALIDA (AMPLIFICADOR)				
SA-HM810	Front	(Low)	114 W	RMS per channel (6 Ω), 80 Hz , 10% DAT
		(High)	54 W	RMS per channel (6 Ω), 1 kHz , 10% DAT
	Surround		32 W	RMS per channel (8 Ω), 1 kHz , 10% DAT
SA-HM910	Front	(Low)	130 W	RMS per channel (6 Ω), 80 Hz , 10% DAT
		(High)	70 W	RMS per channel (6 Ω), 1 kHz , 10% DAT
	Surround		50 W	RMS per channel (8 Ω), 1 kHz , 10% DAT
	Subwoofer		100 W	RMS (8 Ω), 80 Hz , 10 % DAT

Notes:

1. All the information are subject to change without notice.
2. Weigth and dimensions are approximate.

Panasonic

COMPACT
disc
DIGITAL AUDIO

AMPLIFIER	SA-HM810	SA-HM910
Power output:	4700 W PMPO	7500 W PMPO
Power consumption:	190 W	280 W
Supply:	127 V ca ±10% 60 Hz	
Input sensitivity:	250 mV	
Frecuency range AM:	520 - 1710 kHz (10 kHz steps)	
Frecuency range FM:	87,5 - 108,0 MHz (0,1 MHz steps) 87,9 - 107,9 MHz (0,2 MHz steps)	
Dimensions (b x h x l):	360 mm x 425 mm x 340 mm	
Weight:	9,7 kg aprox.	9,8 Kg aprox.

SPEAKERS	INPUT IMPEDANCE	DIMENSIONS (b x h x l)	WEIGHT
SB-HM910 FRONT		355 mm x 560 mm x 340 mm	9,2 Kg aprox.
Super Tweeter 3 cm	---	---	---
Tweeter 6 cm	---	---	---
Woofers 17 cm	---	---	---
Super Woofers 30 cm	---	---	---
(High)	6 Ω	---	---
(Low)	6 Ω	---	---
SB-PS810 SURROUND			
Full Range 10 cm	8 Ω	205 mm x 145 mm x 160 mm	1,3 Kg aprox.

SPEAKER	SB-HM810
Input impedance:	6 Ω
Super Tweeter:	3 cm
Tweeter:	6 cm
Woofers:	17 cm
Super Woofers:	25 cm
Dimensions (b x h x l):	355 mm x 560 mm x 340 mm
Weight:	8,9 kg aprox.

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 Safety Precaution

1. Before Servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacture's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

1.1 Insulation Resistance Test

1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumper AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc.
Equipment with antenna terminals should read between $2.7\text{M}\Omega$ and $3.9\text{M}\Omega$ to all exposed parts* (Fig.1).
Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig.2).
*Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.
4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

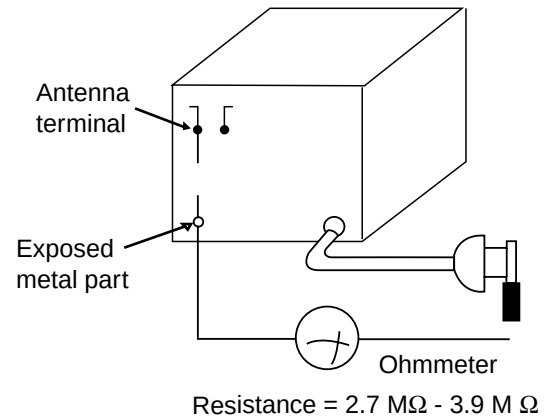


Fig. 1

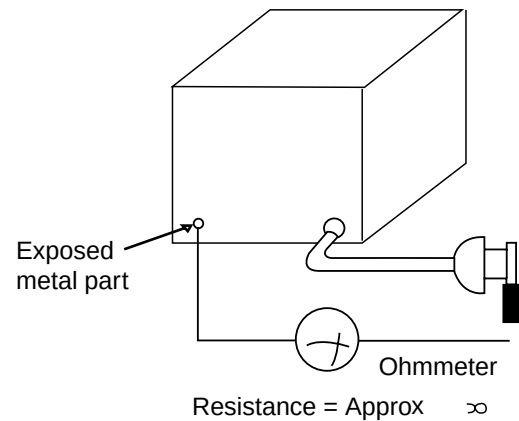


Fig. 2

2 Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors POWER PCB SC-HM910 C556, C557, C558, C559, C561, POWER PCB SC-HM810 C531, C532, C533, C534 and TRANSFORMER PCB SC-HM910 C705, TRANSFORMER PCB SC-HM810 C402 through a $10\ \Omega$, 5W resistor to ground.

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this way destroy solid state devices. After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at AC 127V, 60Hz in NO SIGNAL mode should be $\sim 800\text{mA}$.

3 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.
- Sound stops 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 systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

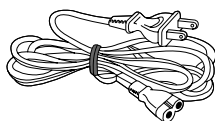
1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note:

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

4 Accessories

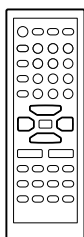
Cable de alimentación (SJA168-1A) 1 pza.



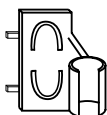
Antena FM (N1EAYY000004) 1 pza.



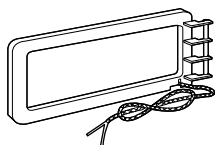
Control Remoto (N2QAHB000037) 1 pza.



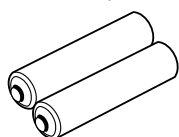
Soporte de la Antena AM (RMN0244) 1 pza.



Antena AM (RSAM0002) 1 pza.

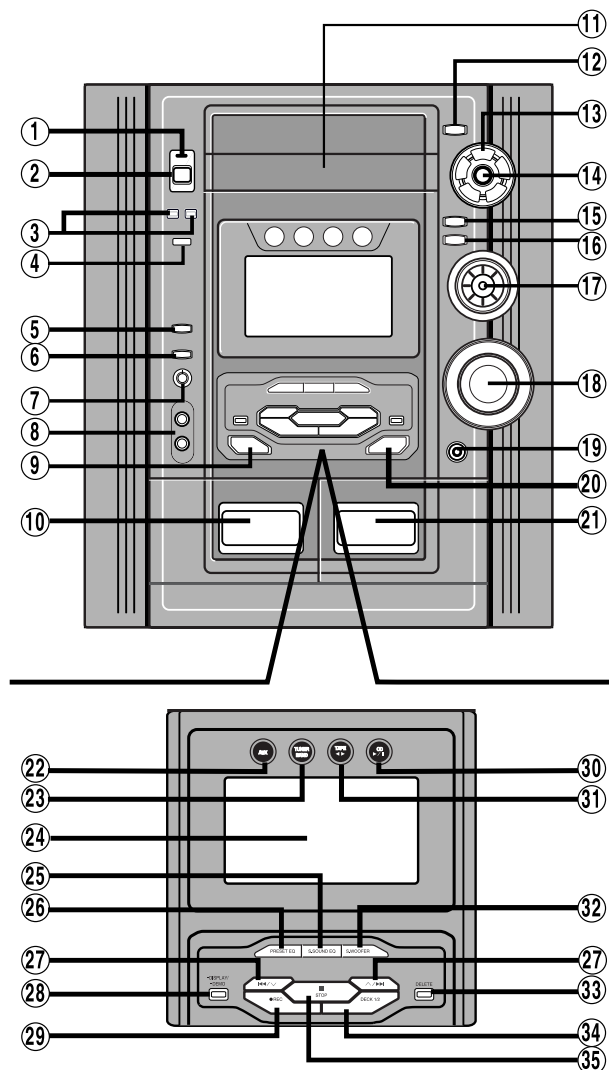


Baterías para el control remoto (UM-3PA) 2 pzas.



5 Front panel controls

Unidad principal



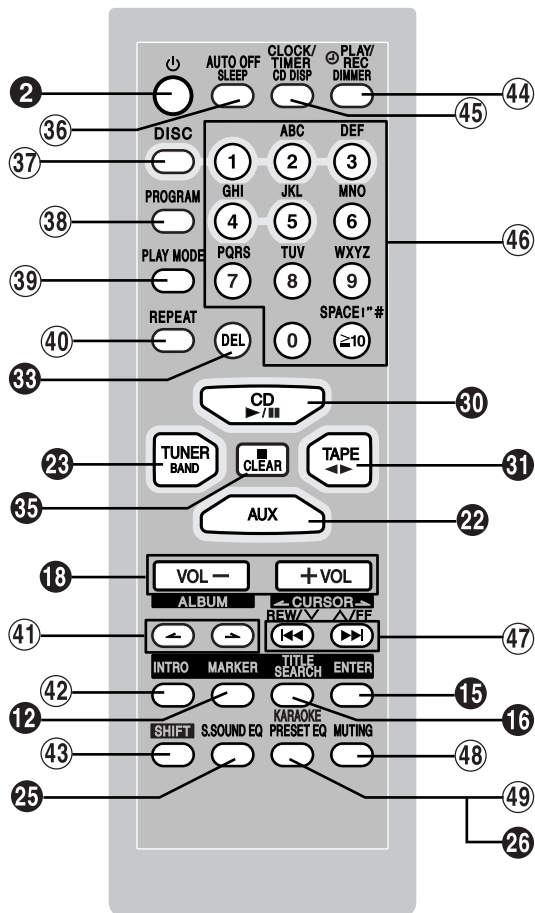
No.	Nombre	Pág.
①	(AC IN)	Indicador de alimentación (Este indicador se encenderá cuando el Sistema Estéreo esté conectado).
②	(ON/OFF , POWER)	Botón de encendido y modo de espera (En modo de espera, el Sistema Estéreo consume una pequeña cantidad de corriente eléctrica).
③	(RHYTHM 1, 2)	Botones para activar los ritmos de ambientación
④	(SENSOR)	Sensor de señal para el control remoto
⑤	(APPLAUSES)	Botón para activar el efecto de aplausos
⑥	(EXPLOSION)	Botón para activar el efecto de explosión
⑦	(MIC VOL)	Control de volumen del micrófono
⑧	(MIC 1, 2)	Entradas para micrófono
⑨	(DECK 1, OPEN)	Botón para abrir el compartimento de reproducción de cinta
⑩	(DECK 1)	Compartimento para la reproducción de cinta
⑪	Charola para discos compactos	
⑫	(MARKER)	Botón para marcar las melodías
⑬	(1 - 5)	Botones indicadores y de acceso directo para la reproducción de discos compactos
⑭	(OPEN/CLOSE)	Botón para abrir / cerrar la charola de discos compactos
⑮	(ENTER)	Botón para introducción
⑯	(TITLE SEARCH)	Botón que permite seleccionar por título las melodías y álbumes
⑰	Perilla	Selector de melodías y álbumes MP3/WMA
⑱	(VOLUME DOWN, UP)	Control de volumen
⑲	(HEADPHONES)	Salida de audífonos
⑳	(DECK 2, OPEN)	Botón para abrir el compartimento de reproducción y grabación de cinta
㉑	(DECK 2)	Compartimento para la reproducción y grabación de cinta

Consola central

㉒	(AUX)	Botón para reproducción de la unidad auxiliar
㉓	(TUNER, BAND)	Botón para seleccionar la banda de emisoras de radio
㉔	Visualizador	
㉕	(S. SOUND EQ)	Botón para realzar la calidad del sonido
㉖	(PREFILTER EQ)	Botón selector del ecualizador prefijado
㉗	(SKIP , SKIP)	Botón para adelantar/atrasar los discos compactos/cintas, seleccionar emisoras, ajustar la hora
㉘	(-DISPLAY/-DEMO)	Botón selector del modo de visualización
㉙	(REPEAT)	Botón para grabación
㉚	(CD, STOP)	Botón para reproducción y pausa de discos compactos
㉛	(TAPE, STOP)	Botón para reproducción y dirección de cintas
㉜	(S.WOOFER)	Botón para el refuerzo de graves
㉝	(DELETE)	Botón para borrar
㉞	(DECK 1/2)	Botón selector de cintas
㉟	(STOP , STOP)	Botón para alto total y borrar melodías programadas

5 Front panel controls

Control remoto



Los números que se encuentran en círculo negro como ❷, son funciones que se pueden operar tanto en el Sistema Estéreo como en el control remoto y se encuentran referenciados en la página 6. Los botones que están en blanco como el ❸❶, son funciones que se realizan sólo por medio del control remoto.

No.	Nombre	Pág.
❸❶	(SLEEP, -AUTO OFF)	Botón para el temporizador programado y apagado automático
❸❷	(DISC)	Botón selector de discos compactos
❸❸	(PROGRAM)	Botón para programar melodías de discos compactos y preajustar emisoras
❸❹	(PLAY MODE)	Botón selector del modo de reproducción
❹❹	(REPEAT)	Botón para repetir melodías
❹❺	(↵, ↗, ALBUM)	Botones para cambiar de álbum
❹❻	(INTRO)	Botón de introducción
❹❼	(SHIFT)	Botón para usar las funciones etiquetadas en naranja; al presionar [SHIFT] presione también uno de los siguientes botones: [AUTO OFF], [CLOCK/TIMER], [⏮ PLAY/REC], [KARAOKE].
❹❹	(DIMMER, ☹ PLAY/REC)	Botón para opacar la iluminación y activar el temporizador de reproducción y grabación
❹❺	(CD DISP, CLOCK / TIMER)	Botón para seleccionar el modo de visualización y ajustar el reloj y el temporizador
❹❻	(≥ 10, 1-9, 0, A-Z, SPACE!\"#)	Botones numéricos y caracteres
❹❼	(⏮, REW/V, ⏪, CURSOR, ⏩, /FF, ⏭, CURSOR)	Botones de búsqueda de CD/rebobinado de cinta, sintonización/selección de emisoras preajustadas y ajuste de la hora
❹❹	(MUTING)	Botón para silenciar el volumen
❹❺	(KARAOKE)	Botón para activar los efectos de karaoke

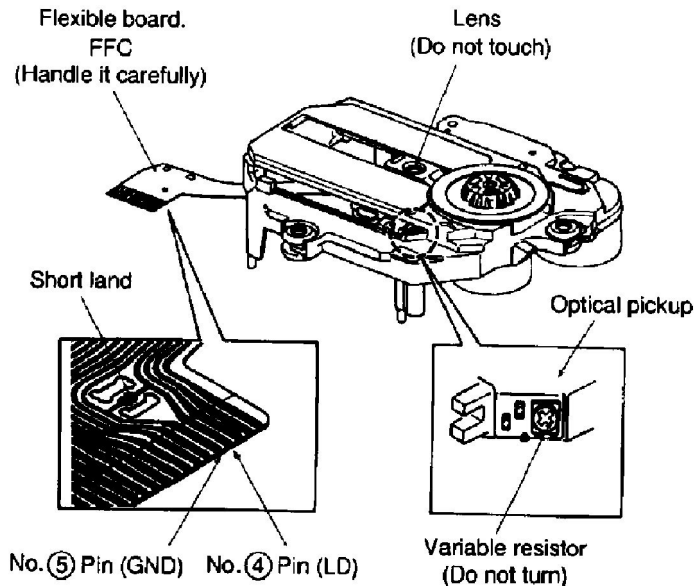
6 Handling Precautions For Traverse Deck

The laser diode in the traverse deck (optical pickup) may break down due to potential difference 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. The short land between the No. 4 (LD) and No. 5 (GND) pins on the flexible board (FFC) is shorted with a solder build-up to prevent damage to the laser diode. To connect to the PC board be sure to open by removing the solder build-up and finish the work quickly.
3. Take care not to apply excessive stress to the flexible board (FFC).
4. Do not turn the variable resistor (laser power adjustment). It has already been adjusted.



Grounding for electrostatic breakdown prevention

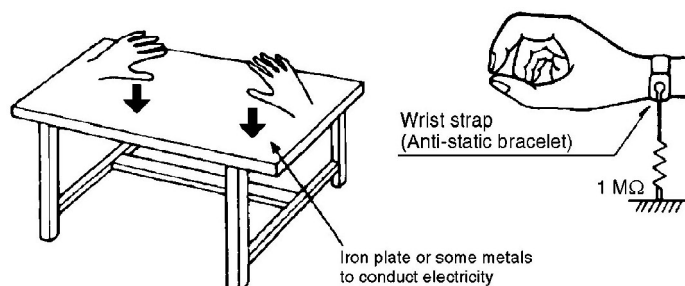
1. Human body grounding
Use the anti-static wrist strap to discharge the static electricity from your body.
2. Work table grounding
Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

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.



7 Operation Checks and Main Component Replacement Procedures

“ATTENTION SERVICER”

Some chassis components may have sharp edges.
Be careful when disassembling and servicing.

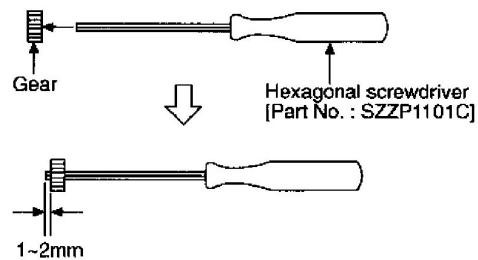
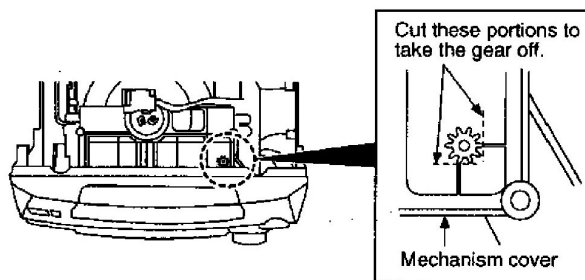
1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures.
Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.

Warning:

This product uses a laser diode. Refer to caution statement Precaution of Laser Diode.

Gear for servicing (jig) information

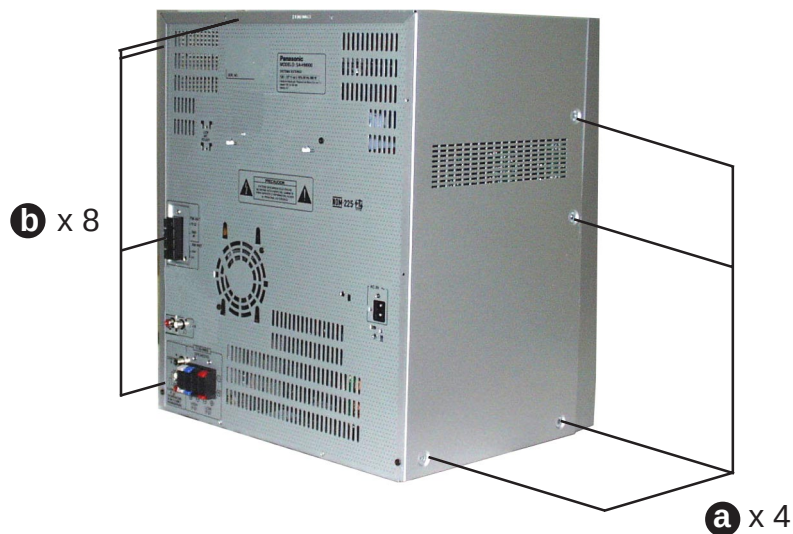
1. This unit has a gear which is used for checking items (open/close of disc tray, up/down operation of traverse unit by manually) when servicing.
 2. For preparation of gear (for servicing), Perform the procedures as follows.
 3. In case of re-servicing the same set, the “gear for servicing” may has been taken off because it has been used.
The “gear for servicing” must be stored.
1. Remove the gear provided with mechanism cover theas shown below.
 2. Insert the hexagonal screwdriver (2 mm) into the gear, and then project the tip of screwdriver for 1~2mm in length.



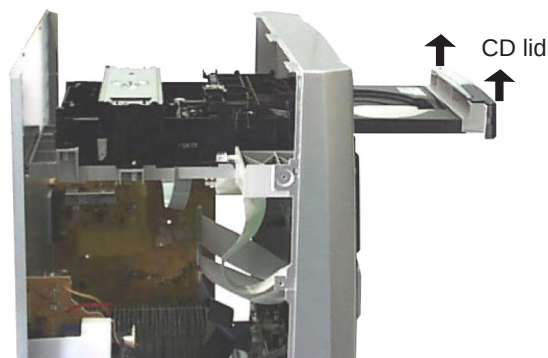
7.1 Disassembly and assembly main unit

Step 1 Remove 4 screws each side and 8 screws at rear panel.

Step 2 Lift up both sides of cabinet ass'y, push the cabinet ass'y toward the rear and remove the cabinet ass'y.



Step 5 Pull out the CD tray as shown and remove the CD lid. Push back the CD tray after the CD lid has been removed.

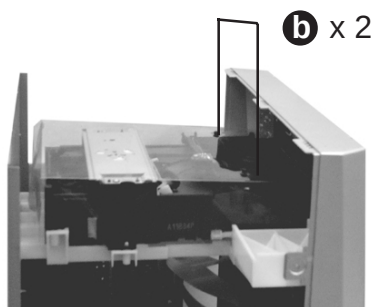


7.2 Disassembly for the CD changer ass'y

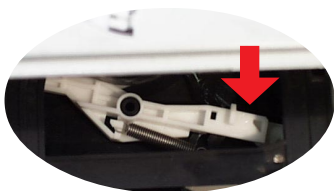
(The CD changer unit can be removed after the CD Lid is removed)

• Follow the (Step 1) (Step 2) of item 7.1.

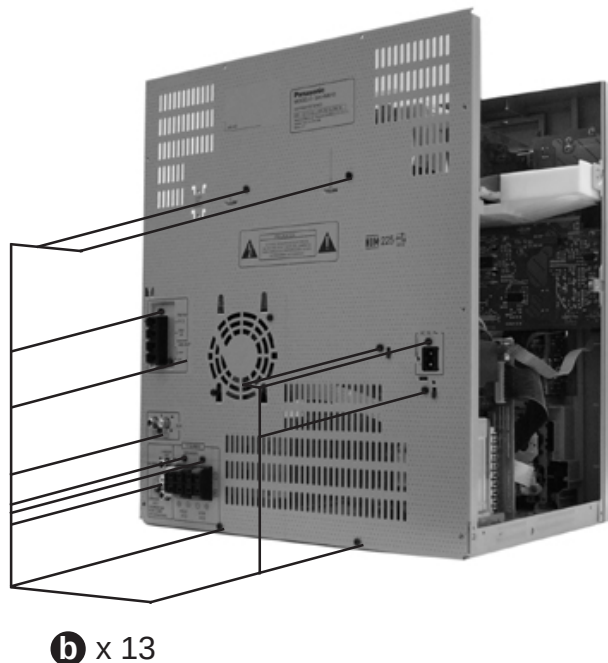
Step 3 Remove 2 screws and remove the dust cover.



Step 4 To open the CD tray, release the lever as show.



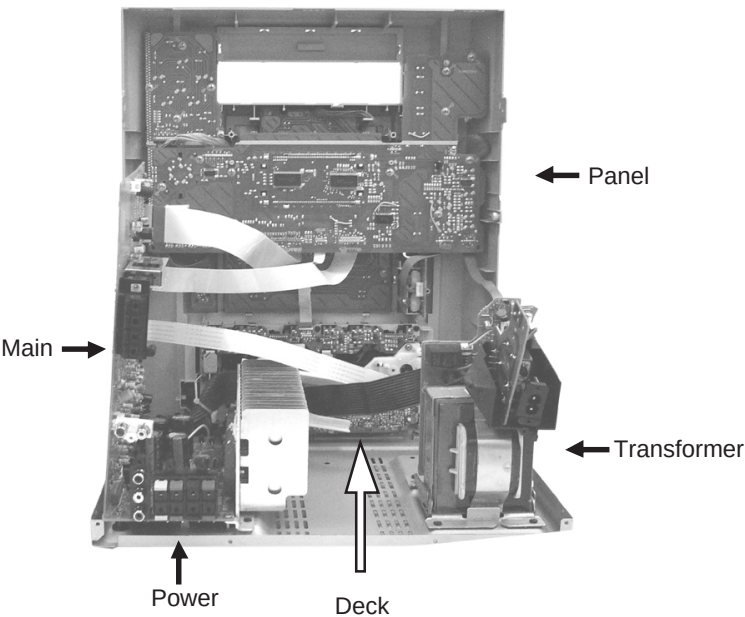
Step 6 Remove the screws.



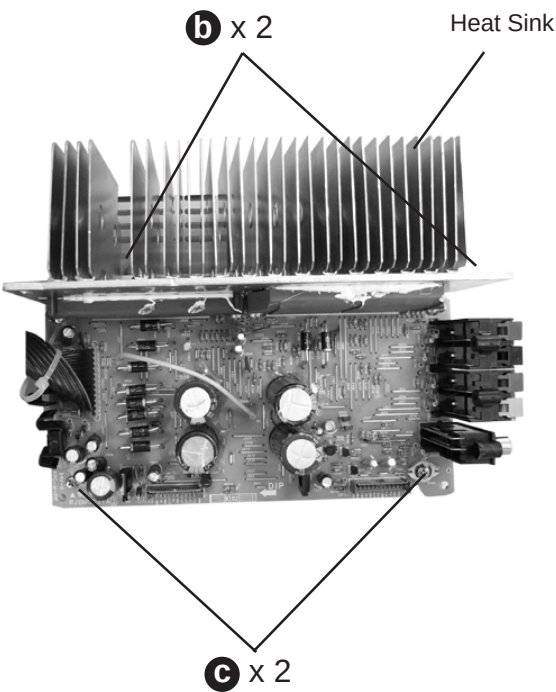
Step 7 Remove the wire CN309 and CN310 (main P.C.B.), release the 2 catches and remove the CD changer base together with the CD changer.



7.3 Checking for Main, Panel, Deck and Power P.C.B.



Step 8 Remove 4 screw.



- a** : RHD30002-H
- b** : XTBS3+8JFZ1-A
- c** : XTB3+20J-A

7.4 Main Component Replacement Procedures

7.4.1. Replacement of the Traverse Deck

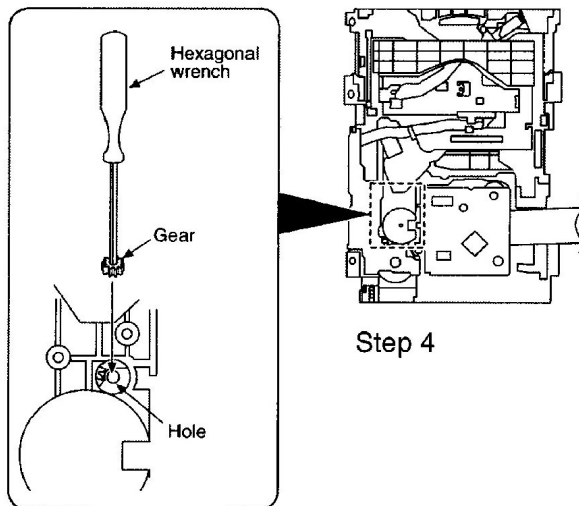
Step 1 Follow the (step 1) - (step 2) of item 7.1.



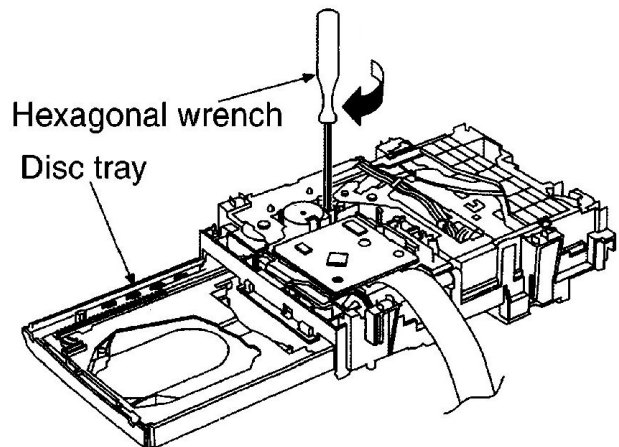
Step 2 Remove the wire CN309 and CN310 (main P.C.B.), release the 2 catches.

Step 3 Remove the CD changer unit.

(Back side)

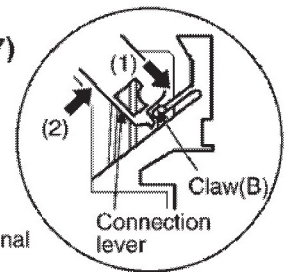


Step 4 Insert the gear with hexagonal wrench into the hole.



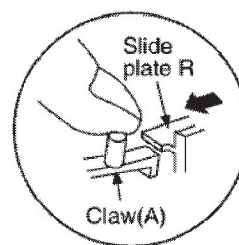
Step 5 Rotate the hexagonal wrench in the direction of arrow (clockwise), and then open the disc tray fully.

(Step 7)



Hexagonal wrench

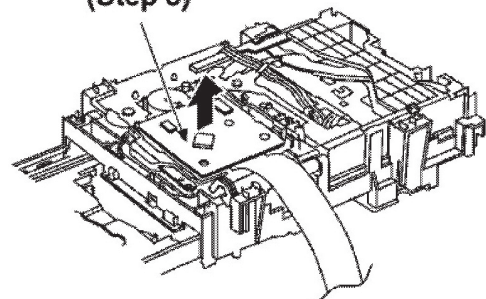
(Step 6)



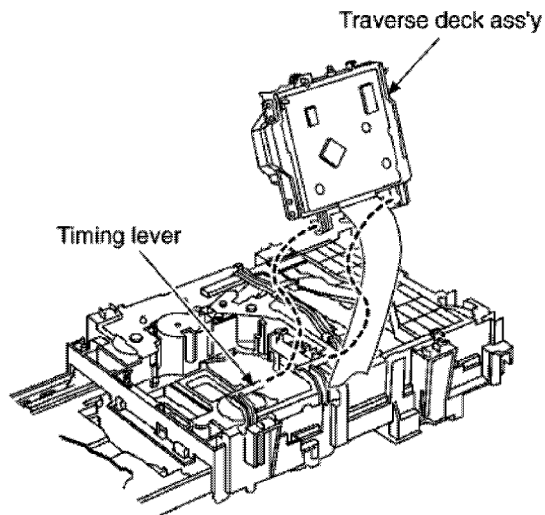
Step 6 With pressing the claw (A), rotate the hexagonal wrench clockwise. (The slide plate R moves for a little amount.)

Step 7 Pressing the claw (B) in the direction of arrow (1), the connection lever moves in the direction of arrow (2).

(Step 8)



Step 8 Lift up the traverse deck ass'y.

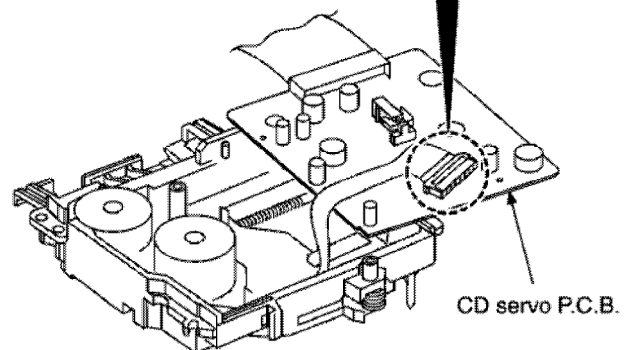
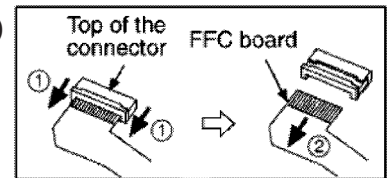


Step 9 Remove the traverse deck ass'y from the timing lever.

Caution:

When removing or inserting the traverse deck avoid touching the OPU lens and pressing onto the turntable.

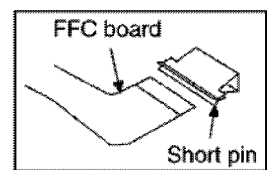
(Step 12)



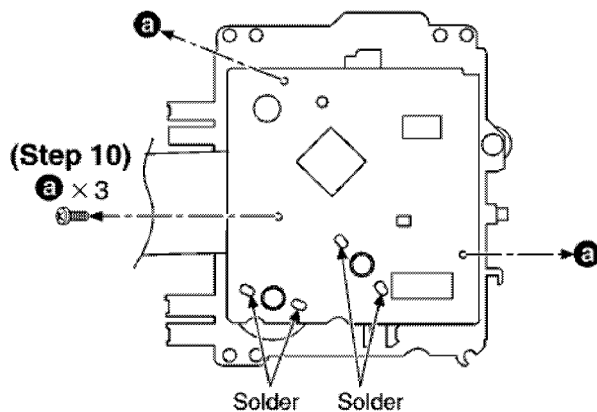
Caution:

Insert a short pin into the traverse unit FFC board.

(Refer to "Handling Precautions for Traverse Deck".)

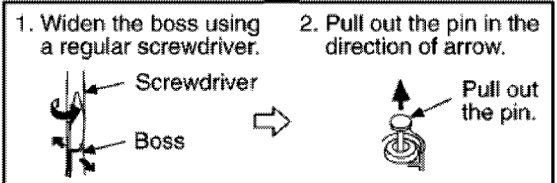
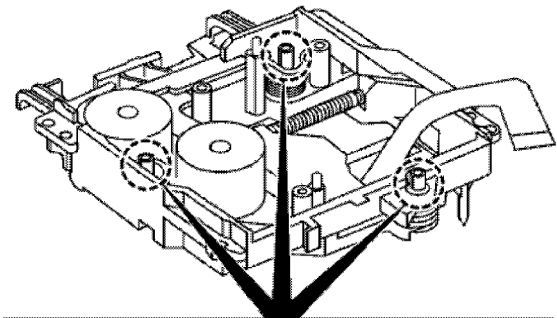


Step 12 Remove the FFC board from the connector, and then remove the CD Servo P.C.B.

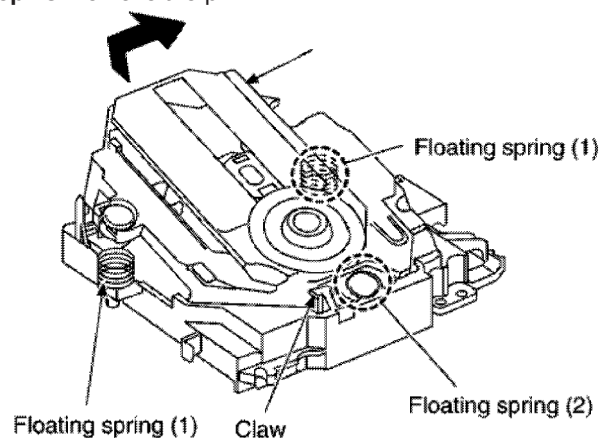


Step 10 Remove 3 screws.

Step 11 Unsolder the motor terminals (4 points).



Step 13 Remove the pin.



Step 14 Release the claw, and then remove the traverse deck ass'y

Note:

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

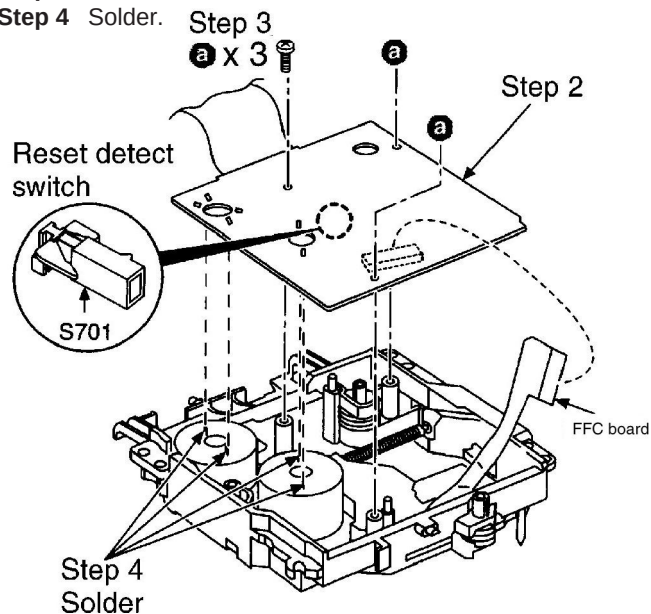
• **Installation of the CD Servo P.C.B. after replacement**

Step 1 Connect the FFC board.

Step 2 Install the CD servo P.C.B. in the traverse deck ass'y.

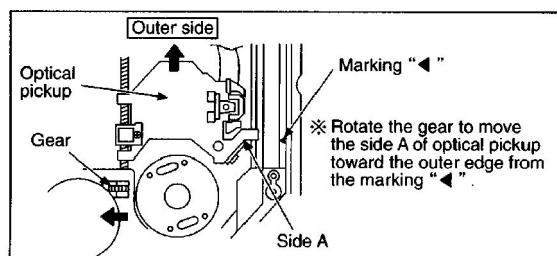
Step 3 Remove 3 screws.

Step 4 Solder.

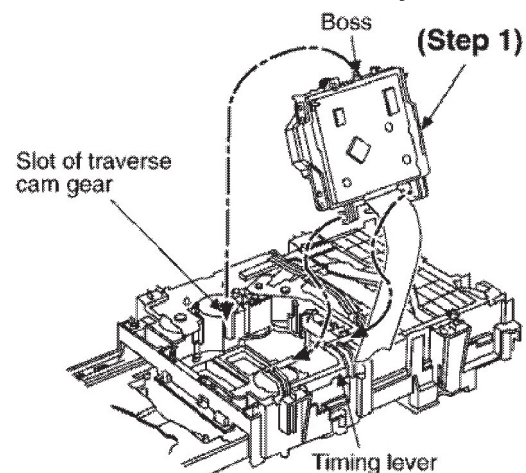


• **Note for installation of the CD servo P.C.B.**

Before installing the CD servo P.C.B., move the optical pickup toward the outer edge from the mark "◀". (Otherwise, the reset detect switch (S701) mounted on the CD servo P.C.B. may be damaged.)

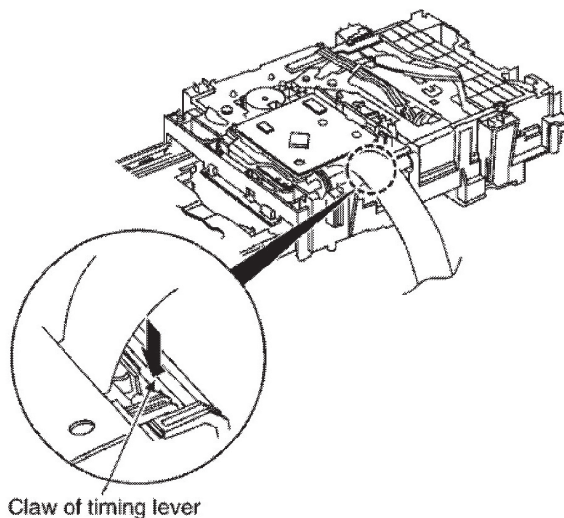


• **Installation for traverse deck ass'y**



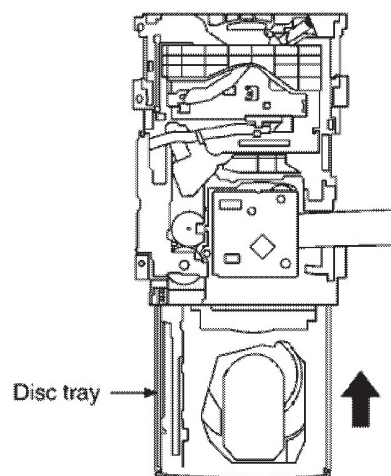
Step 1 Install the traverse deck ass'y to the timing lever.

Step 2 Align the boss of traverse deck ass'y with the slot of traverse cam gear.

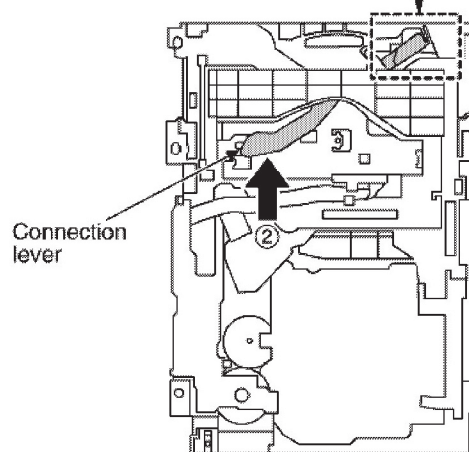
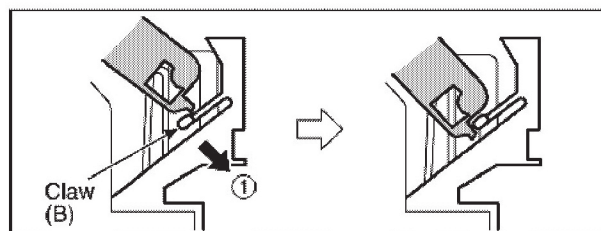


Claw of timing lever

Step 3 Force the claw of timing lever.



Step 4 Force the disc tray fully.

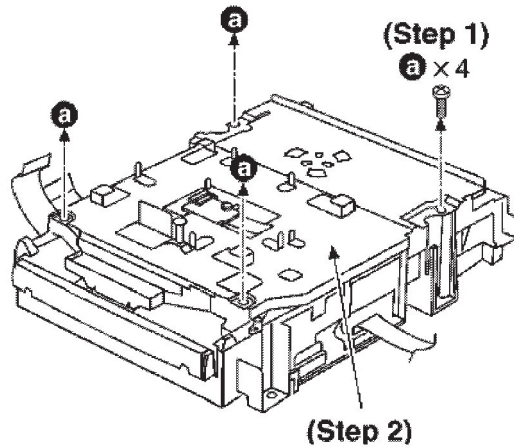


Step 5 With pressing the claw (B) in the direction of arrow (1), force the connection lever in the direction of arrow (2).

7.5 Replacement for the disc tray

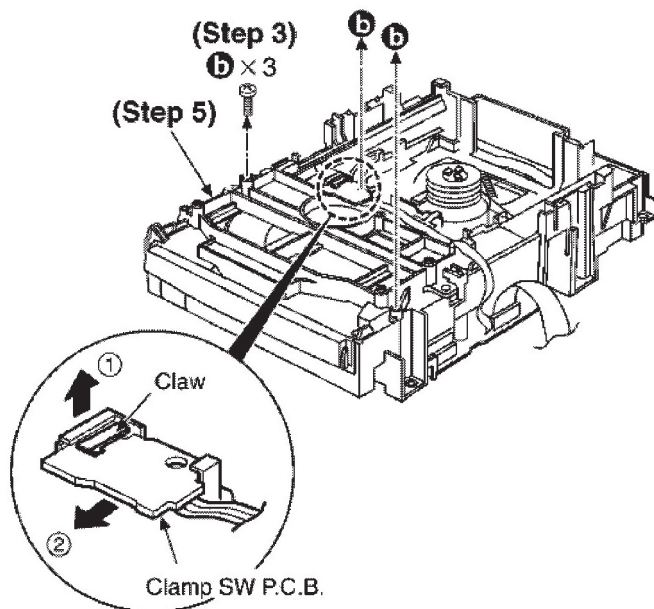
- Follow the (Step 1) - (Step 2) of item 7.1
- Follow the Disassembly for the CD changer of item 7.2.
- Follow the (Step 1) - (Step 8) of item 7.4.

Step 1 Remove 4 screws.



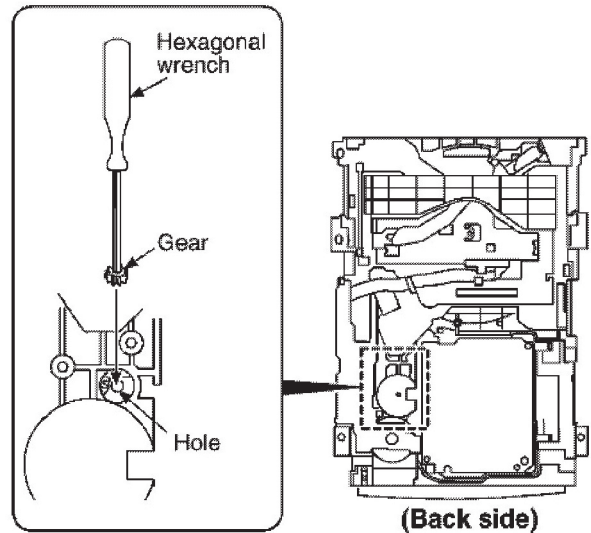
Step 2 Remove the upper plate.

Step 3 Remove 3 screws.

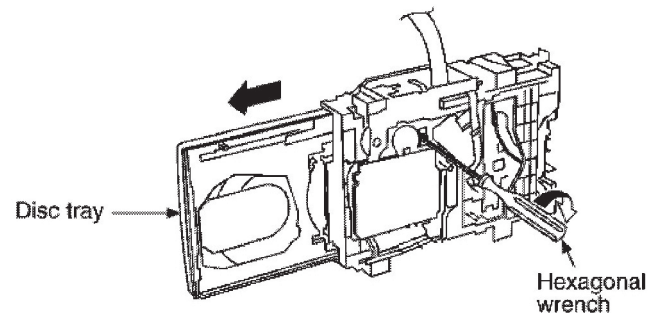


Step 4 With lifting the claw in the direction of (1), draw the clamp SW P.C.B. in the direction of arrow (2).

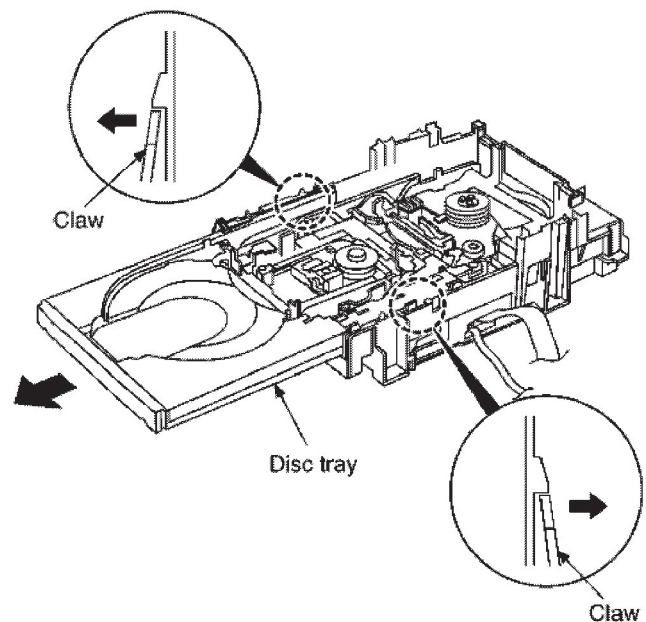
Step 5 Remove the mechanism cover.



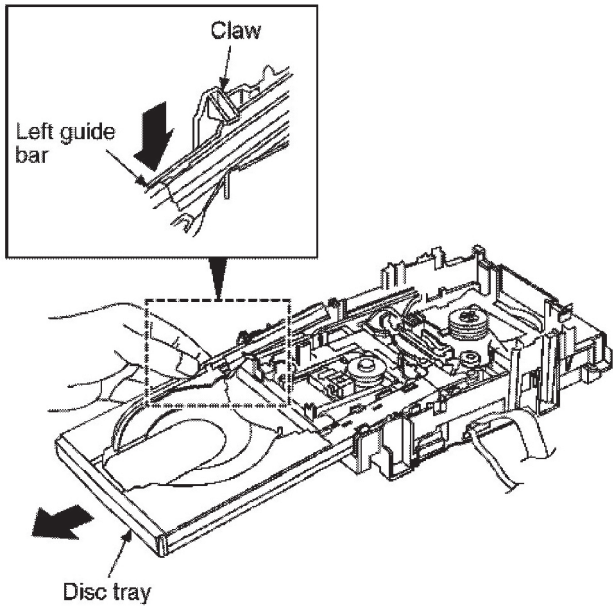
Step 6 Insert the gear with hexagonal wrench into the hole.



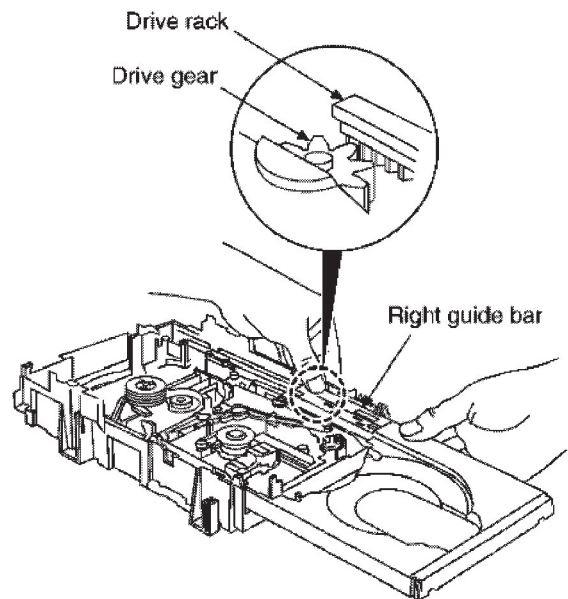
Step 7 Rotate the hexagonal wrench in the direction of arrow, and then open the disc tray fully.



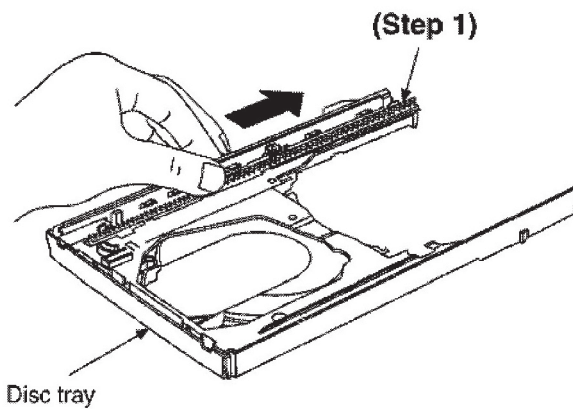
Step 8 Release the both claws, and then draw the disc tray.



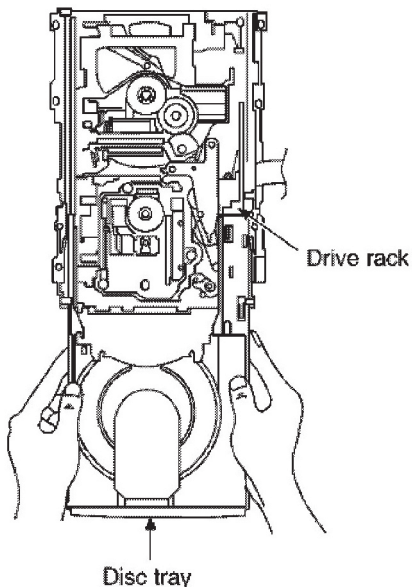
Step 9 With forcing the left guide bar manually because the left guide bar interferes with claw, draw the disc tray.
(Installation of the disc tray after replacement).



Note:
Force the right guide bar of tray base manually not to move upwards.

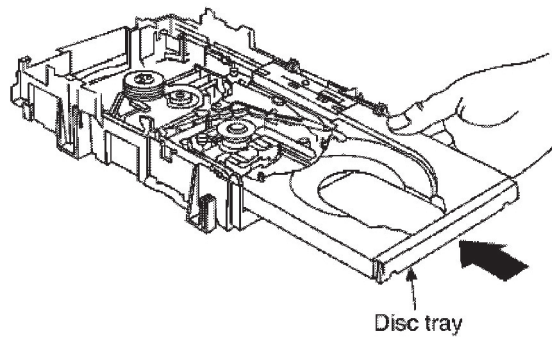


Step 1 Slide the drive rack fully in the direction of arrow:



Step 2 Holding the drive rack not to move, install the disc tray.

Step 3 Align the drive rack with the drive gear.

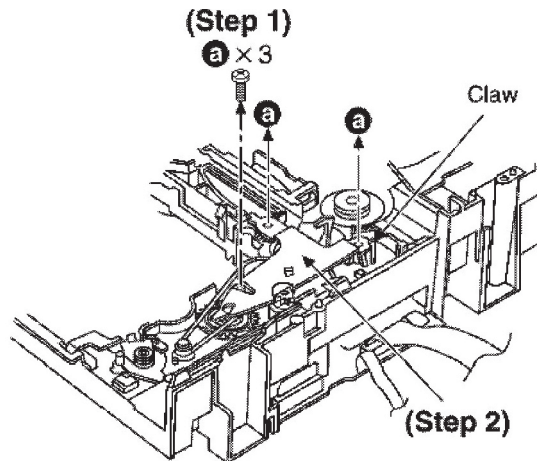


Step 4 Holding the disc tray manually, push the disc tray in the direction of the arrow.

7.6 Disassembly and reassembly for mechanism base drive unit

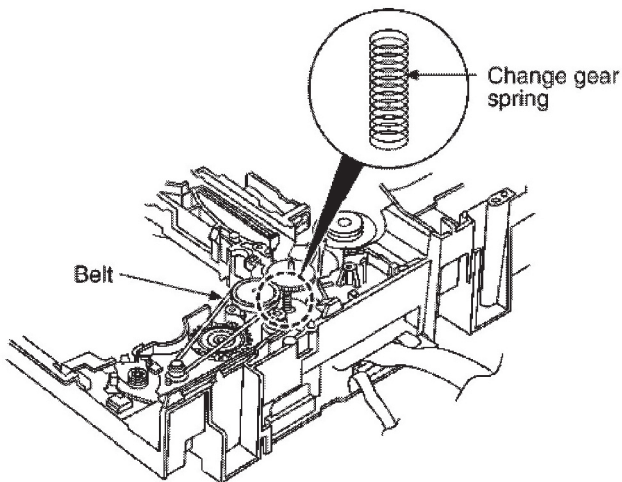
- Follow the (Step 1) - (Step 2) of item 7.1
- Follow the Disassembly for the CD changer of item 7.2.
- Follow the (Step 1) - (Step 14) of item 7.4.
- Follow the (Step 1) - (Step 9) of item 7.5

Step 1 Remove 3 screws.



Step 2 Release the claw, and then remove the gear holder.

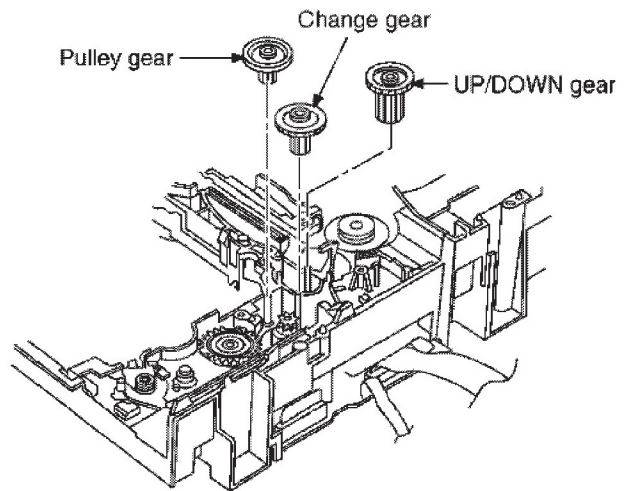
Step 3 Remove the belt and change gear spring.



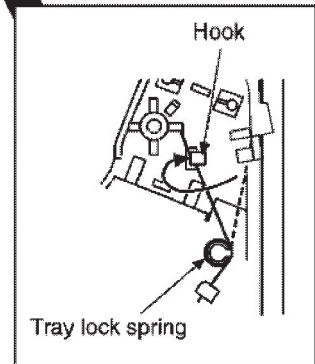
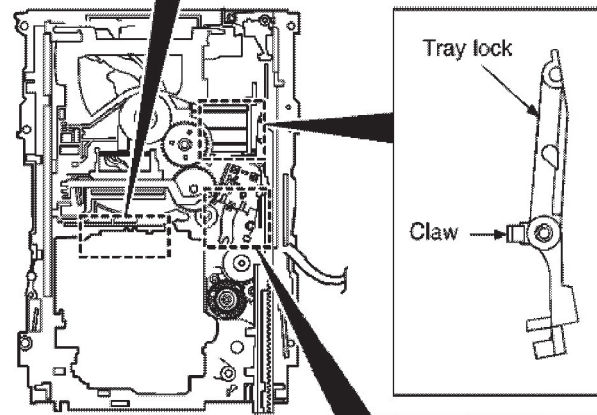
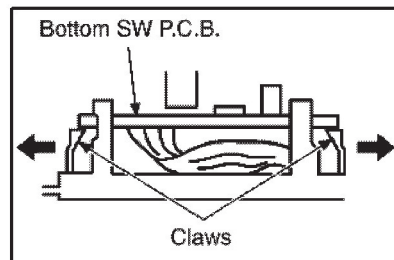
Note:

Take care not to lose the change gear spring.

Step 4 Remove the pulley gear, change gear and UP/DOWN gear.



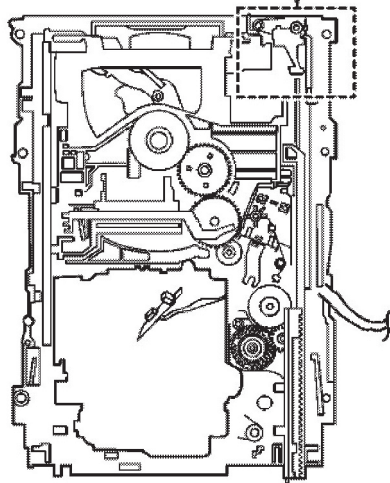
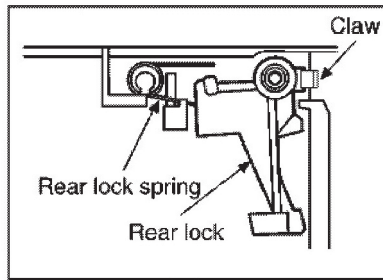
Step 5 Release the 2 claws, and then remove the bottom SW P.C.B.



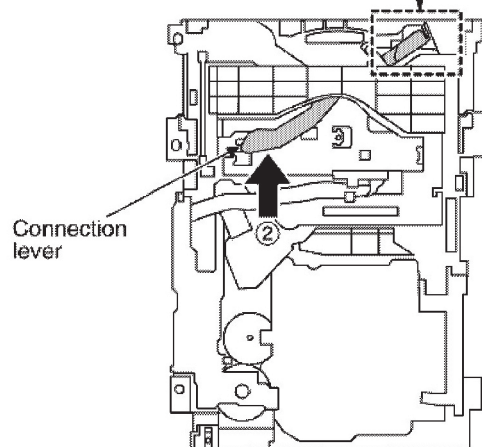
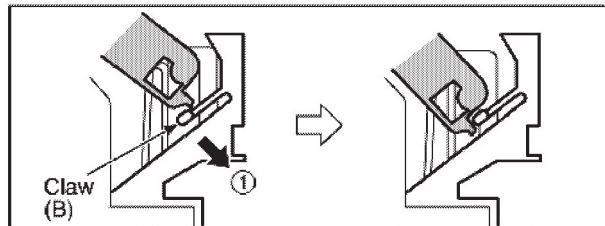
Step 6 Install the tray lock spring to hook temporary.

Step 7 Release the claw, and then remove the tray lock.

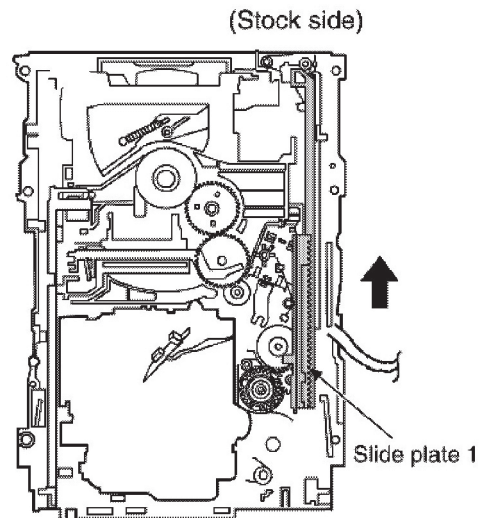
Step 8 Release the claw, and then remove the rear lock.



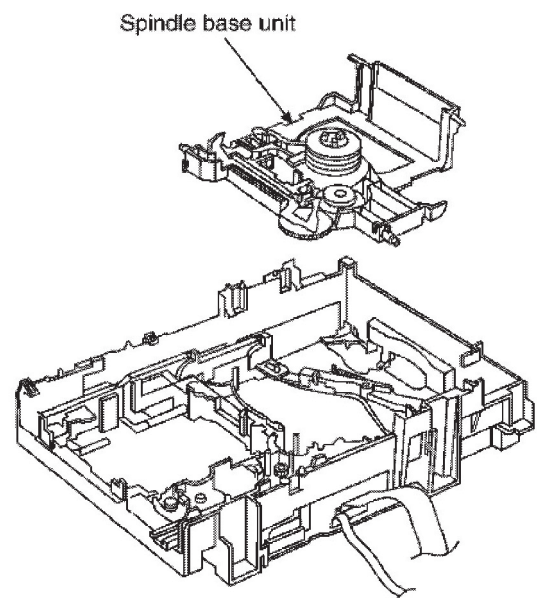
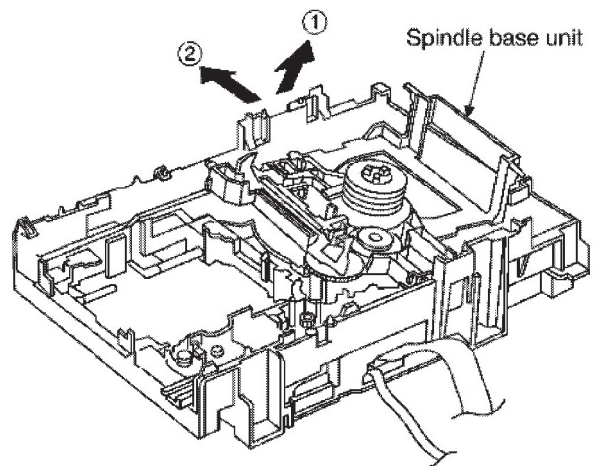
Step 9 Pressing the claw (B) in the direction of arrow (1), force the connection lever in the direction of arrow (2).



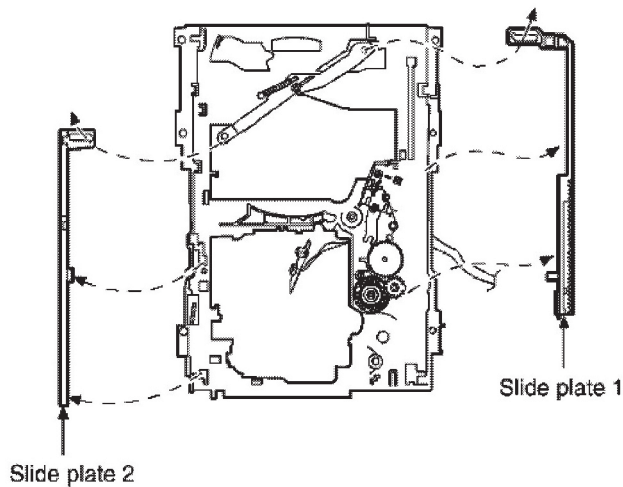
Step 10 Move the slide plate 1 to the end of stock side.



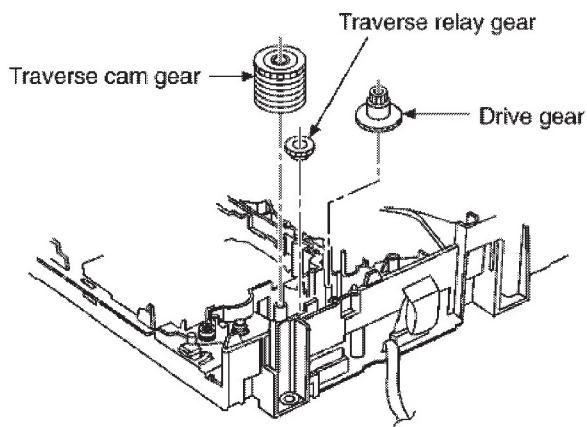
Step 11 Lift up the left end of spindle base unit in the direction of arrow (1), and then remove the unit in the direction of arrow (2).



Step 12 Remove slide plate 1 and slide plate 2.

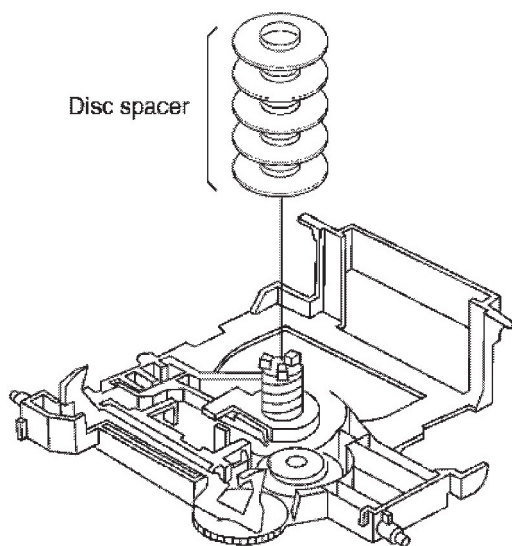


Step 13 Remove the traverse relay gear, traverse cam gear and drive gear.

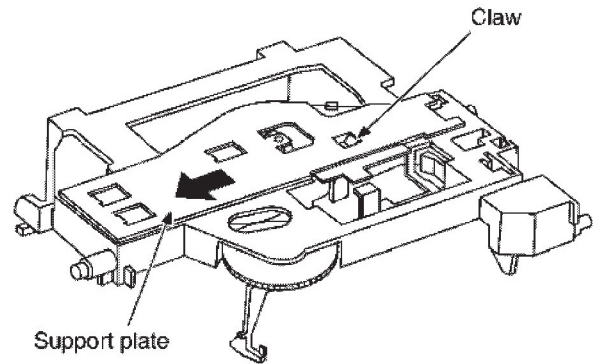


(Disassembly/reassembly for the spindle base unit)

Step 1 Draw the 5 disc spacers.

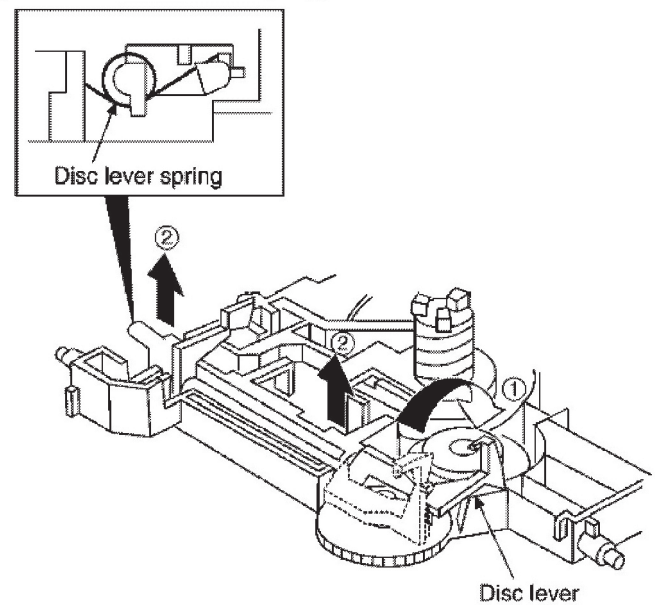


Step 2 Pushing the claw, slide the support plate in the direction of arrow, and then remove it.



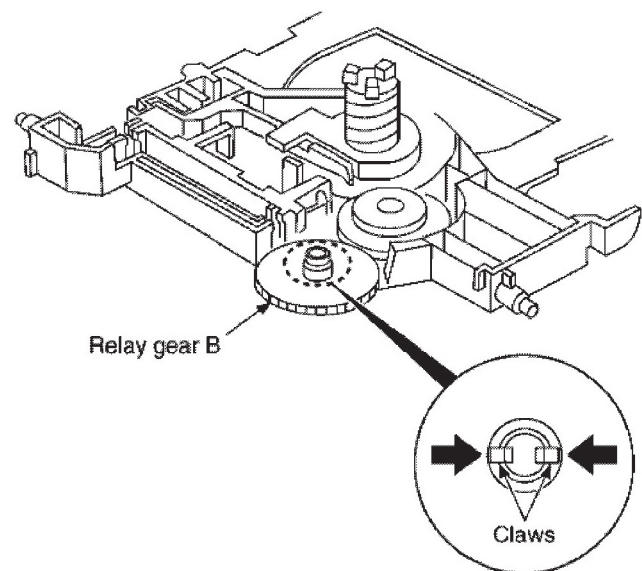
Step 3 Rotate the disc lever in the direction of arrow (1), draw the disc lever.

(Installation for disc lever spring)



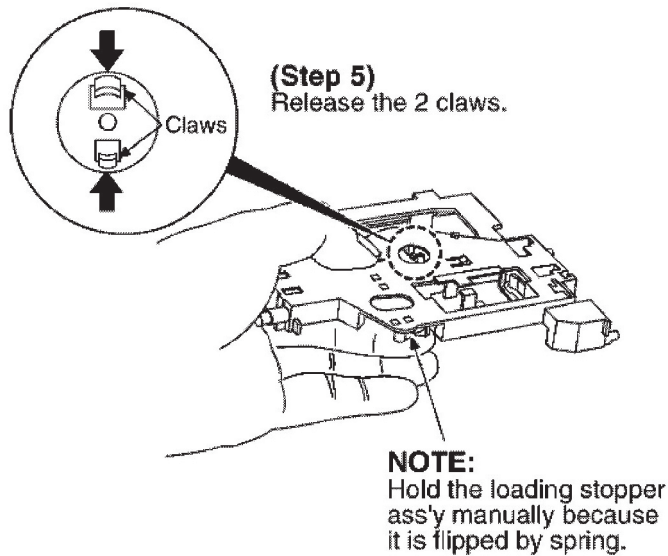
Note:

Take care not to lose the disc lever spring.

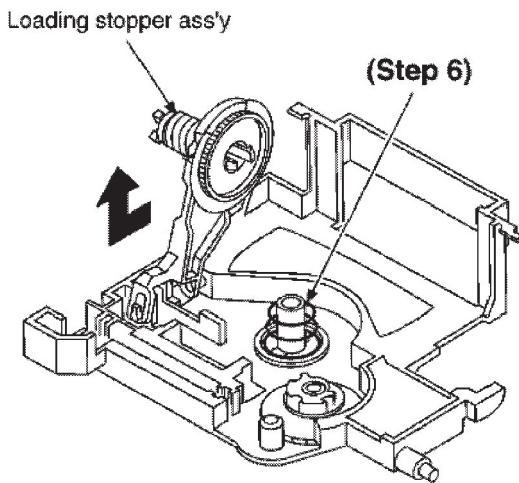


Step 4 Release the 2 claws, and then draw the relay gear B.

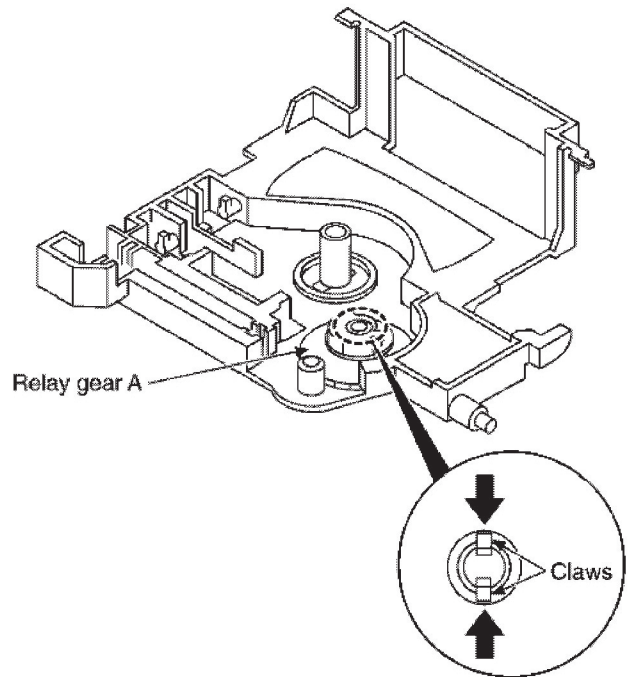
Step 5 Release the 2 claws as shown below.



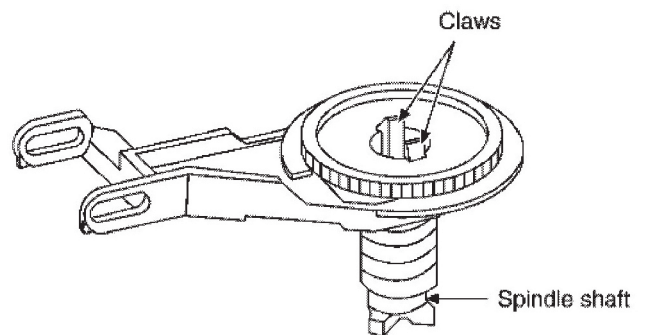
Note:
Hold the loading stopper ass'y manually because it is flipped by spring.



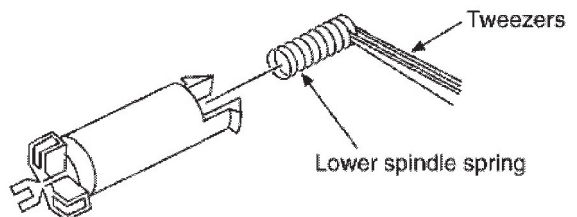
- Step 6** Remove the cushion spring.
Step 5 Remove the loading stopper ass'y in the direction of arrow.



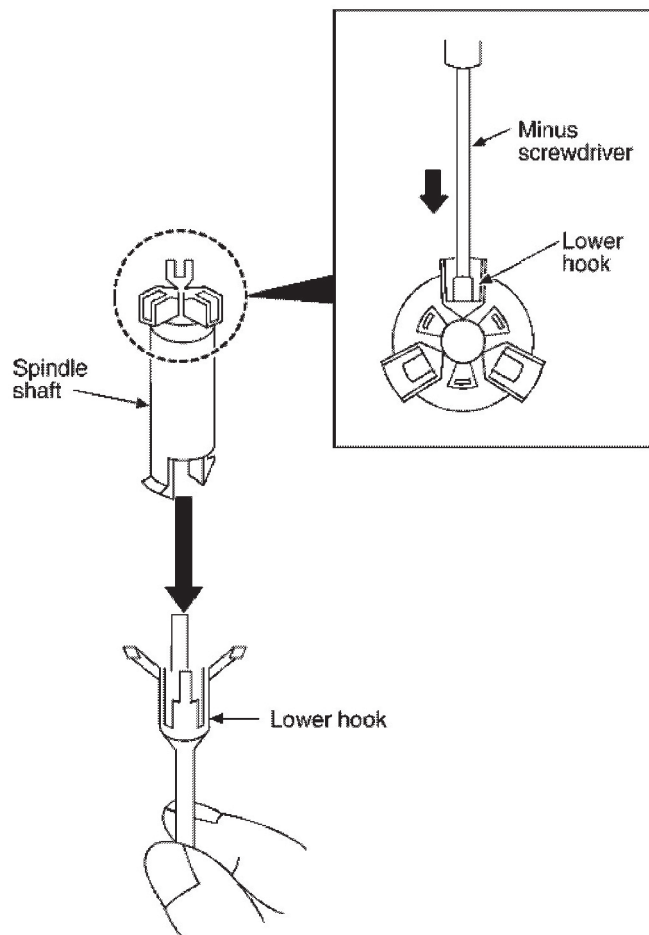
- Step 8** Release the 2 claws, and then remove the relay gear A.
Step 9 Release the 2 claws, and then remove the spindle shaft.



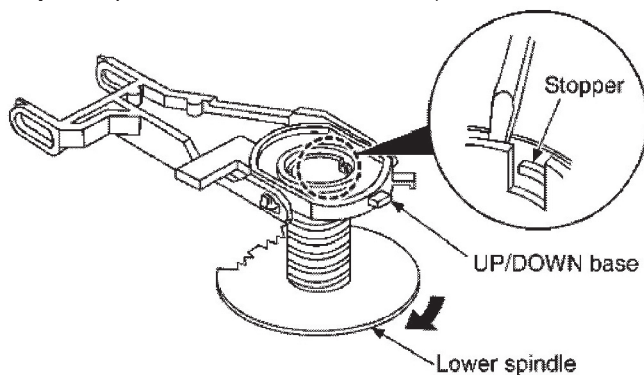
- Step 10** Remove the lower spindle spring with tweezers.



- Step 11** Force the lower hook with thin tip of minus screwdriver.

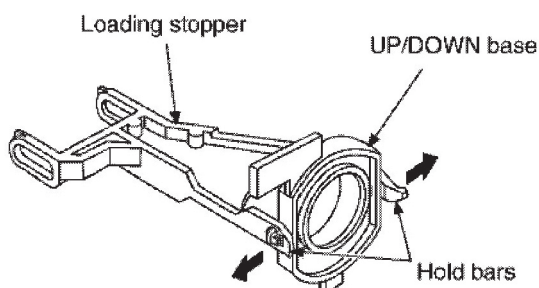


Step 12 Squeeze the shaft of lower hook, and then draw it.



Step 13 Rotate the lower spindle in the direction of arrow until the lower spindle interferes with stopper.

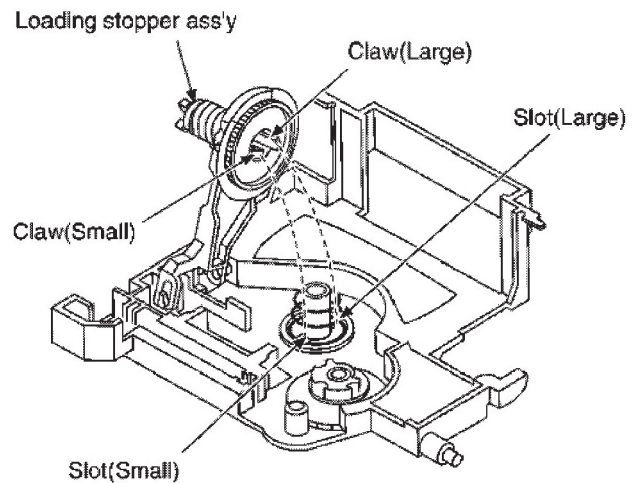
Step 14 Insert the thin tip of minus screwdriver and then slacken the lower spindle to release the stopper. Then, rotate the lower spindle and remove it.



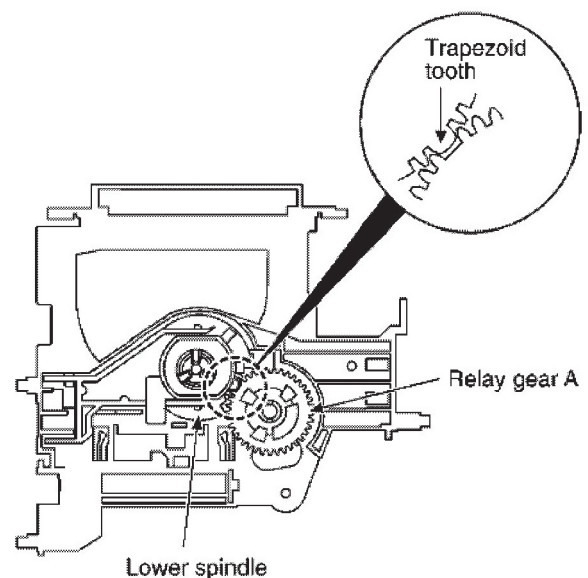
Step 15 Rotate the UP/DOWN base at a 90 angle. Then, spread the hold bars of loading stopper and remove the UP/DOWN base.

(Installation for loading stopper ass'y)

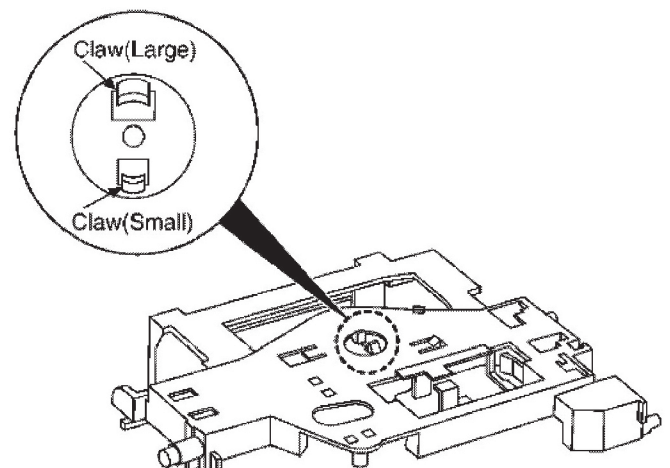
Step 1 Align the claw of loading stopper ass'y with the slot of spindle base. (Caution should be exercised when alignment of claw due to the size of claws.)



Step 2 Lower the loading stopper ass'y, and then align the lower spindle with the trapezoid tooth of relay gear A.



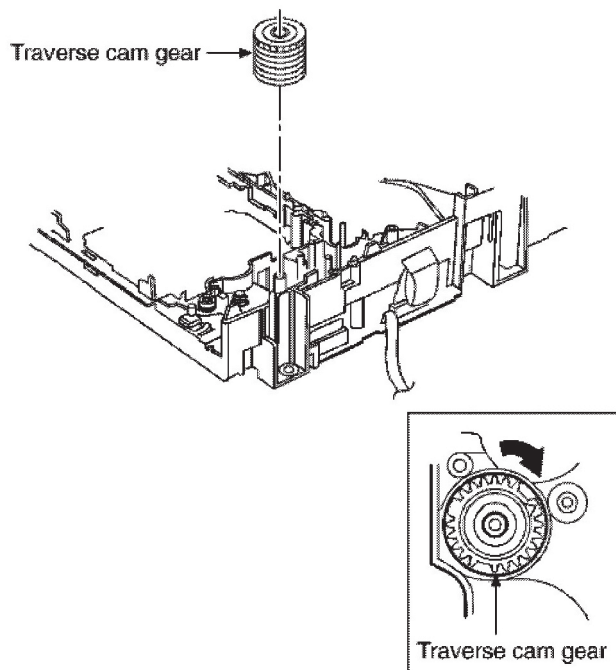
Step 3 Force the loading stopper ass'y, latch the claw firmly.



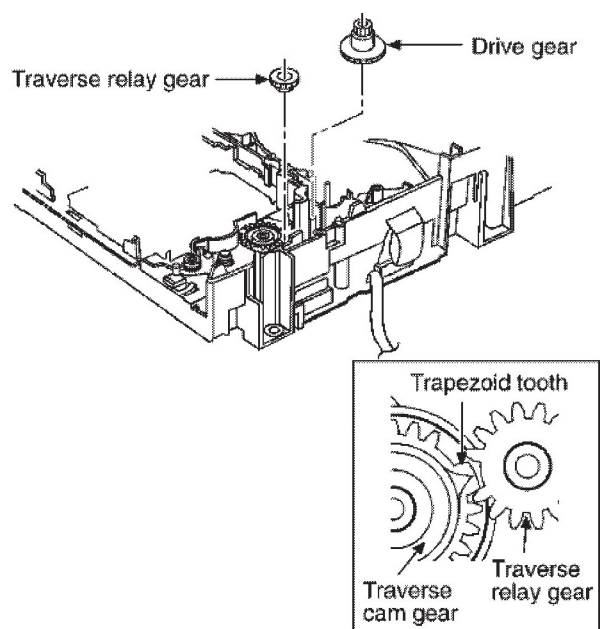
(Reassembly for mechanism base drive unit)

Step 1 Install the traverse cam gear.

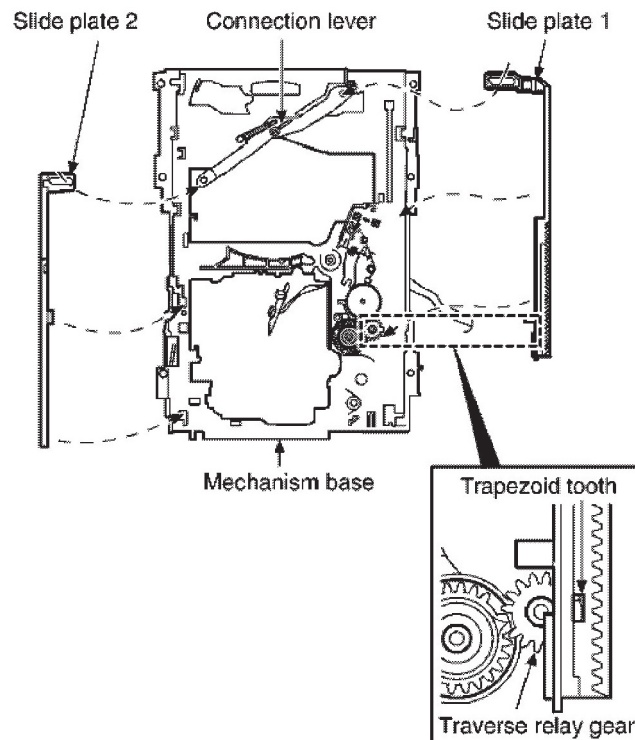
Step 2 Rotate the traverse cam gear to the direction of arrow.



Step 3 Install the drive gear and traverse relay gear.

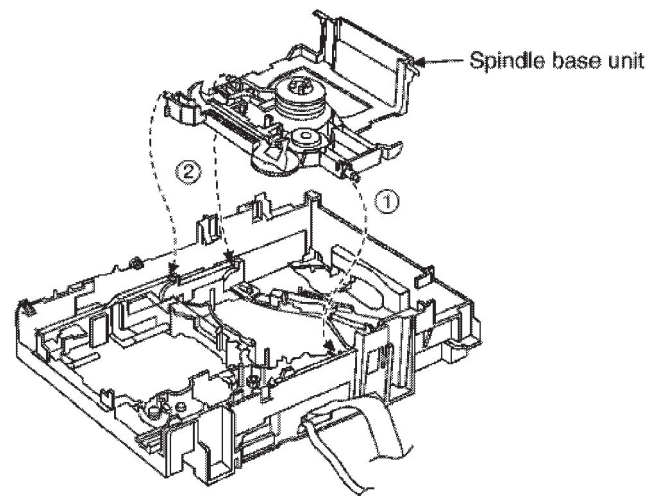


*When installing the traverse relay gear, align the trapezoid tooth of gear with tooth of traverse cam gear.

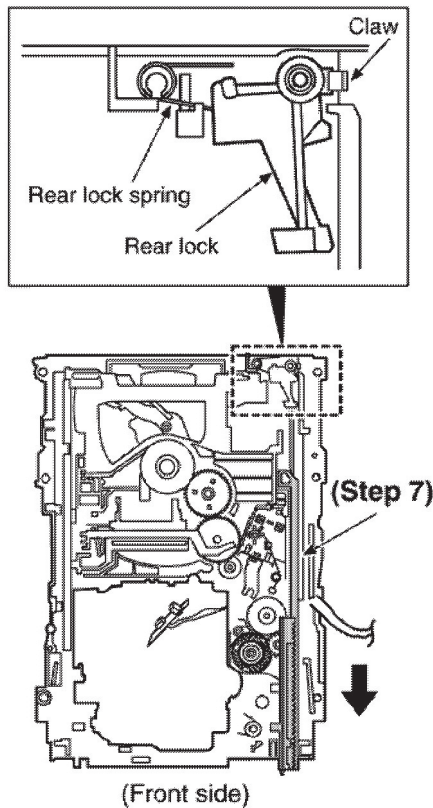


Step 4 Install the slide plate 2 to the mechanism base, and then match to the connection lever.

Step 5 Install the slide plate 1 to the mechanism base, and then match to the connection level and align the trapezoid tooth of traverse relay gear with the slide plate 1.



Step 6 Install the spindle base unit. (First, slide plate 1.)

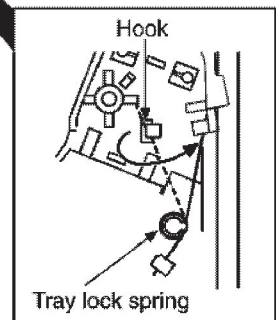
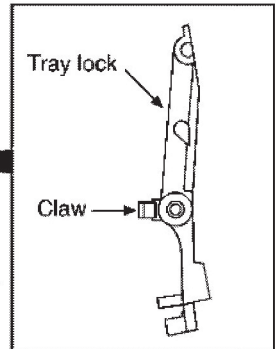
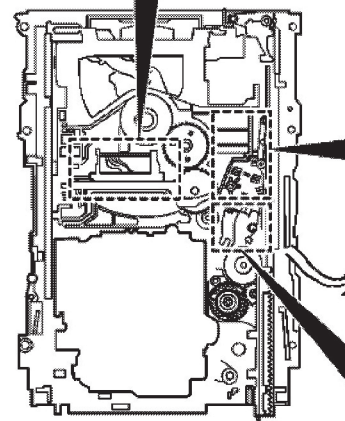
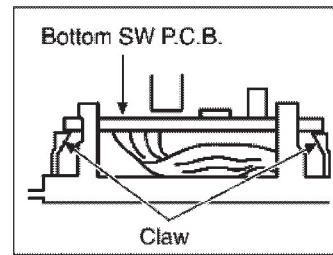


Step 7 Move the slide plate 1 to forward fully.

Step 8 Install the rear lock. (The claw should be latched.)

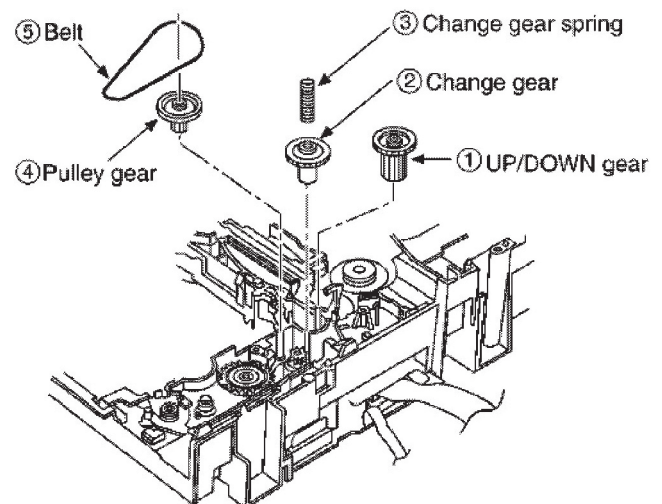
Step 9 Install the bottom SW P.C.B. (The claw should be latched.)

Step 10 Install the tray lock. (The claw should be latched.)

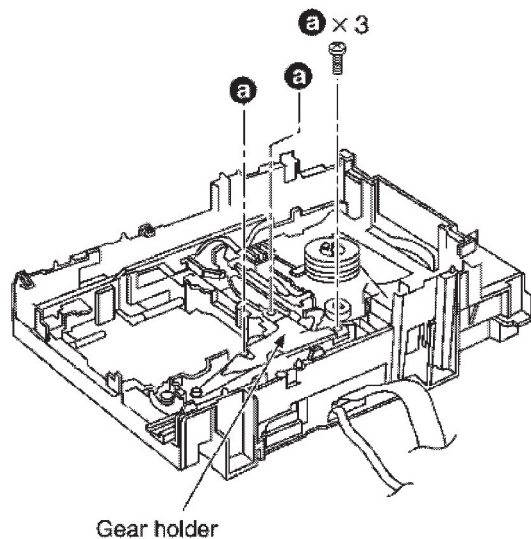


Step 11 Remove the tray lock spring from hook, and then latch to the tray lock.

Step 12 Install the UP/DOWN gear, change gear, change gear spring, pulley gear and belt in the order of (1) - (5).



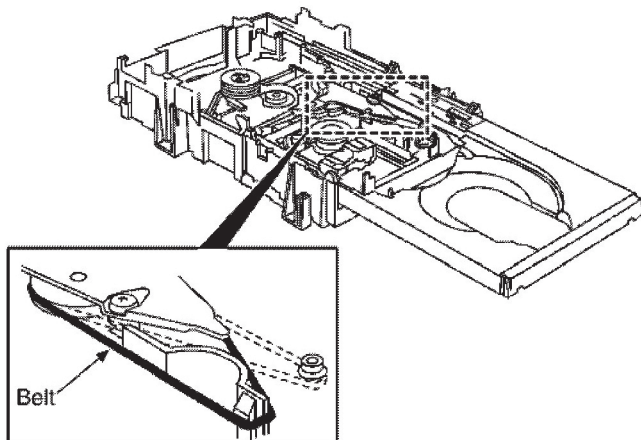
Step 13 Install the gear holder, and then tighten the screw (a).



Gear holder

7.7. Replacement for the motor ass'y

- Follow the (Step 1) - (Step 2) of item 7.1.
- Follow the Disassembly for the CD Changer of item 7.2.
- Follow the (Step 1) - (Step 8) of item 7.4.
- Follow the (Step 1) - (Step 7) of item 7.5.



Step 1 Install the belt temporarily.

Note:

Take care not apply the grease to the belt.

Step 2 Upset the CD loading unit.

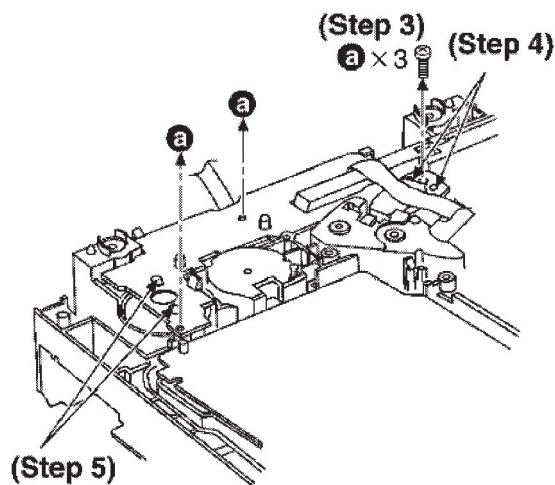
Step 3 Remove 3 screws.

Step 14 Install the tray base, traverse ass'y mechanism cover and upper plate.

(operation check after servicing).

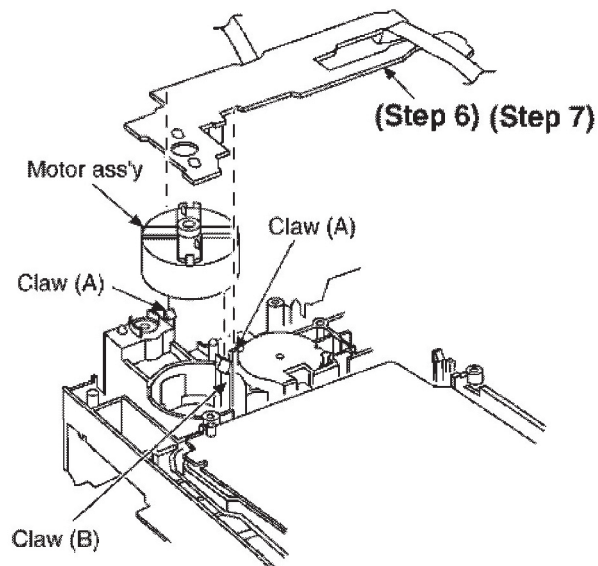
Check the proper operation of following items with gear and hexagonal screwdriver.

1. Open/close of tray base.
2. Moving the tray base to the stock side.
3. UP/DOWN operation of spindle base unit.
4. UP/DOWN operation of traverse ass'y.



Step 4 Unsolder the plunger terminals (2 points).

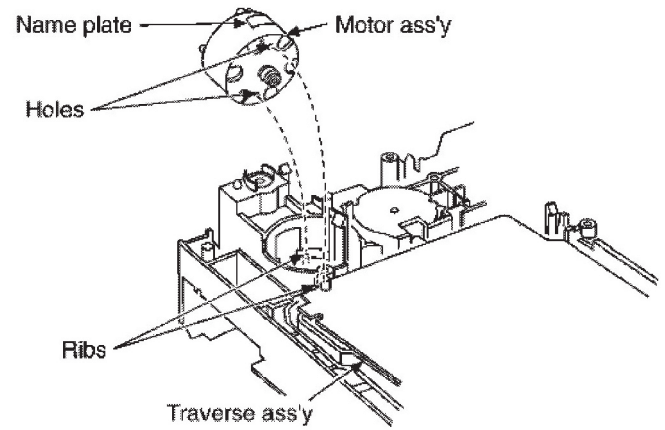
Step 5 Unsolder the motor terminals (2 points).



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

Step 7 Release the claw (B), and then remove the motor ass'y.
(Notice for motor ass'y installation)

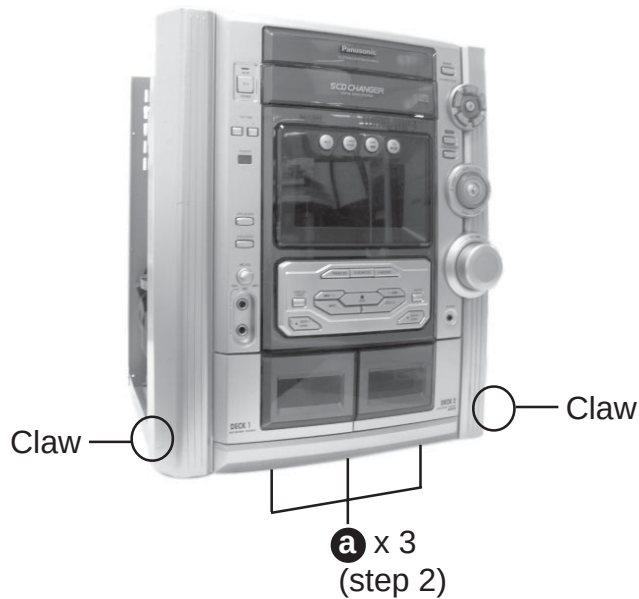
1. Locate the name plate of motor to the traverse ass'y.
2. Align the hole of motor with the ribs.



7.8. Replacement for the pinch roller ass'y and head block

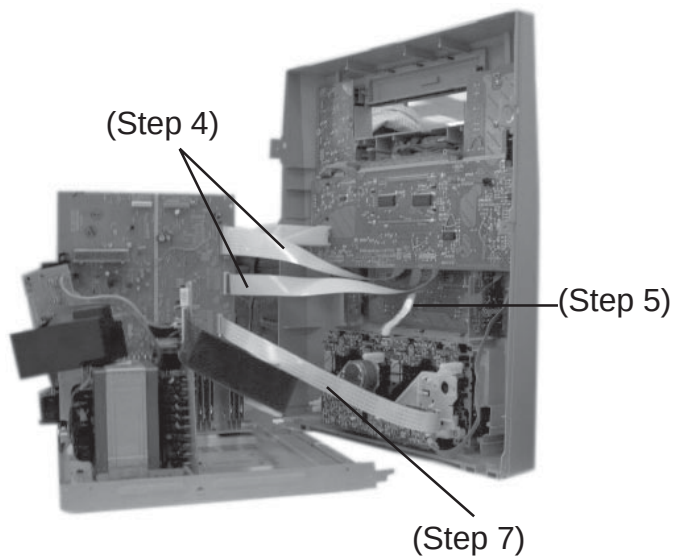
- Follow the (Step 1) - (Step 2) of item 7.1.
- Follow the Disassembly for the CD Changer of item 7.2.
- Follow the (Step 1) - (Step 14) of item 7.4.

Step 1 Remove the connector.??



Step 2 Remove 3 screws.

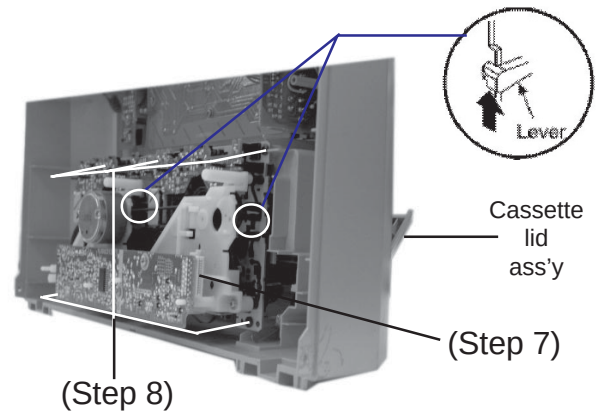
Step 3 Remove the 2 claws, and then draw the front panel ass'y.



Step 4 Pull out the FFC.

Step 5 Remove the flat cable from the connector.

Step 6 Push the lever upward, and then open the cassette lid ass'y (For DECK1 and DECK2).

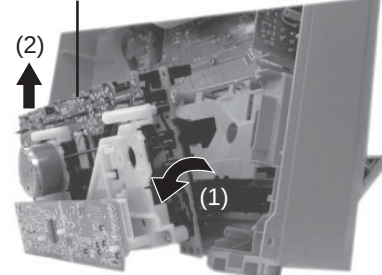


a x 5

Step 7 Remove the flat cable from the connector (CN1001).

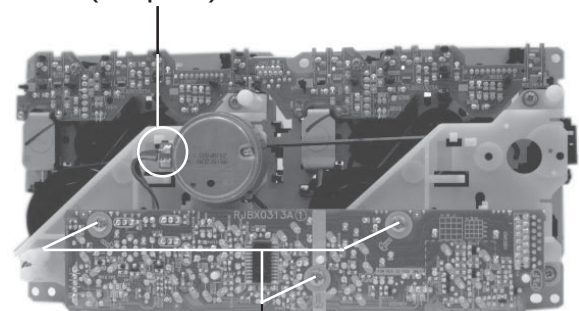
Step 8 Remove the 5 screw.

Cassette mechanism



Step 9 Tilt the cassette mechanism in the direction of arrow (1), and then remove it in the direction of arrow (2).

(Step 10)



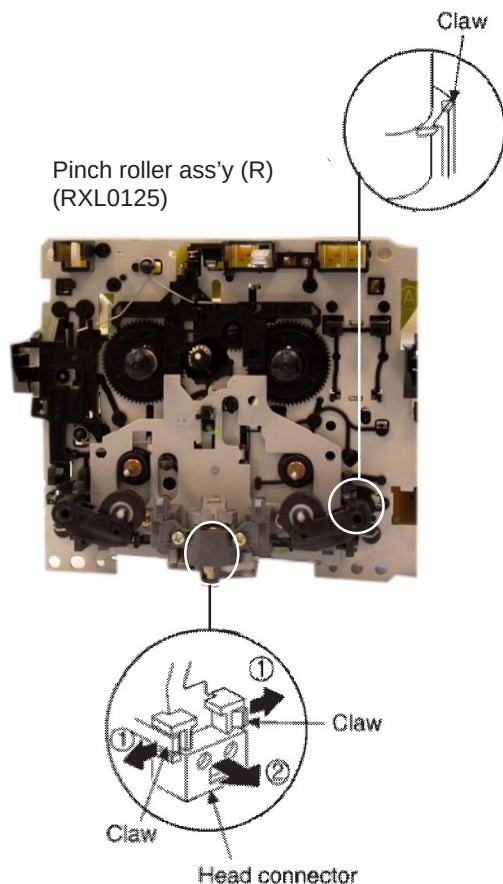
Step 10 Unsolder the motor terminals.

a x 3
(step 11)

Step 11 Remove 4 screws.

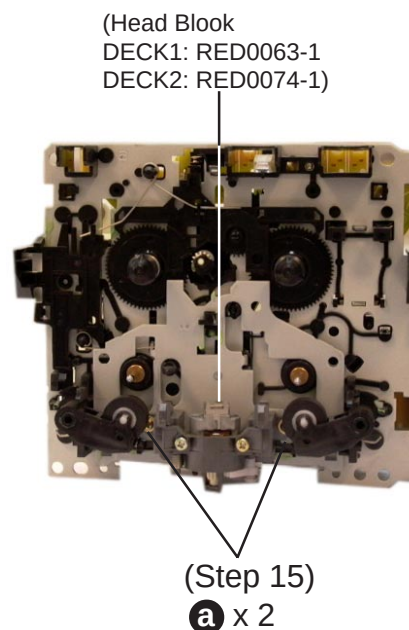
Step 12 Remove mechanism Deck P.C.B.

* The mechanism as shown below is for DECK 1. For the one of DECK 2, perform the same procedures.



Step 13 Release the 2 claws, and then remove the pinch roller (R), (F).

Step 14 Release the 2 claws, and then remove the head connector.



Step 15 Remove 2 screws.

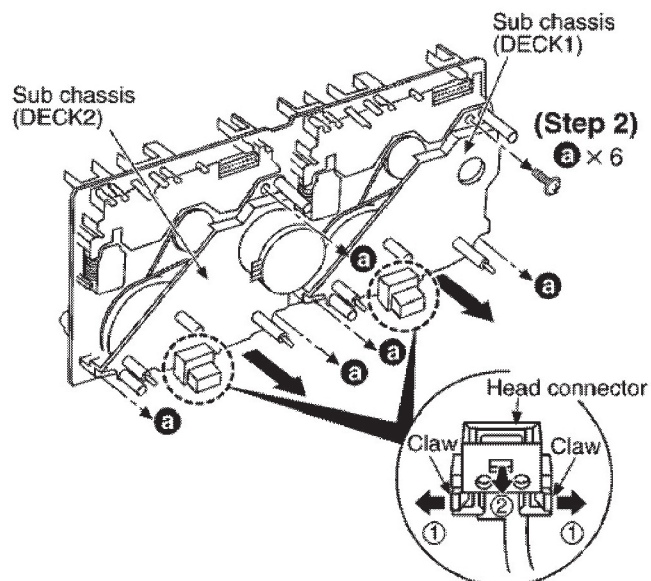
7.9. Replacement for the CD motor ass'y. capstan belt A, capstan belt B and winding belt

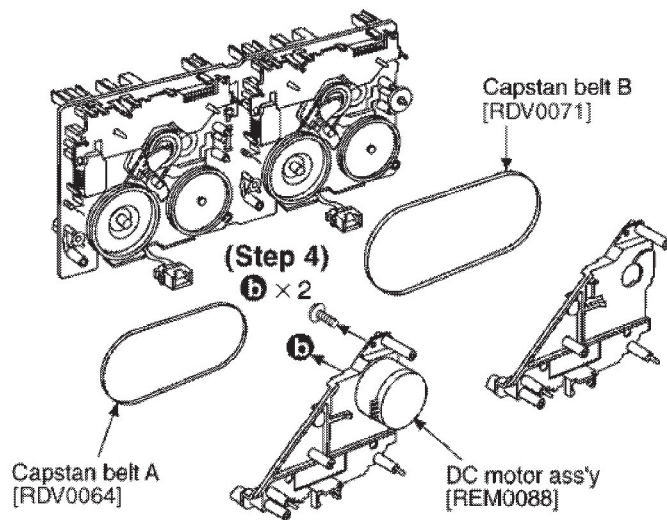
- Follow the (Step 1) - (Step 2) of item 7.1
- Follow the Disassembly for the CD Changer of item 7.2.
- Follow the (Step 1) - (Step 14) of item 7.4.
- Follow the (Step 1) - (Step 11) of item 7.9

Step 1 Release the 2 claws, and then remove the head connector.

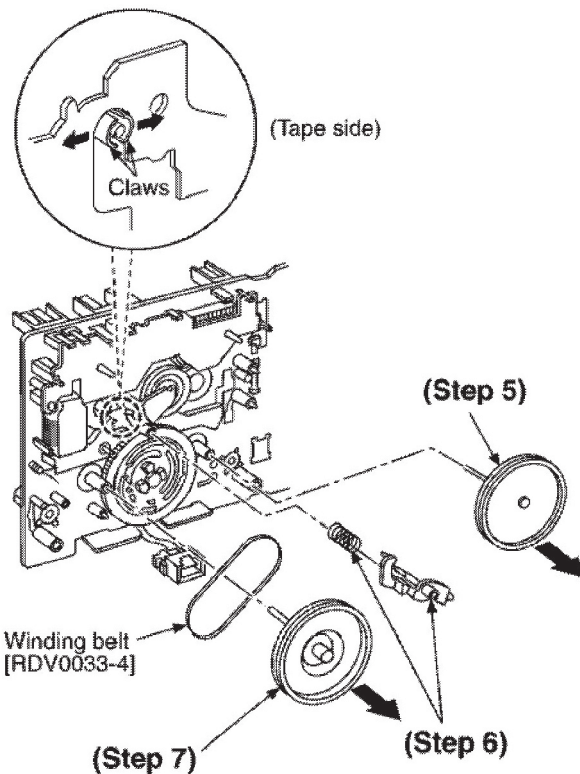
Step 2 Remove 6 screw.

Step 3 Remove the sub chassis





Step 4 Remove 2 screws.



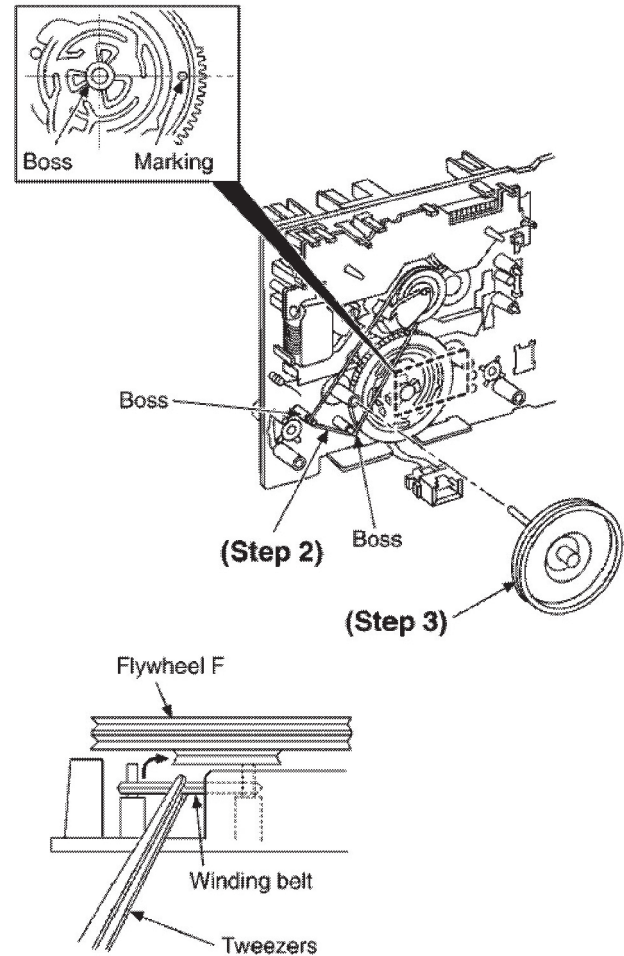
Step 5 Remove the flywheel R.

Step 6 Release the claw of tape side, and then remove the winding lever and spring.

Step 7 Remove the flywheel F.

(Installation of the belt)

Step 1 The boss and marking should be positioned horizontally.



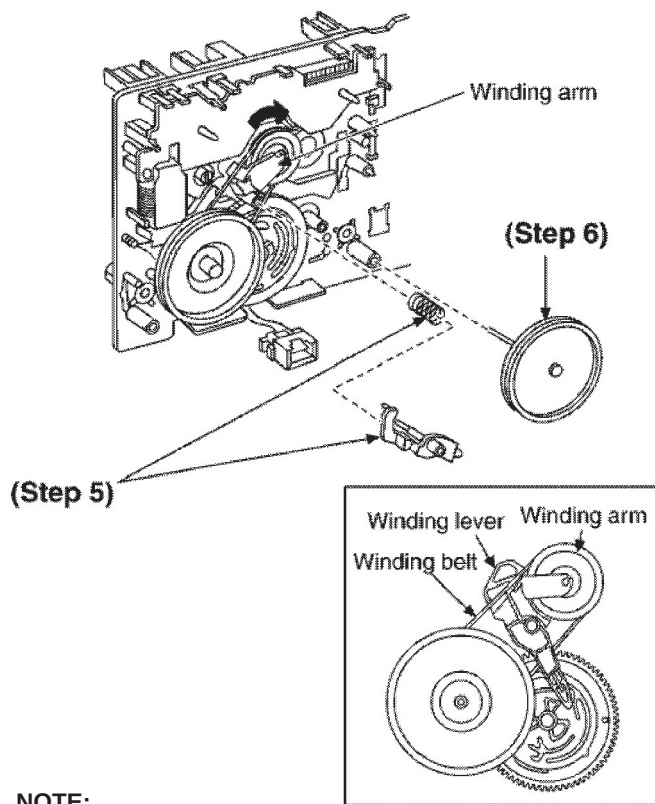
Step 2 Put the winding belt on the pulley temporarily.

Step 3 Install the flywheel F.

Step 4 Put the winding belt on the flywheel F.

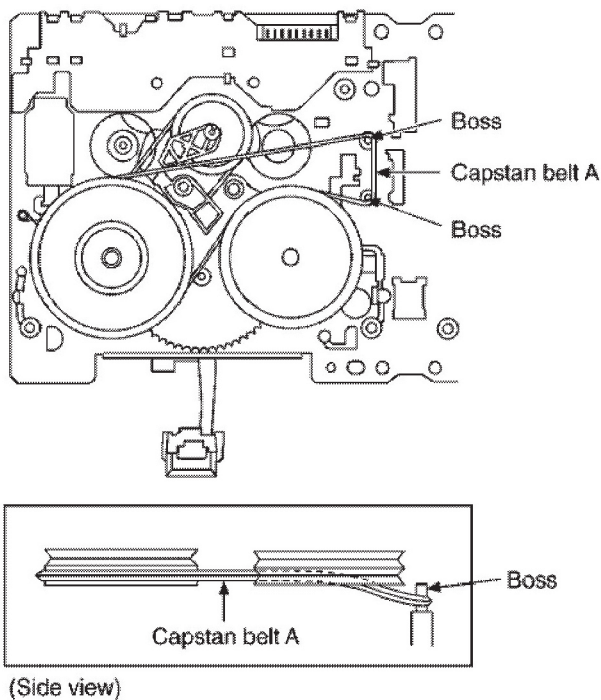
Step 5 Install the winding lever and spring while pressing the winding arm in the direction of arrow.

Step 6 Install the flywheel R.

**NOTE:**

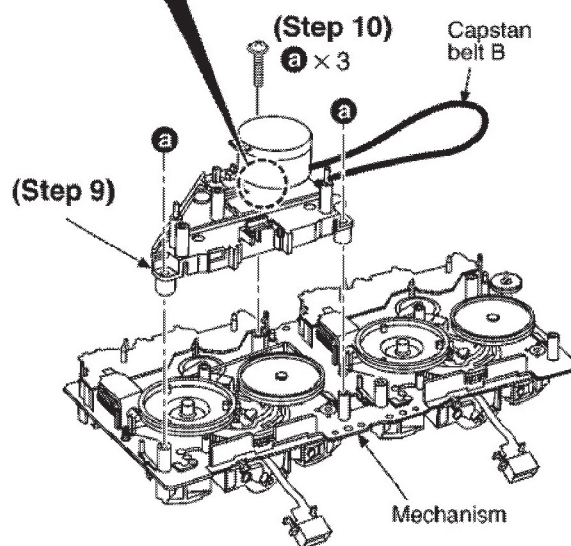
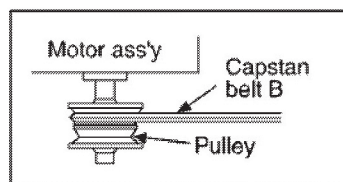
The winding lever should be positioned as shown below.

Step 7 Put the capstan belt A temporarily as shown below.



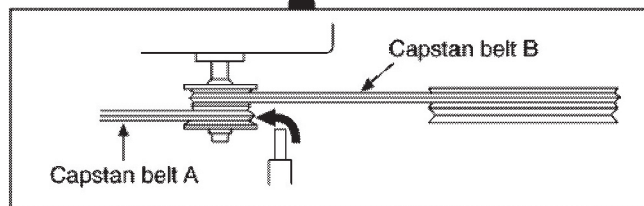
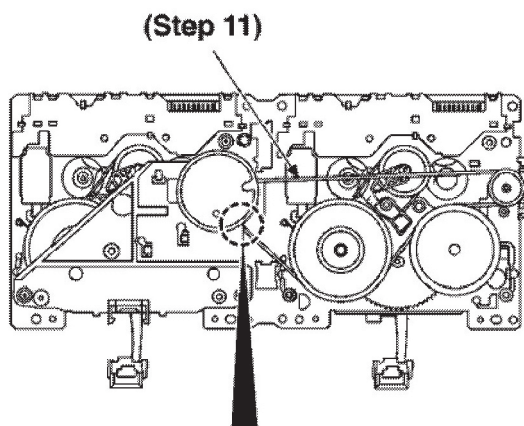
Step 8 Put the capstan belt B on the motor ass'y pulley.

Step 9 Install the sub chassis to the mechanism, and then tighten screws.



Step 10 Remove 3 screws.

Step 11 Put the capstan belt B as shown below.



Step 12 Put the capstan belt A on the motor ass'y pulley.

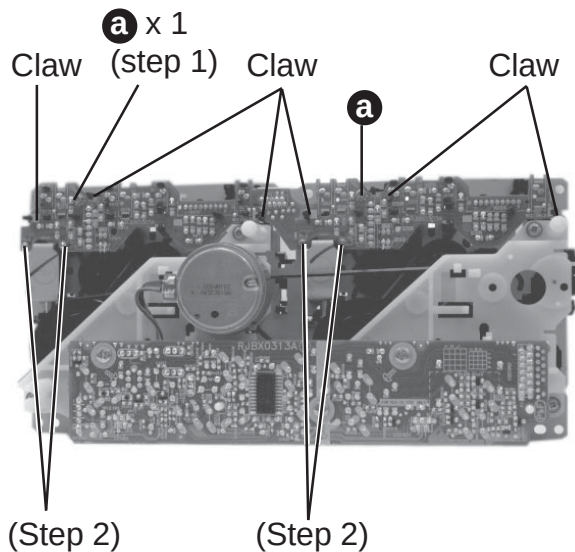
7.10. Replacement for the CD motor ass'y. capstan belt A, capstan belt B and winding belt

- Follow the (Step 1) - (Step 2) of item 7.1
- Follow the Disassembly for the CD Changer of item 7.2.
- Follow the (Step 1) - (Step 14) of item 7.4.
- Follow the (Step 1) - (Step 11) of item 7.9

Step 1 Remove 2 screws.

Step 2 Unsolder the plunger terminals (2 points).

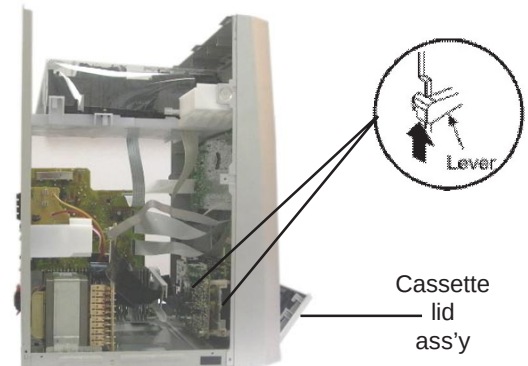
Step 3 Release the 3 claws, and then remove the mechanism P.C.B.



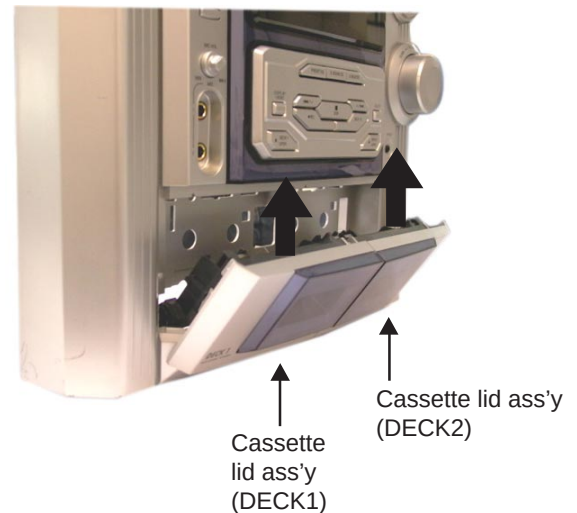
7.11. Replacement for the cassette lid ass'y

- Follow the (Step 1) - (Step 7) of item 7.1

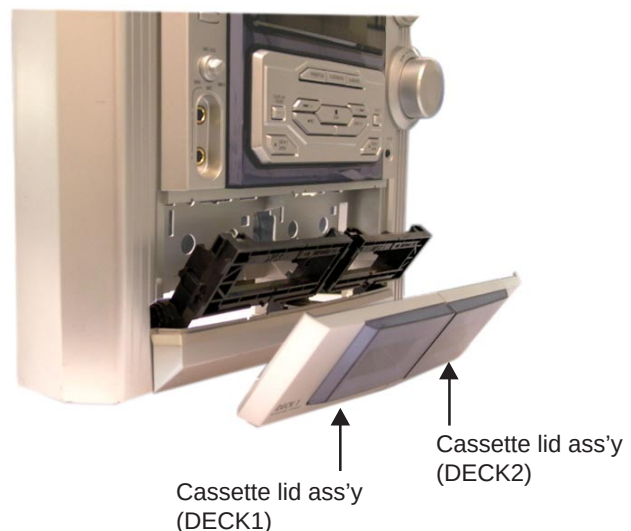
Step 1 Force the lever upward, open the cassette lid ass'y (For DECK 1 and DECK2).



Step 2 Lift up the cassette lid ass'y in the direction of arrow. (For DECK1 and DECK2).



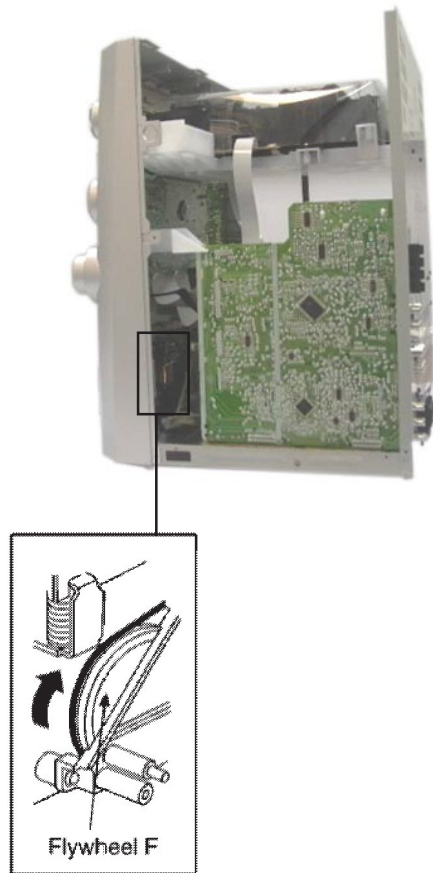
Step 3 Remove the cassette lid ass'y. (For DECK1 and DECK2).



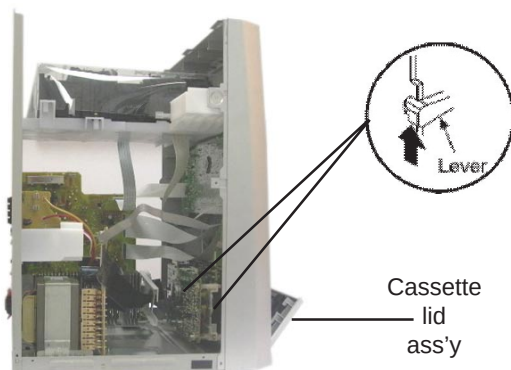
7.12. Measure for tape trouble

- Follow the (Step 1) - (Step 2) of item 7.1

Step 1 If a cassette tape cannot be removed from the deck since the tape is caught by the capstan or pinch roller during playback or recording, rotate the flywheel F in the direction of the arrow to remove the tape.



Step 2 Force the lever upward and open the cassette lid ass'y. Take the cassette tape off.



8 Precaution of Laser Diode

CAUTION:

This unit utilizes a class 1 laser.

Invisible laser radiation is emitted from the optical pickup lens.

When the unit is turned on:

1. Do not look directly into the pick up lens.
2. Do not use optical instruments to look at the pick up lens.
3. Do not adjust the preset variable resistor on the pickup lens.
4. Do not disassemble the optical pick up unit.
5. If the optical pick up is replaced, use the manufacturer's specified replacement pick up only.
6. Use of control or adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure.

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.

9 Description of Error Code

9.1. Error detection for Cassette Mechanism block

No.	Error	Error Display	Problem condition
1	MODE SW detection error	H01	Faulty operation of cassette mechanism. Faulty contact or short-circuit of mechanism mode switch (S951, S971).
2	REC INH SW detection error	H02	Recording not possible. Faulty contact or short-circuit of REC INH switch (S975).
3	HALF SW detection error	H03	Playback cannot perform. Faulty contact or short-circuit of HALF switch (S952, S972).
4	Reel Pulse detection error	F01	The tape advances slightly and then stops. Faulty reel pulse, faulty hole detect IC (IC951, IC971).
5	TPS abnormal	F02	Cassette deck will not perform TPS function. Faulty playback EQ/recording amplifier IC (IC1001).

9.2. Error detection for CD Changer block

No.	Error	Error Display	Problem condition
1	REST SW detection error	F15	CD does not function This error occurs when the Optical Pick up REST SW (S701) is not detected within the specified time (about 8 seconds)
2	CD tray opens automatically	F16	CLAMP switch (SW4) NG (Check & Replace)
3	Does not startup when (PLAY) Button is pressed	F17	BOTTOM switch (SW5) NG (Check & Replace)
4	Transmission error between CD servo LSI and micon	F26	CD does not function This error occurs when the POWER is ON for the CD block and an error is detected after the transmission has started.
5	Startup fails even when you insert CD or the selected disc tray does not open	F27	Tray 1 detect switch or Tray 2 detect switch NG (Check & Replace)
6	Cannot insert CD	F28	Tray 1 detect switch NG (Check & Replace)
7	Cannot eject CD	F29	Check if disc is stuck. Tray 2 detect switch NG (Confirm & Replace)
8	The CD tray closes	H15	CD disc tray detect switch NG (SW3) (Check & Replace)

9.3. Power Supply related error detection

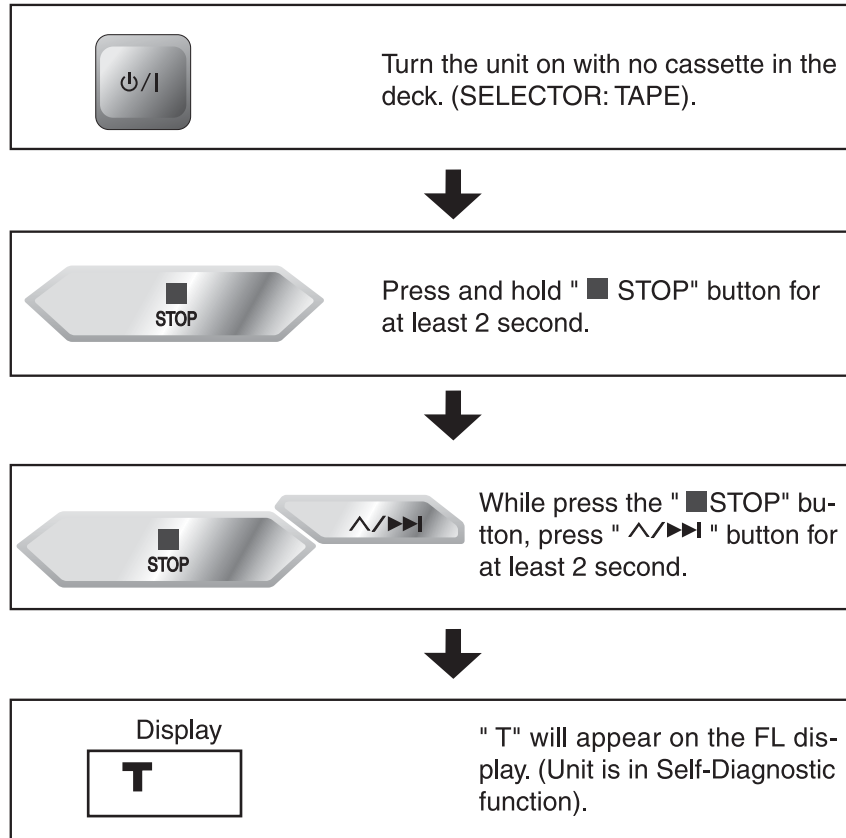
No.	Error	Error Display	Problem condition
1	POWER AMP output abnormal	F61	When POWER is switched on, power become off automatically. During normal operation, if DC DET become L, PCNT shall become L and the error display on the left shall be displayed. (IC501)

10 Self-Diagnostic Function

10.1. Self-diagnostic display

This unit is equipped with a self-diagnostic display function which, if a problem occurs, will display an error code corresponding to the problem. Use this function when performing maintenance on the unit.

10.2. How to enter the Self-diagnostic function



10.3. Cassette Mechanism Test (For error code H01, H02, H03, F01, F02)

1. Press "TAPE DECK 1/2" to select DECK 2.
2. Load a cassette tape with the erasure prevention tab, remove from left side only and close the cassette holder.
3. Press "FAST FORWARD MEMORY" (Tape will be stop after 2 seconds).
4. Load a cassette tape with the erasure prevention tab, remove from right side only and close the cassette holder.
5. Press "REVERSE FM MODE/BP" (Tape will be stop after 2 seconds).
6. Load a pre-recorded tape with both side record tabs intact and close the cassette holder.
7. Press "TAPE" (Tape will not move).
8. Press "REC" (Tape will not move).
9. Press "STOP" to indicate Error code.
 - If several problem exist, error code will change each time when "TUNE MODE" is pressed. (e.g. H01 - H03 - F01....etc.).
10. Press "TAPE DECK 1/2" to select Deck 1.
11. Repeat step 2 to 9 to test Deck 1. (Tape Deck 1 will not check H02 because of no recording function).

10.4 CD Mechanism Test (F15, F26, F16, F17, F27, F28, F29, H15)

1. Press "CD".
2. Press "OPEN/CLOSE (1)" and place a CD.
3. Press "OPEN/CLOSE (1)" to close the tray.
4. Press "OPEN/CLOSE (5)" and wait until the tray is open.
5. Press "OPEN/CLOSE (1)" and remove the CD.
6. Press "OPEN/CLOSE (1)" to close the tray.
7. Press "TUNE MODE" to indicate Error Code.
 - If several problem exist, error code will change each time when "TUNE MODE" is pressed. (e.g. F15 - F26 - F16... etc).

10.5 To clear all Error code

1. Press "STOP /TUNE MODE" button for 5 seconds.
2. FL indicator shows "CLEAR" for 1 second and change to "T".

10.6 How to get out from Self-Diagnostic function

1. Press "POWER" button OFF.

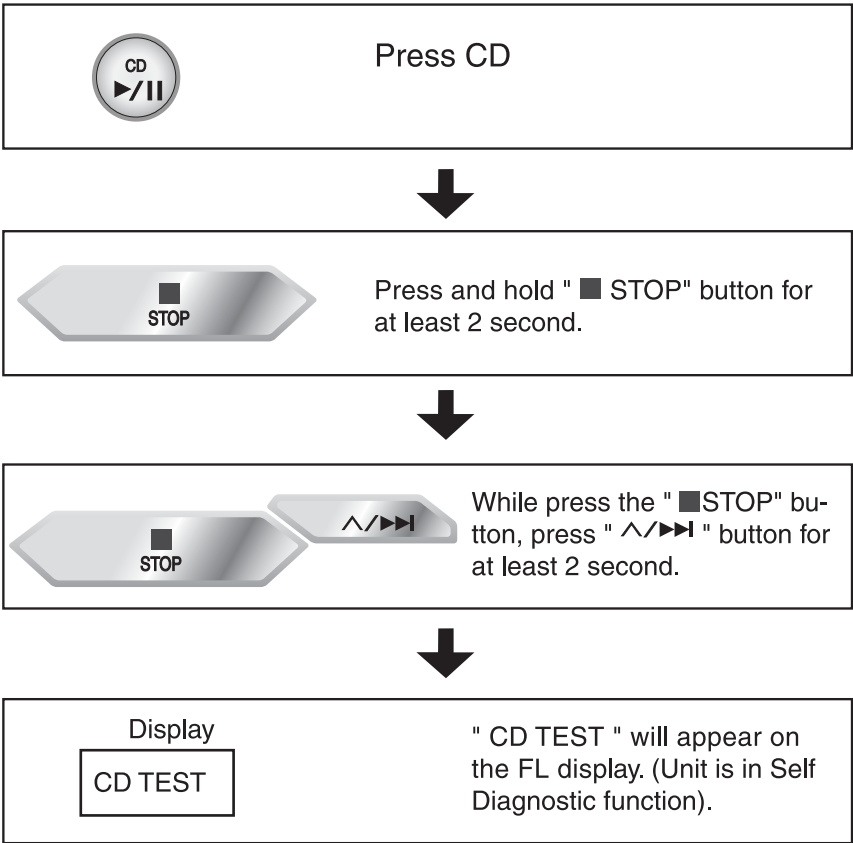
10.7 Power Amplifier Failure (F61)

1. When power amplifier fail, F61 will indicate automatically.

11 CD Test Mode Function

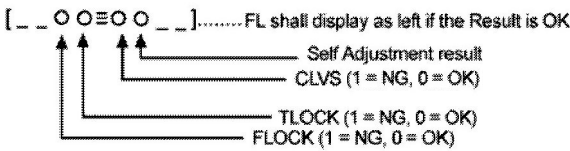
This CD test mode is provided to check CD unit without connecting to changer loading mechanism. This mode shall operate CD PLAY with CD unit being connected only and CD Automatic Alignment result is shown on FL display.

11.1 How to set CD test mode



11.2 CD Automatically Adjustment result indication

Under CD test mode, pressing the numeric key '0' on the remote controller will display the auto adjustment result. FLOCK, TLOCK and CLVS status shall be shown as below:



During the above display, executing CD PLAY will display auto adjustment result for CD PLAY mode.

12 Measurements and Adjustments

12.1. Cassette Deck Section

- Measurement Condition
 - Make sure head, capstan and press roller are clean.
 - Judgeable room temperature $20 \pm 5^{\circ}\text{C}$ ($68 \pm 9^{\circ}\text{F}$)
- Measuring instrument
 - EVM (DC Electronic Voltmeter)
 - Digital frequency counter
- Test tape
 - Tape speed gain adjustment (3 kHz, -10 dB); QZZCWAT

12.1.1. Tape Speed Adjustment (Deck 1/2)

1. Set the tape edit button to "NORMAL" position.
2. Insert the test tape (QZZCWAT) to DECK 2 and play-back (FWD side) the middle portion of it.
3. Adjust Motor VR (DECK 2) for the output value shown below.

Adjustment target: 2940 ~ 3060 Hz (NORMAL speed)

4. After alignment, assure that the output frequency of the DECK 1 FWD is within ± 60 Hz of the value of the output frequency of DECK 2 FWD.

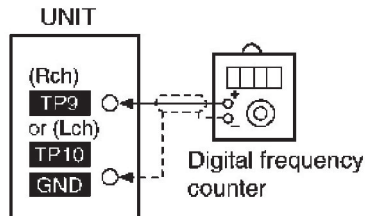


Fig.1

12.1.2. Bias and Erase Voltage Check

1. Set the "AUX" position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and the unit to "REC" mode (use "REC/STOP" key).
3. Measure and make sure that the output is within the standard value.

12.2 Tuner Section

12.2.1. AM-IF Alignment

1. Connect the instrument as shown in Fig. 5.
2. Set the unit to AM mode.
3. Apply signal as shown in Fig. 5 from AM-SG
4. adjust Z102 so that the output frequency is maximized in Fig. 6.

standard value.

Bias voltage for Deck 2

$14 \pm 4\text{mV}$ (Normal)

Erase voltage for Deck 2

80mV (Normal)

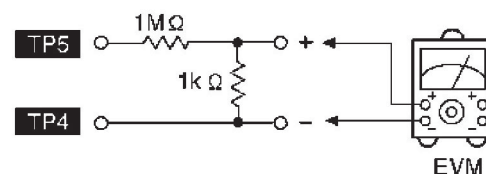


Fig.2

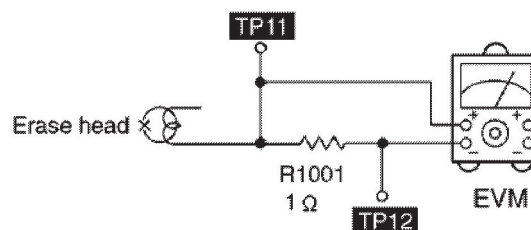


Fig.3

12.1.3. Bias Frequency Adjustment (Deck 1/2)

1. Set the unit to "AUX" position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and set the unit to "REC" mode (use "REC/STOP" key).
3. Adjust L1002 so that the output frequency is within the standard value.

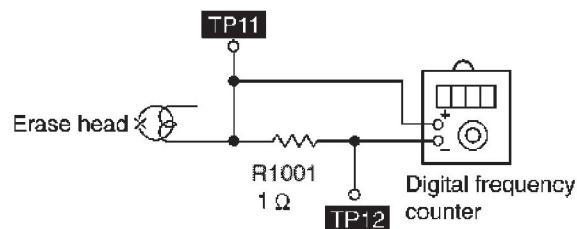


Fig.4

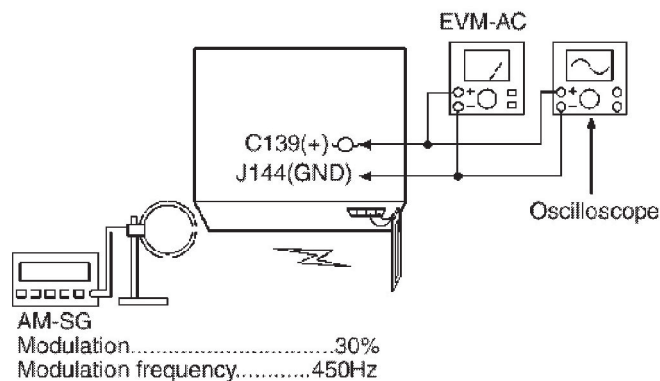


Fig.5

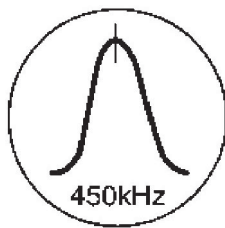


Fig.6

12.2.2. AM RF Adjustment

1. Connect the instrument as shown in Fig. 7.
2. Set the unit to AM mode.
3. Set AM-SG to 520 kHz.
4. Receive 520 kHz in the unit.
5. Adjust Z101 (OSC) so that the EVM-AC is maximized.
6. Set AM-SG to 520 kHz.
7. Receive 600 Hz in the unit.
8. Adjust Z101 (ANT) so that the EVM-SG is maximized.

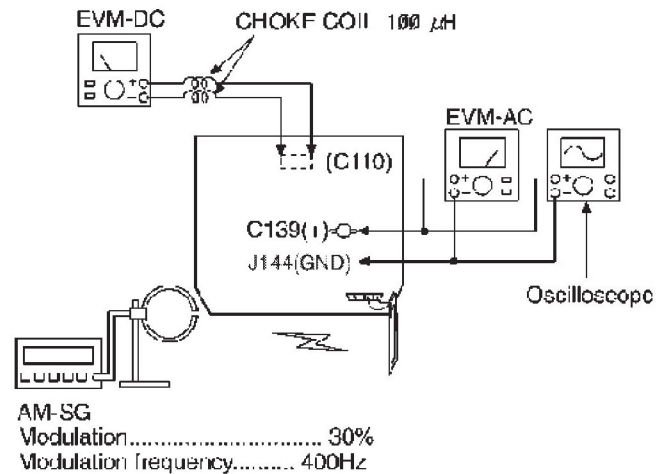
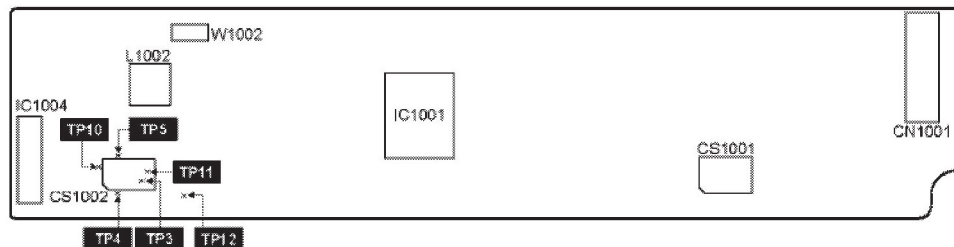


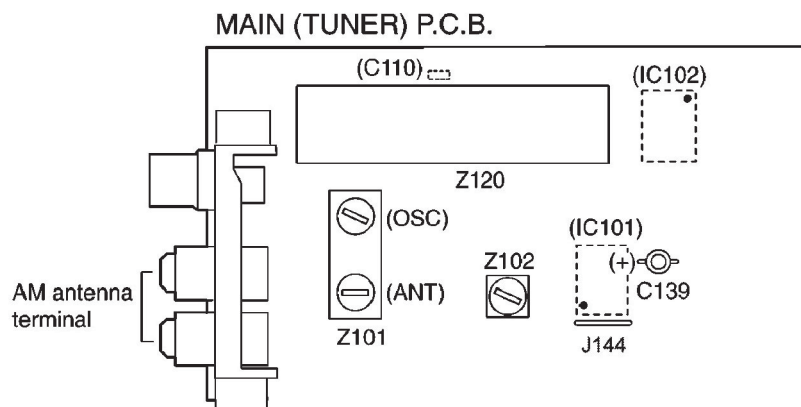
Fig.7

12.3. Alignment Points

12.3.1. Cassette Deck Section



12.3.2. Adjustment Point



13 Schematic Diagram

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

Note:

SW1	:	Push switch
SW2	:	Push switch
SW3	:	Switch
SW4	:	Cd switch
SW5	:	Lock switch
S904	:	Power switch
S602	:	Preset EQ switch
S603	:	Deck 1/2 switch
S604	:	Rec switch
S605	:	CD open/close switch
S606	:	CD 1 switch
S607	:	CD 2 switch
S608	:	CD 3 switch
S609	:	CD 4 switch
S610	:	CD 5 switch
S612	:	S.SEQ switch
S613	:	S.WOOFER switch
S614	:	UP/Album switch
S615	:	Right cursor switch
S616	:	Down switch
S617	:	Left cursos switch
S618	:	Title search switch
S619	:	Enter switch
S620	:	Marker switch
S621	:	Delete switch
S701	:	Reset switch
S901	:	Rew switch
S902	:	Tuner switch
S903	:	CD play switch
S904	:	FF switch
S905	:	Stop switch
S906	:	Deck 2 open switch
S907	:	Tape switch
S908	:	Aux switch
S909	:	Deck 1 open switch
S910	:	Display switch
S911	:	Explosion switch
S912	:	Applauses switch
S913	:	Rhythm 1 switch
S914	:	Rhythm 2 switch
S951	:	Mode switch
S952	:	Half switch
S971	:	Mode switch
S972	:	Half switch
S975	:	Recinh-f switch
VR900	:	Volume jog
VR930	:	Mic volume jog

• 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 of the measuring unit.

No mark : Playback << >> : Rec < > : FM
(()) : CD () : AM [] : AUX

• Importance 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 components, be sure to use only manufacturer's specified parts shown in the parts list.

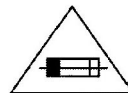
Caution !

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.

CAUTION : FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F1, 4A, 125V FUSE.



RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION



These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire hazard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

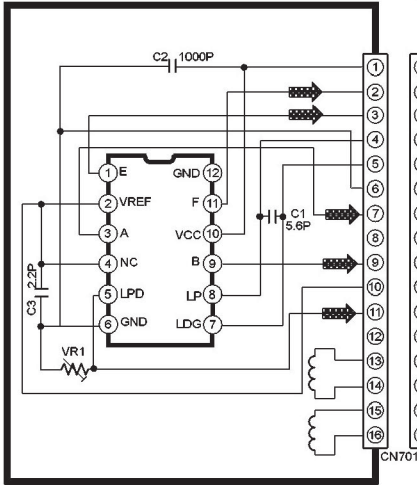


Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n'utiliser que des fusibles de même type. Ce dernier est indiqué là où le présent symbole est apposé.

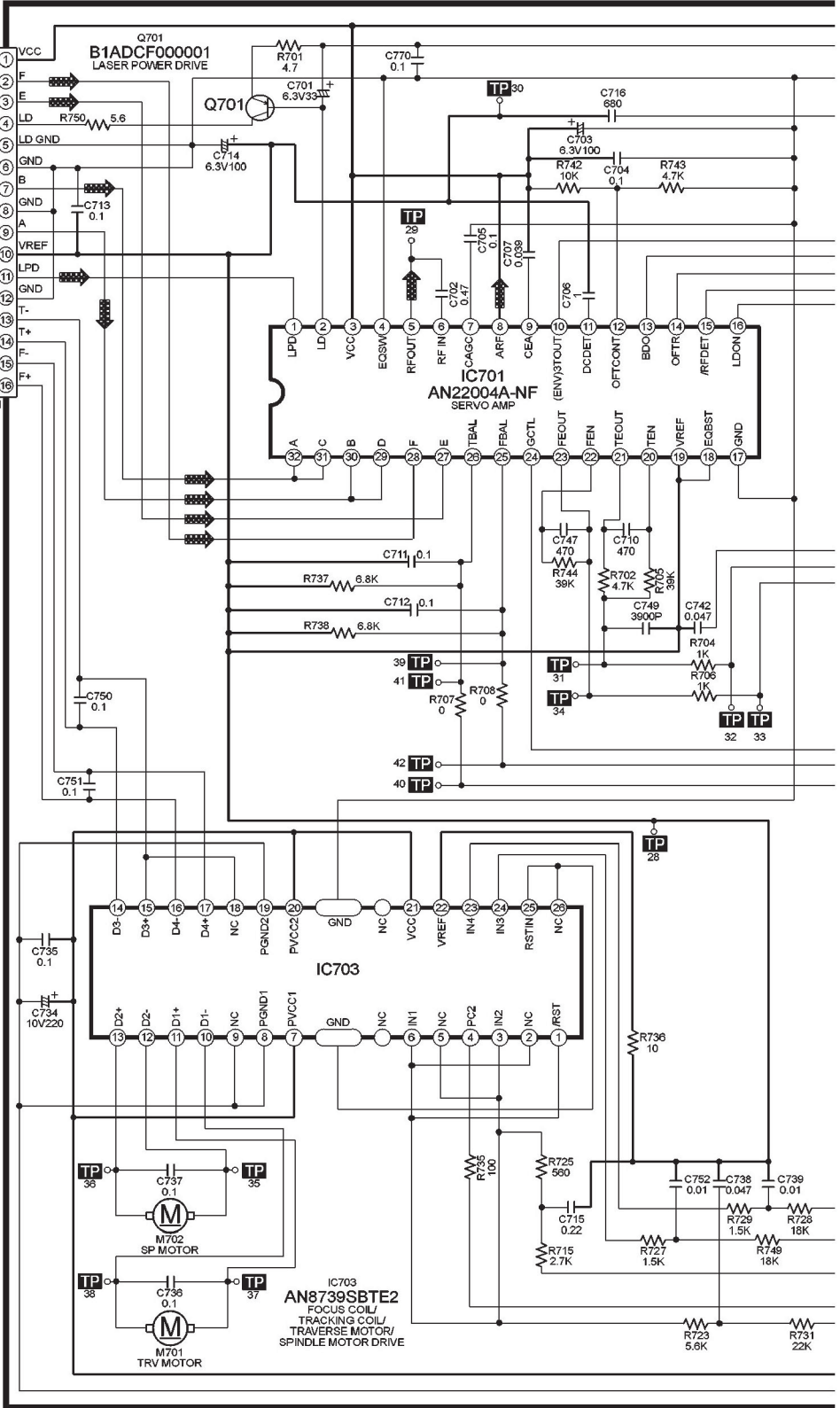
"CAUTION: REPLACE FUSIBLE RESISTOR WITH THE SAME TYPE RSFMB40KT-L FUSIBLE RESISTOR" "ATTENTION: REMPLACER LA RESISTANCE FUSIBLE PAR UNE RESISTANCE FUSIBLE DE MEME TYPE RSFMB40KT-L.

SCHEMATIC DIAGRAM -1

OPTICAL PICKUP CIRCUIT



CD SERVO CIRCUIT



— : +B SIGNAL LINE : CD-DA SIGNAL LINE : CD SIGNAL LINE

TO **B**
MAIN
CIRCUIT
(CN310) ON
SCHEMATIC
DIAGRAM-5

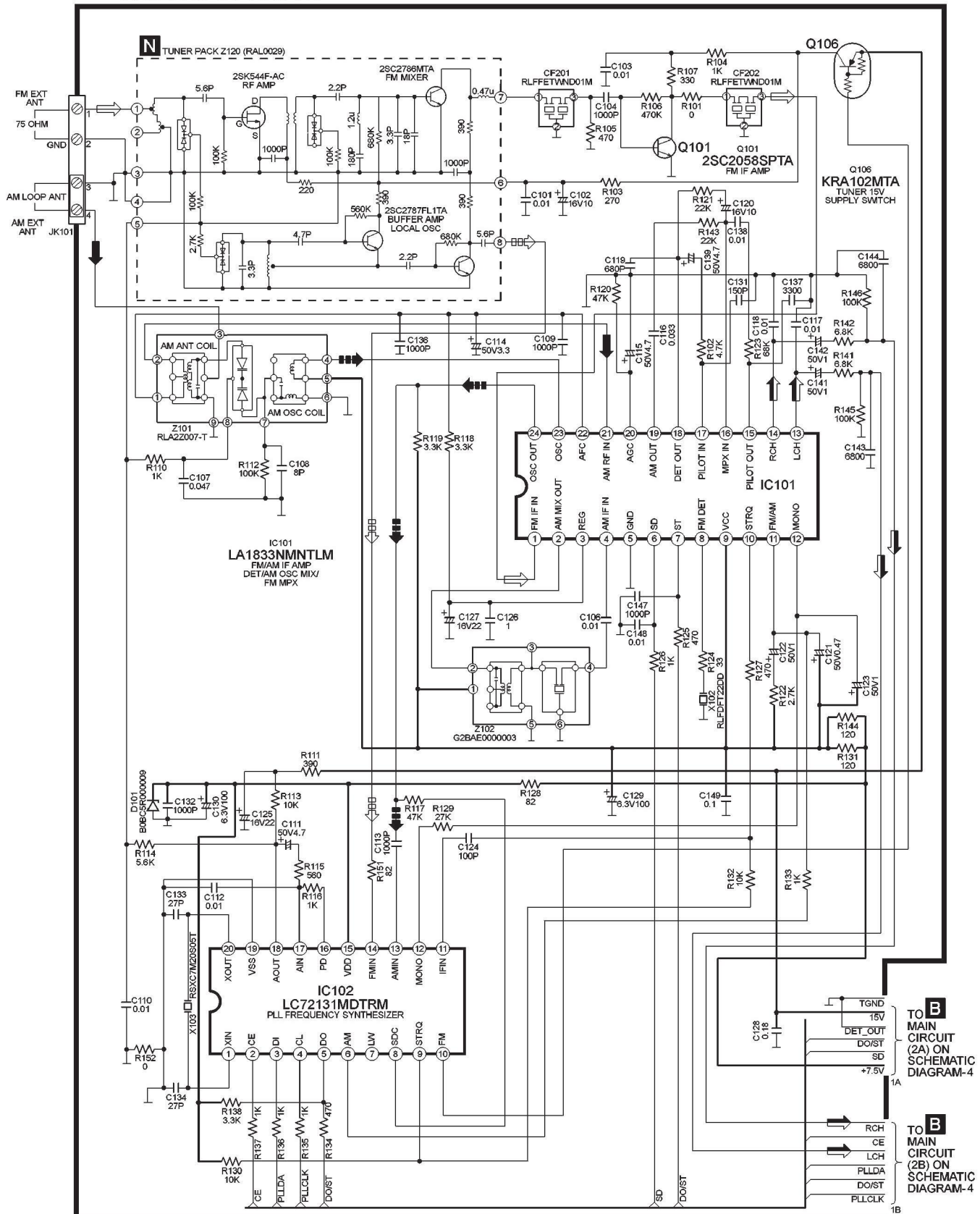
SCHEMATIC DIAGRAM - 3

TUNER/MAIN CIRCUIT

➡ : FM/AM SIGNAL LINE

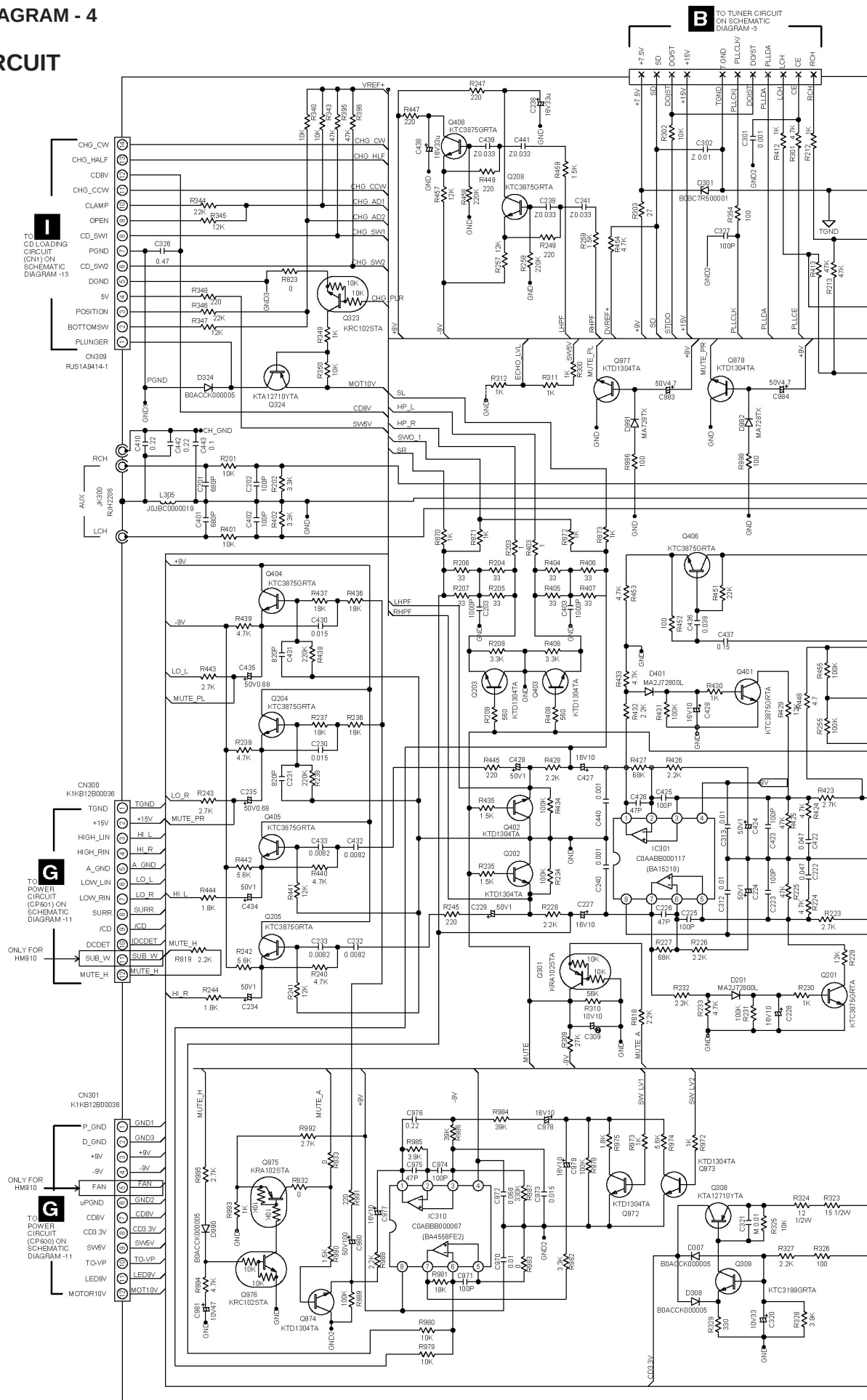
□□➡ : FM OSC SIGNAL LINE

■ ■ ■ ➡ : AM OSC SIGNAL LINE

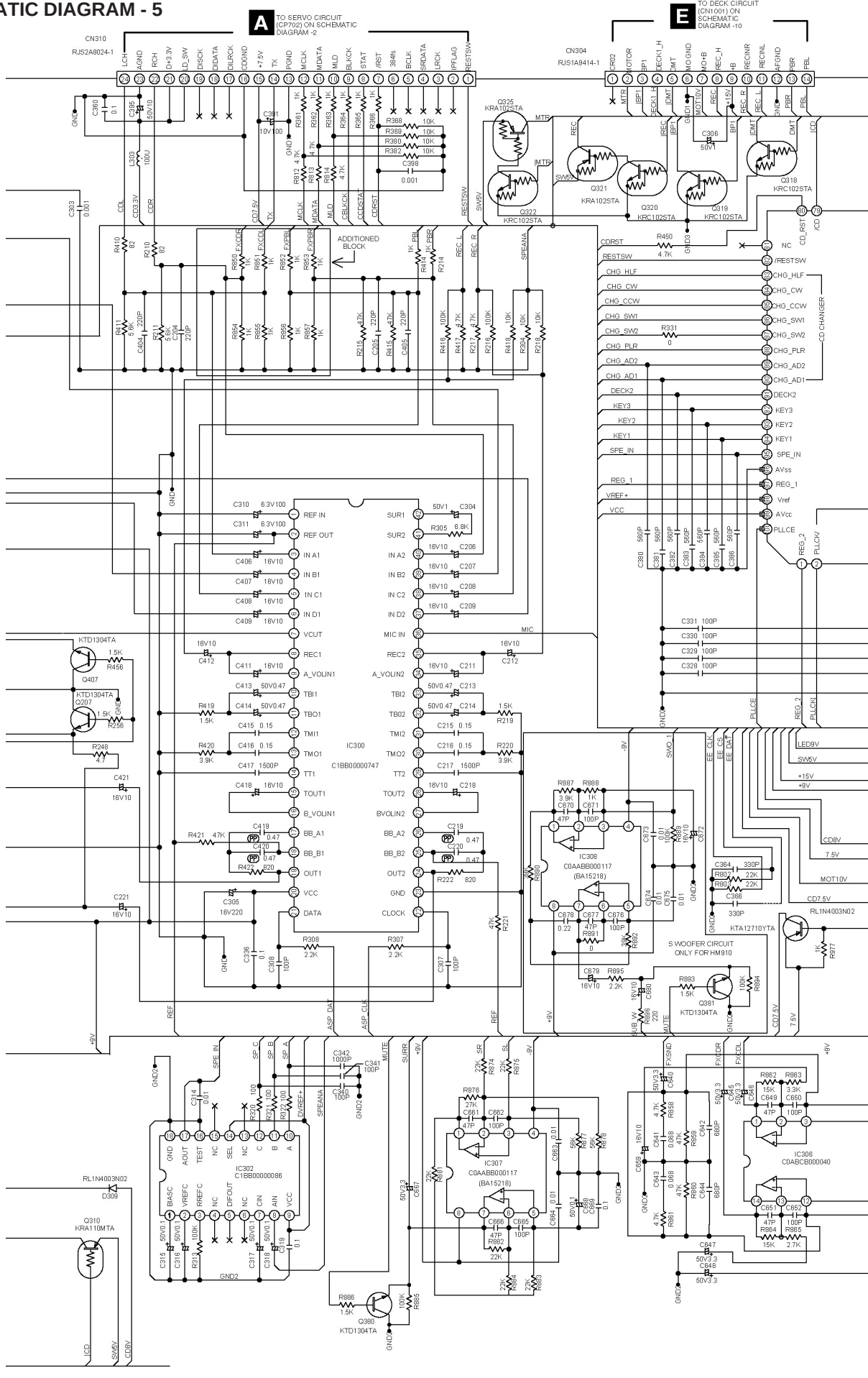


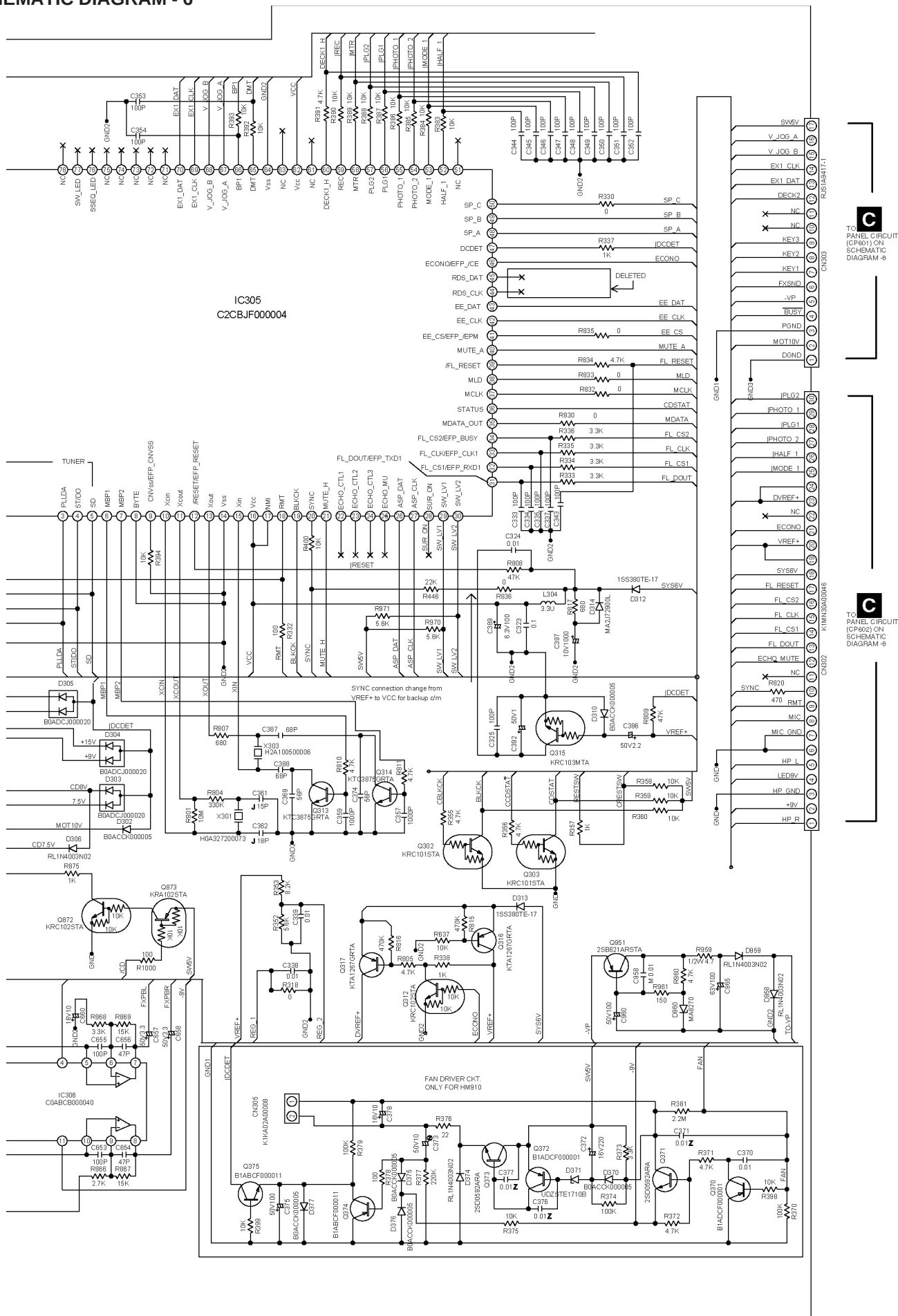
SCHEMATIC DIAGRAM - 4

B MAIN CIRCUIT



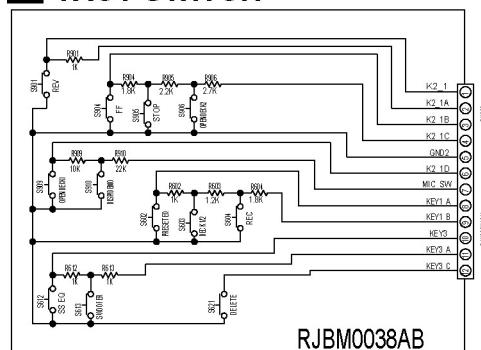
SCHEMATIC DIAGRAM - 5



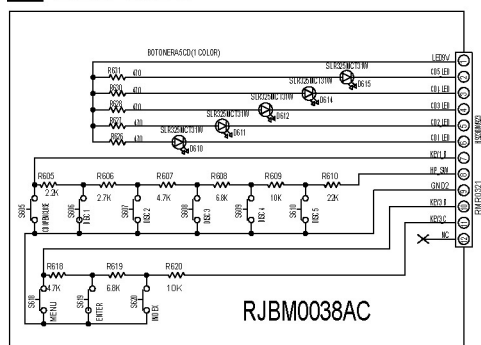


SCHEMATIC DIAGRAM - 7

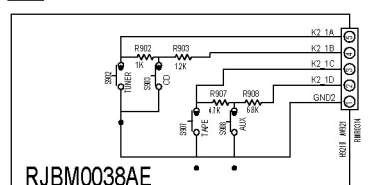
D TACT SWITCH



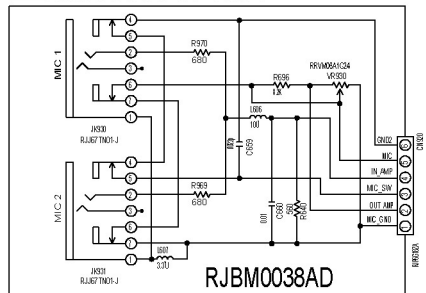
L LED DISC



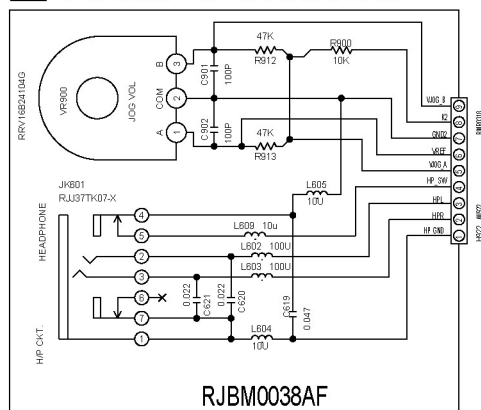
P FUNCTION



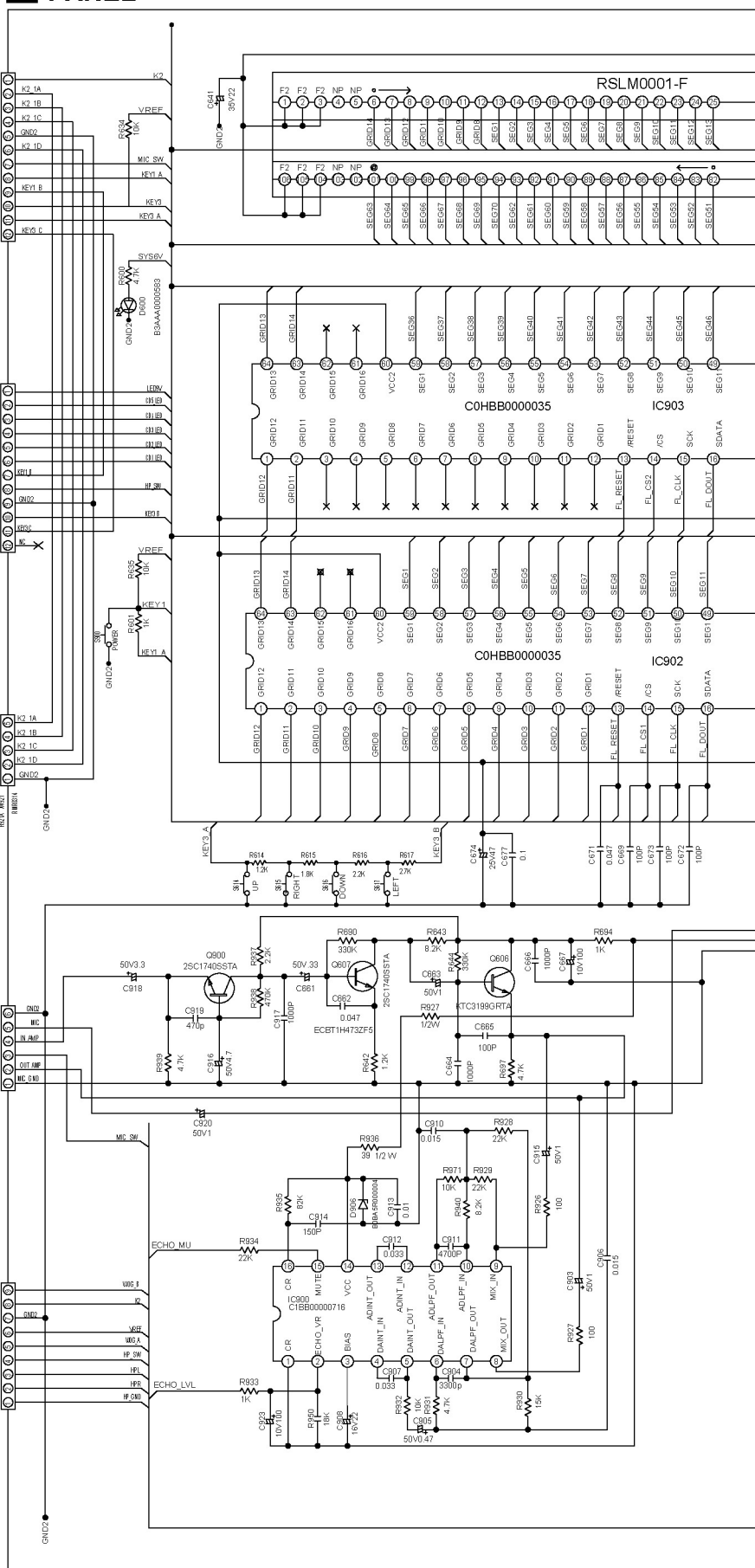
S MICROPHONE



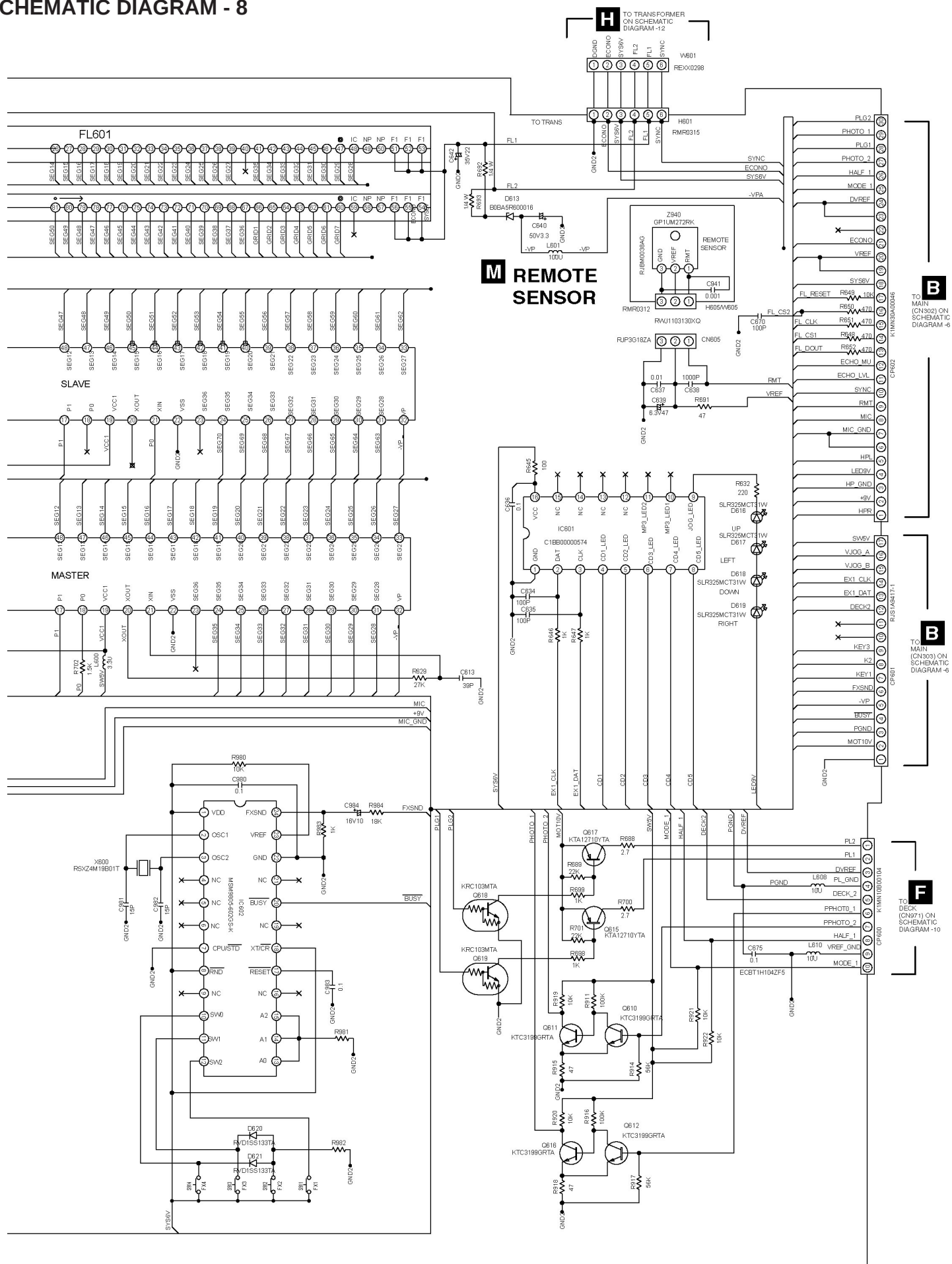
VOLUME & HEADPHONE



C PANEL



SCHEMATIC DIAGRAM - 8

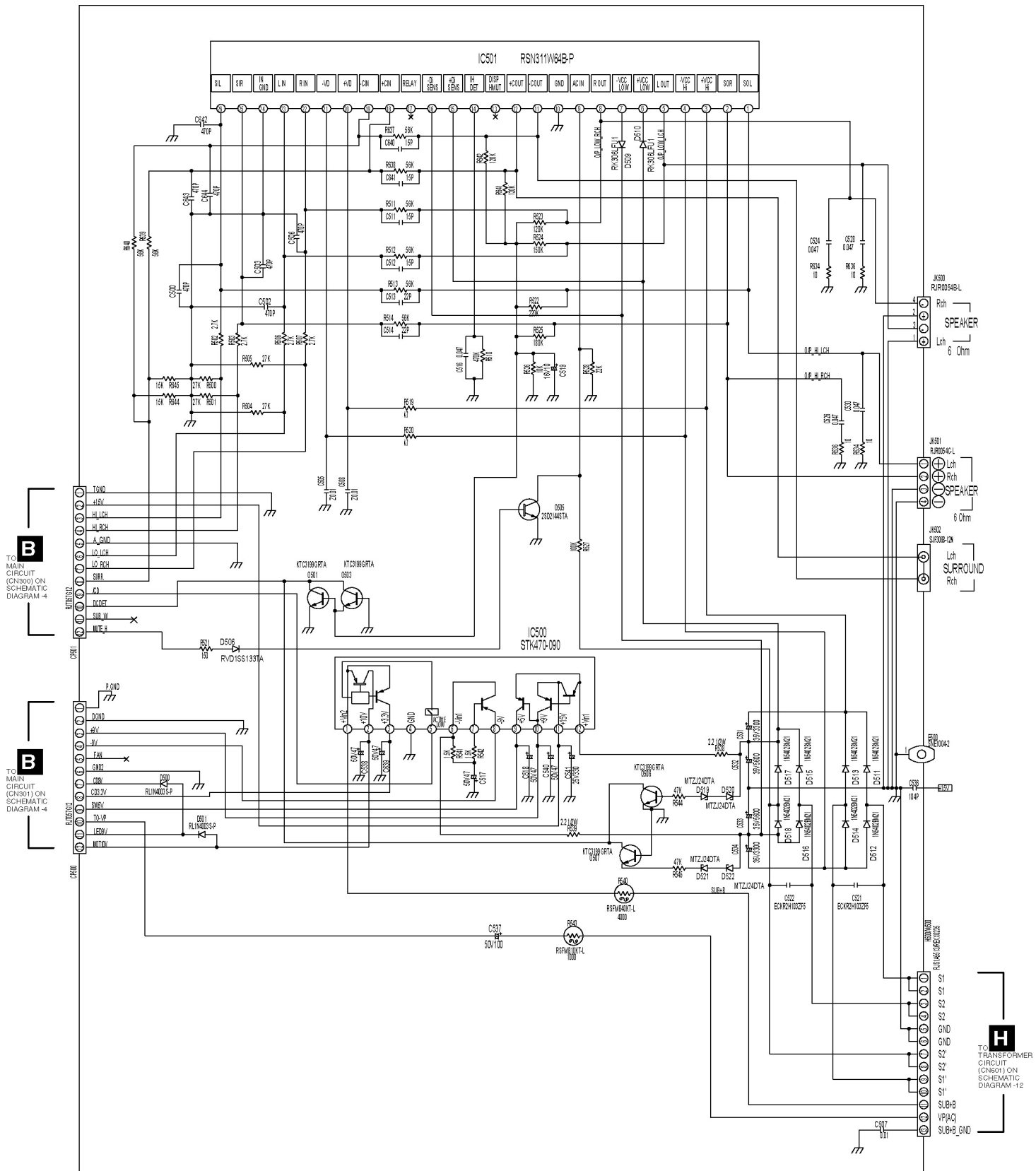


— : +B SIGNAL LINE : PLAYBACK SIGNAL LINE
 - - : -B SIGNAL LINE : RECORD SIGNAL LINE



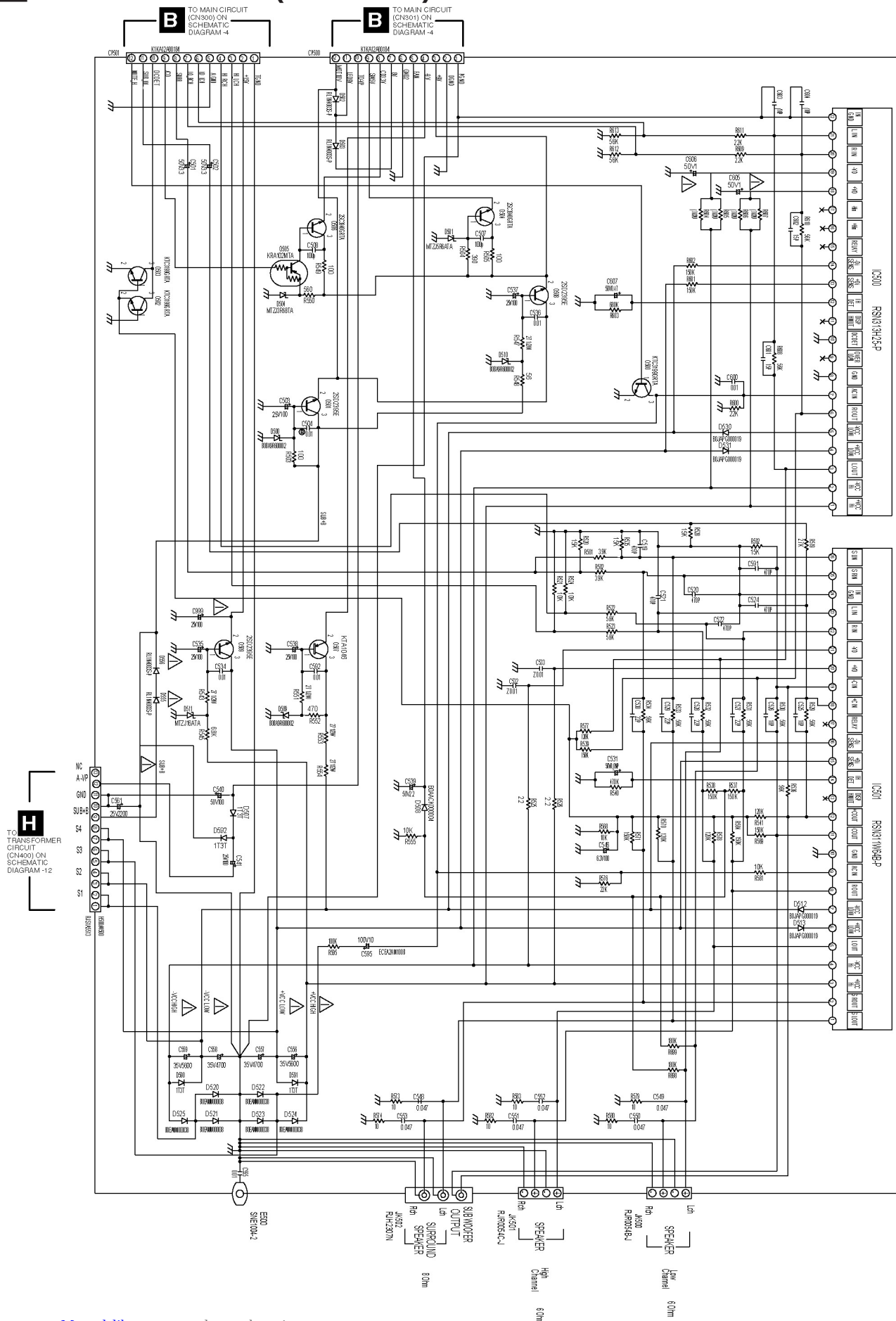
SCHEMATIC DIAGRAM - 11

G POWER CIRCUIT (SC-HM810)



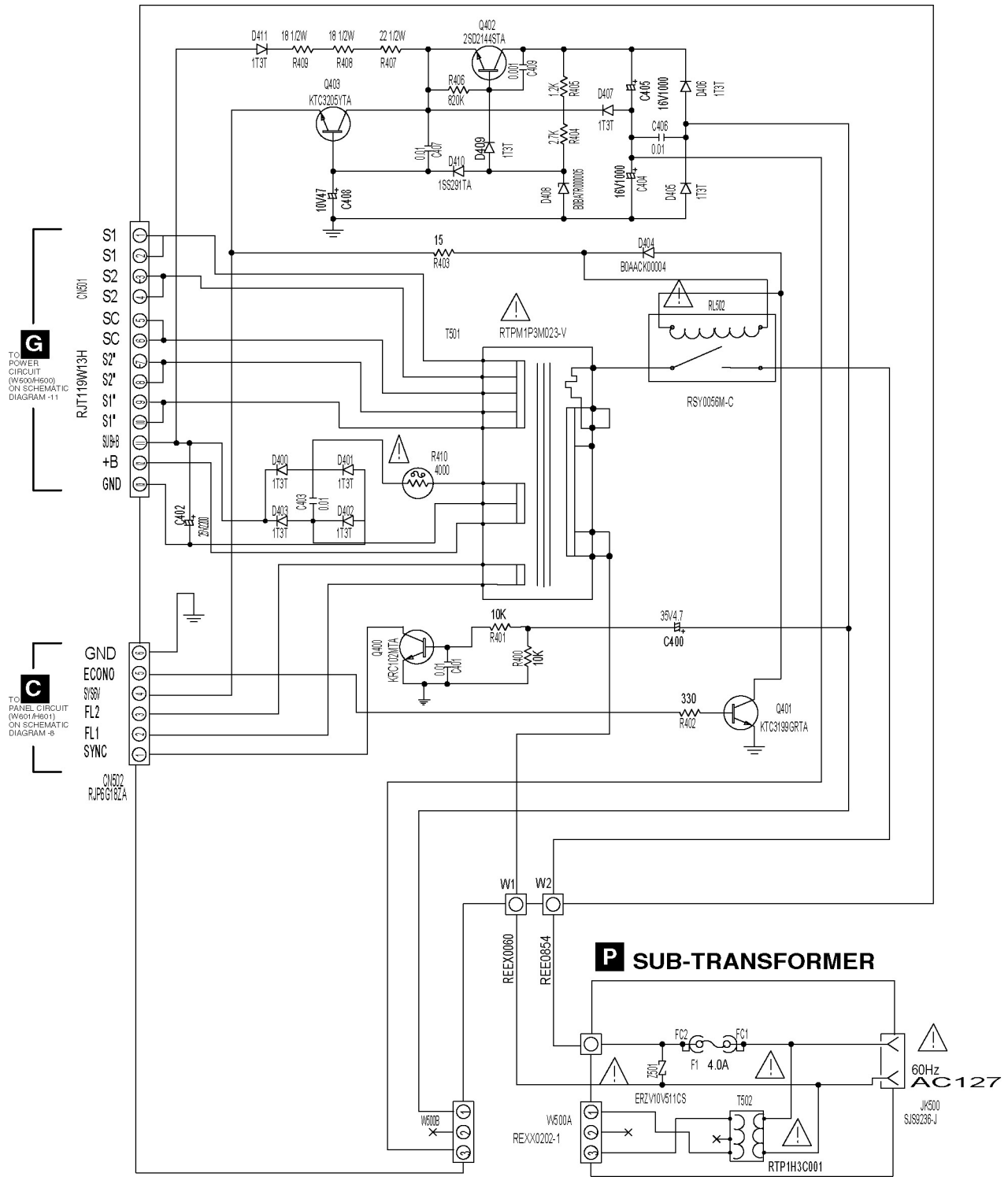
SCHEMATIC DIAGRAM - 11

G POWER CIRCUIT (SC-HM910)



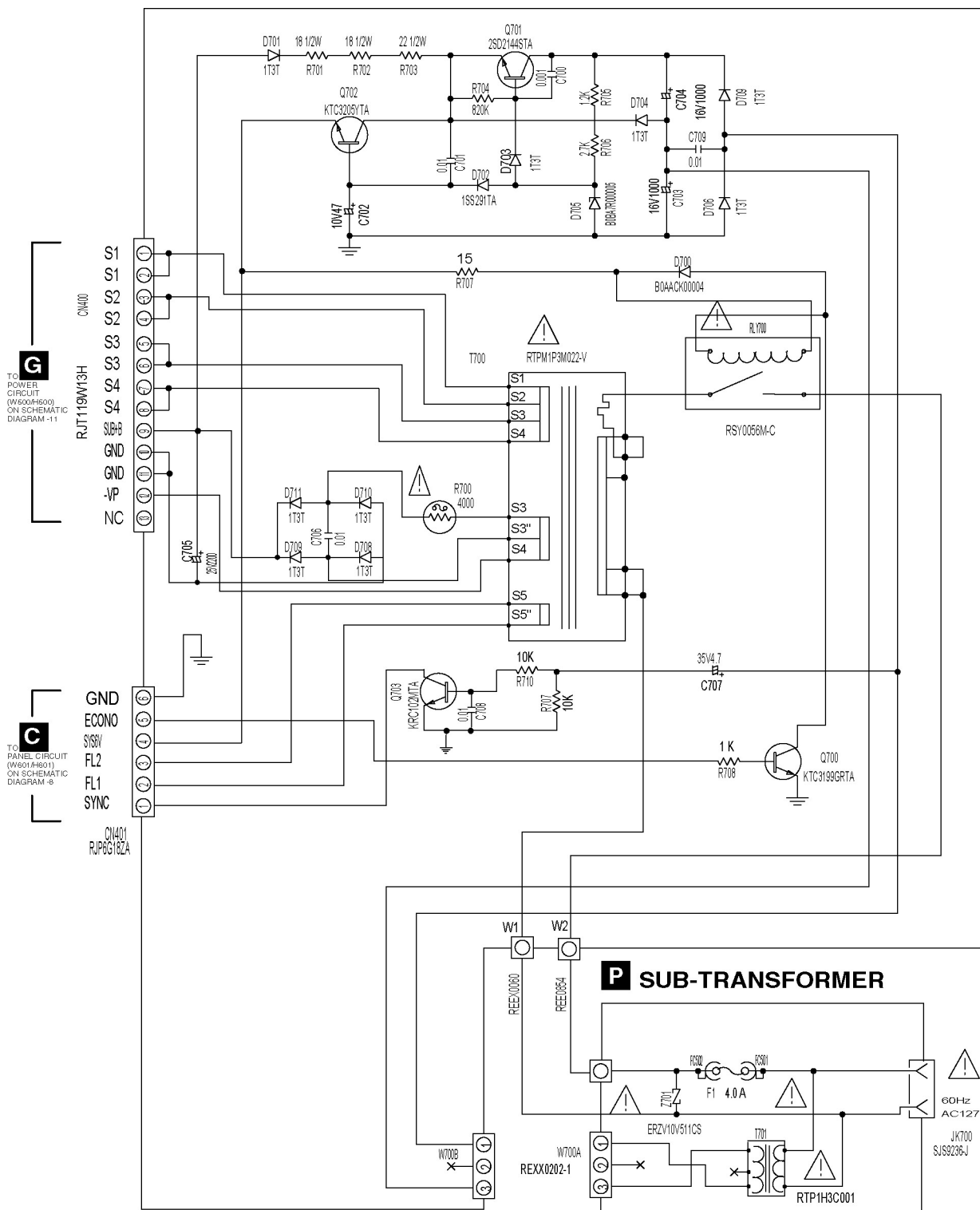
SCHEMATIC DIAGRAM - 12

H TRANSFORMER CIRCUIT (SC-HM810)

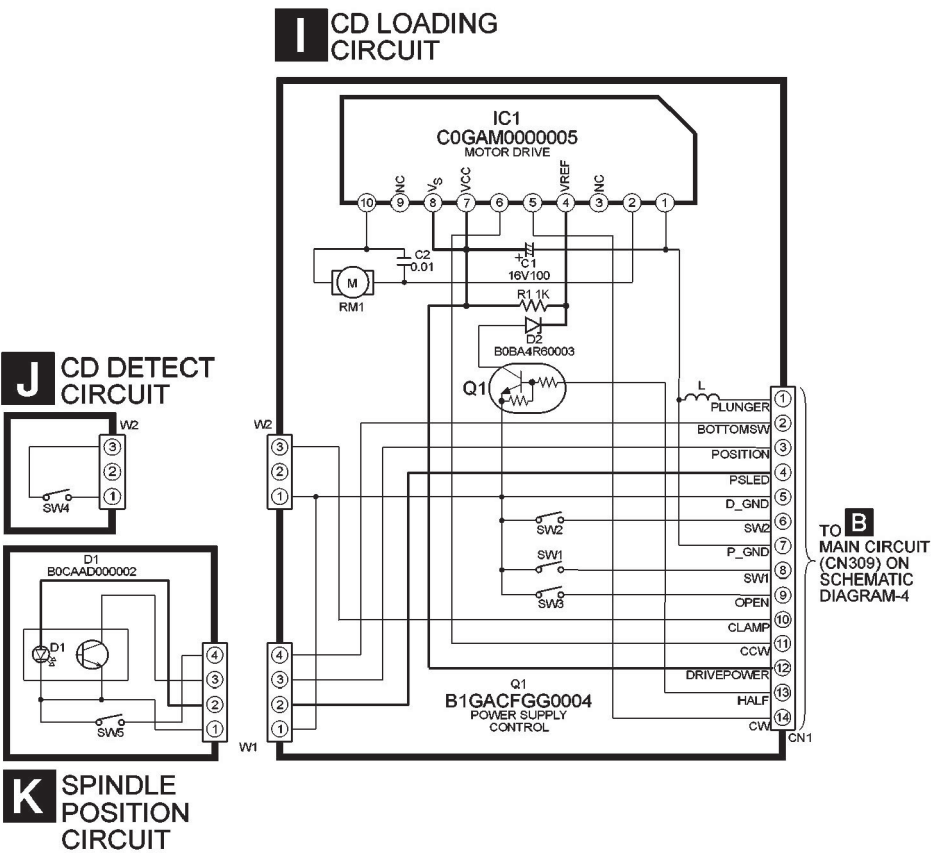


SCHEMATIC DIAGRAM - 12

H TRANSFORMER CIRCUIT (SC-HM910)



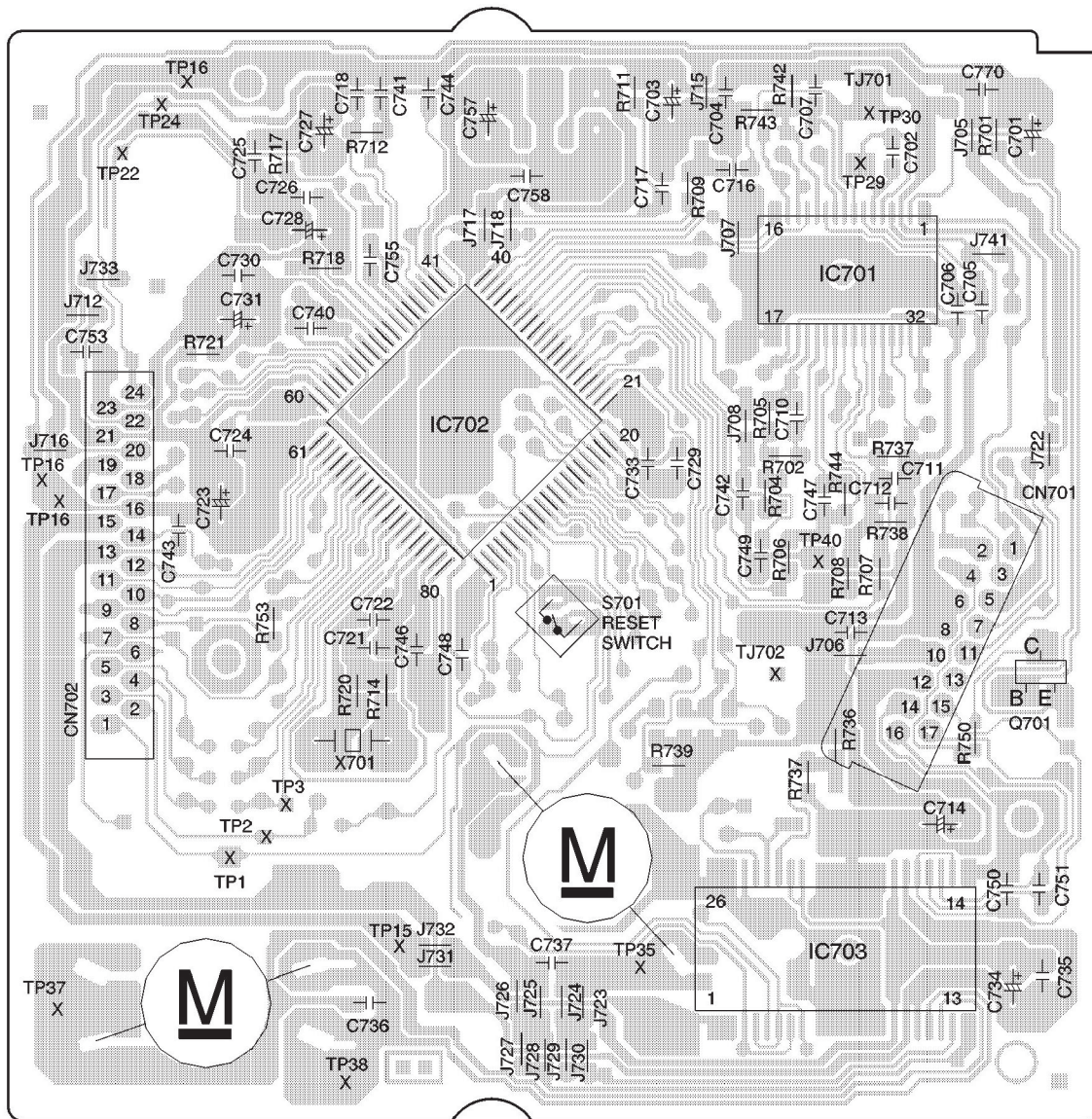
SCHEMATIC DIAGRAM - 13



14 Printed Circuit Board

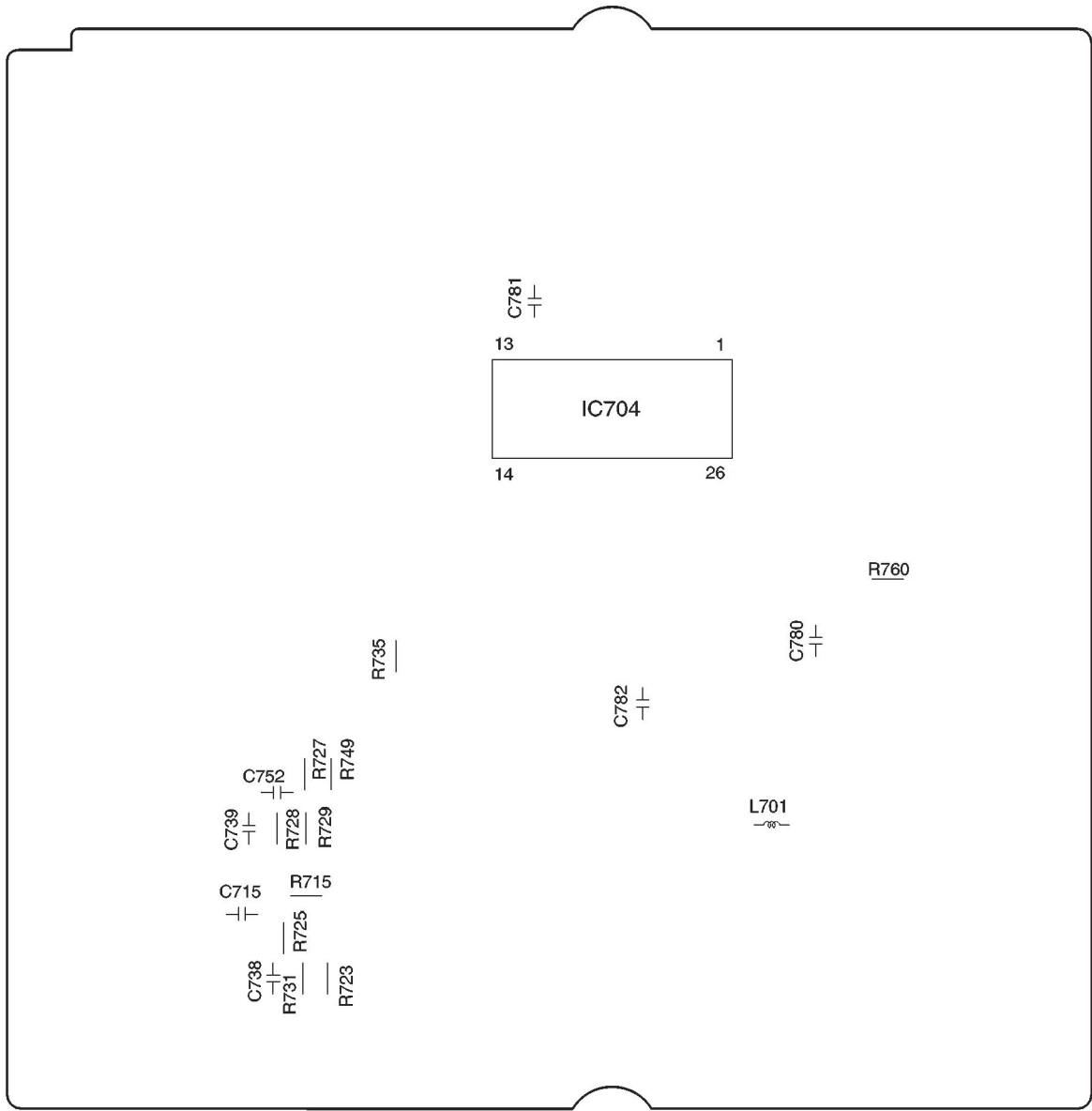
Note: Circuit board diagrams may be modified any time with the development of new technology.

A CD SERVO P.C.B (REPX0361A)



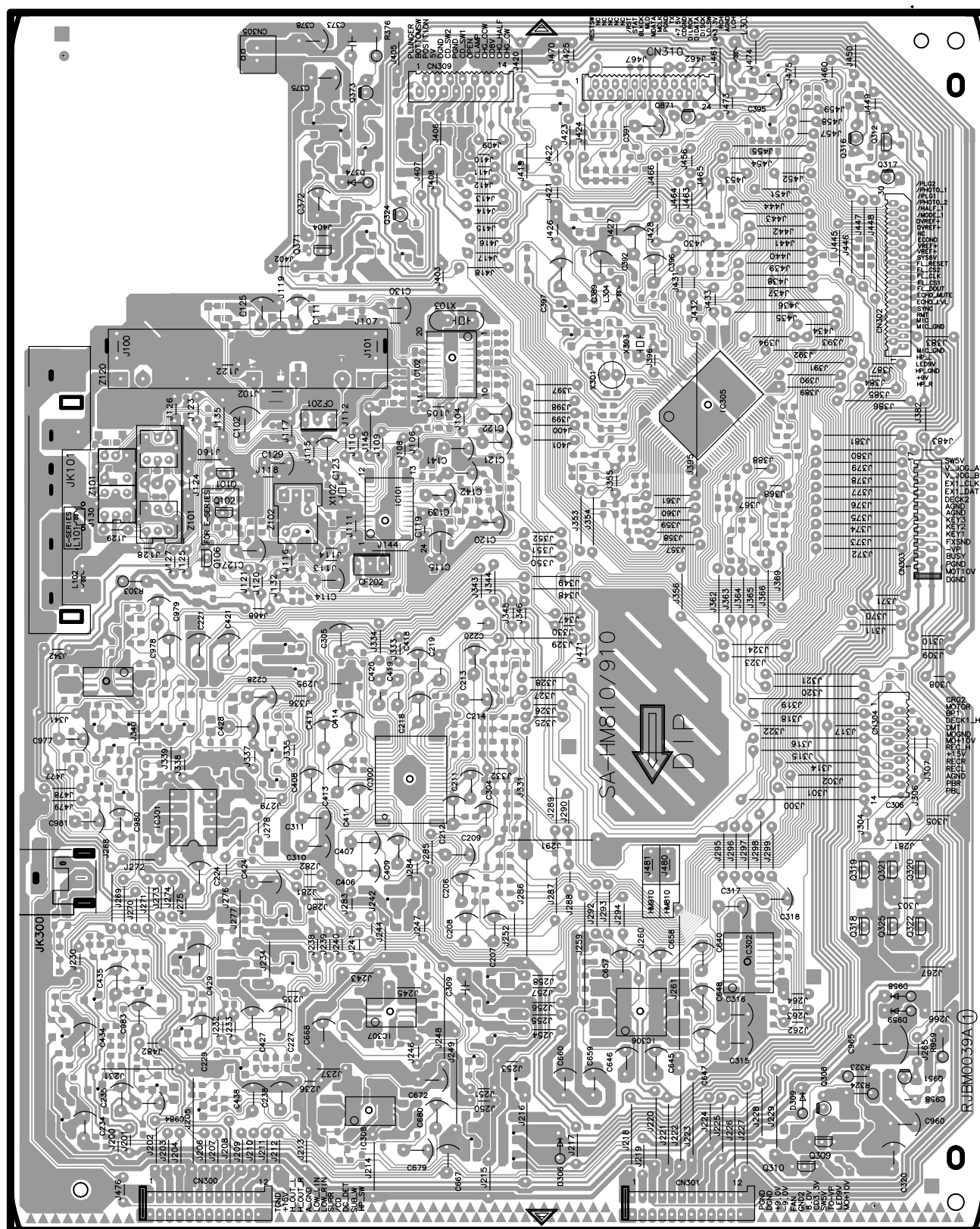
(SIDE: A)

A CD SERVO P.C.B (REPX0361A)

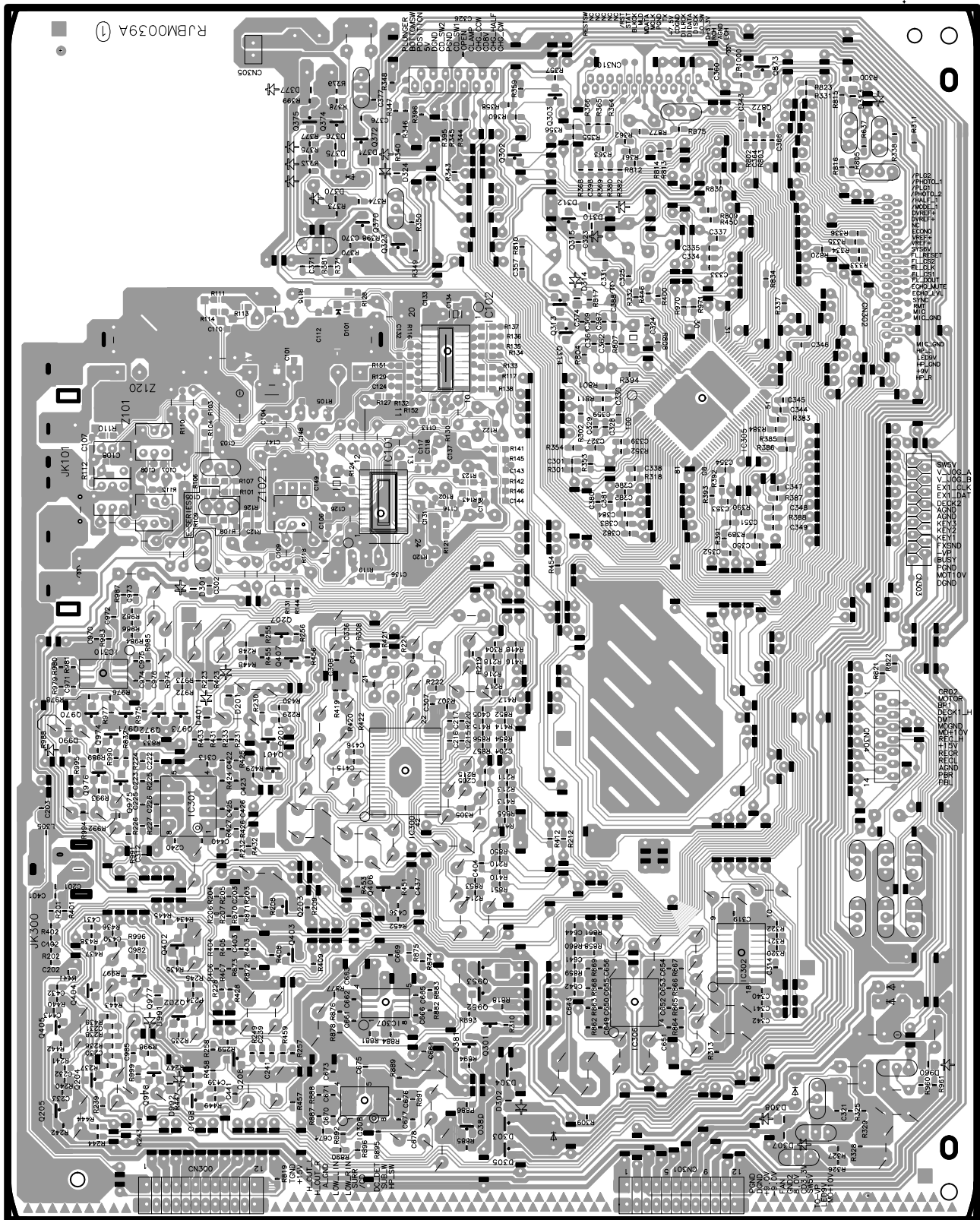


(SIDE: B)

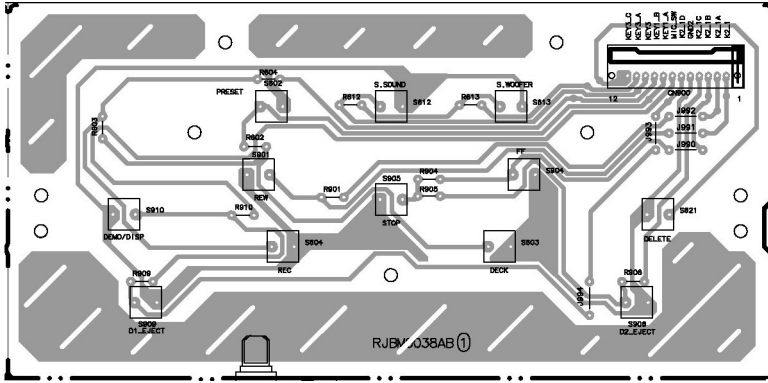
B MAIN CIRCUIT



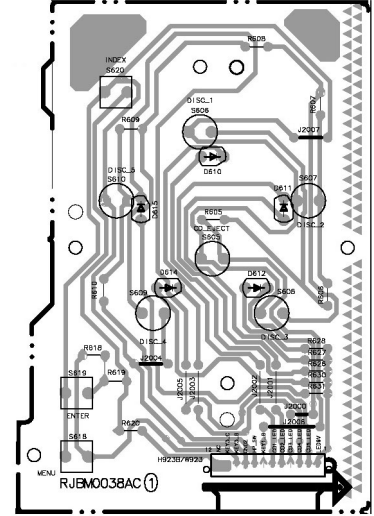
B MAIN CIRCUIT SMT



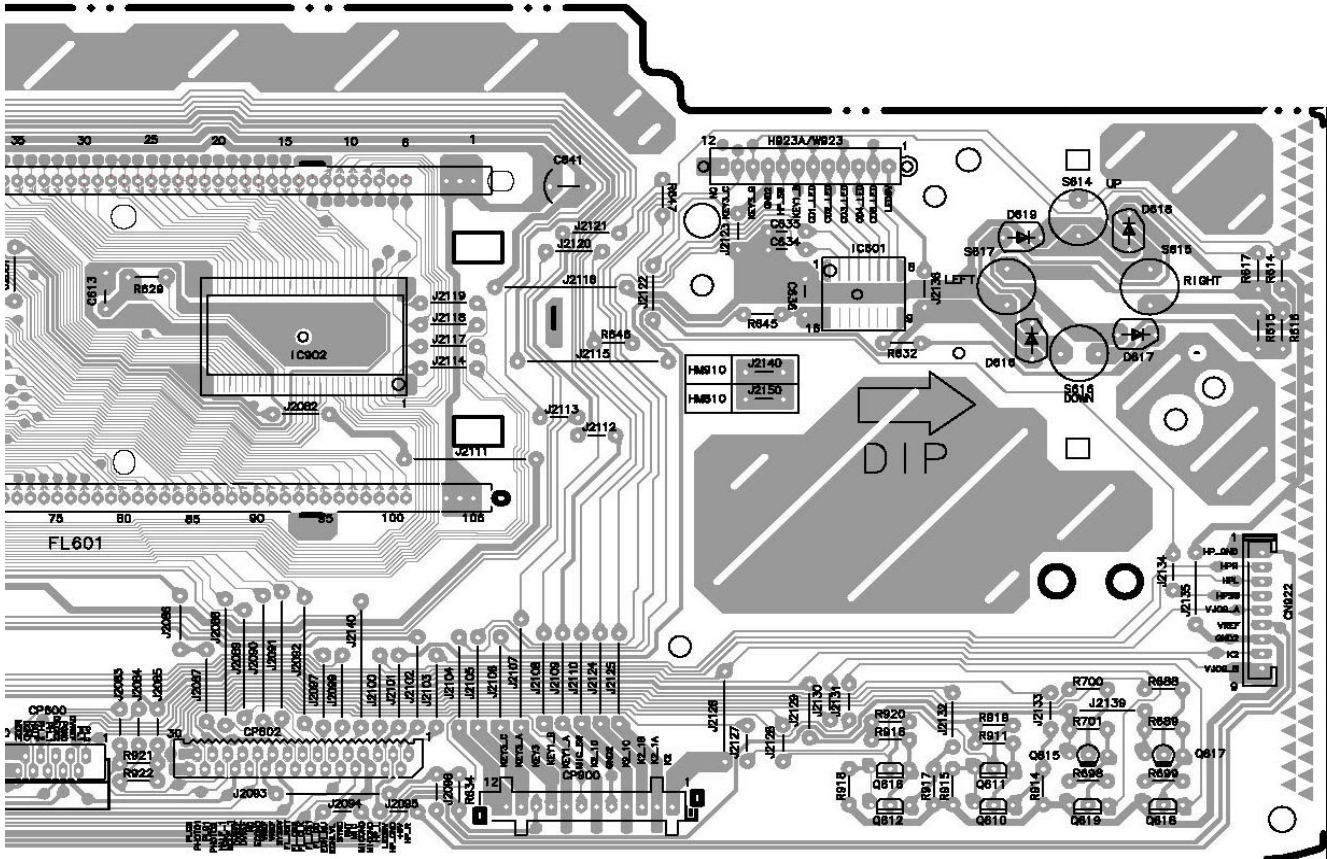
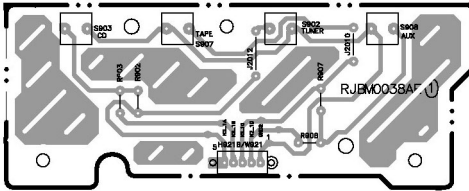
D TACT SWITCH CIRCUIT

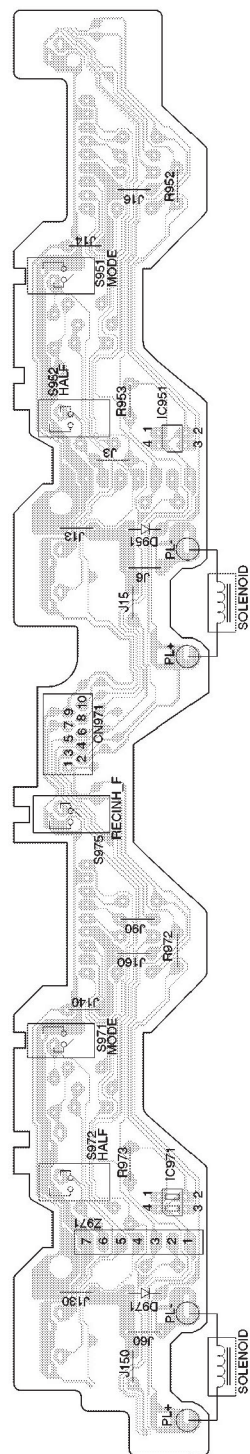
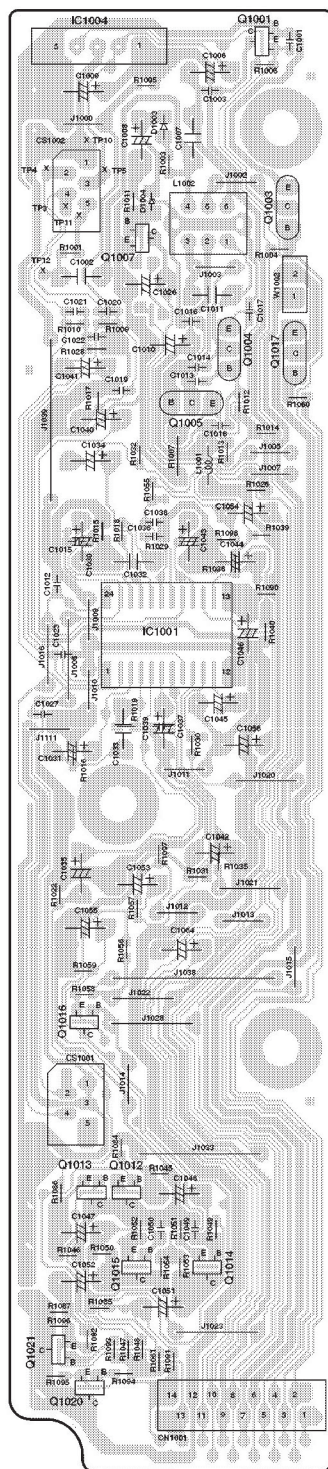


L LED DISC CIRCUIT

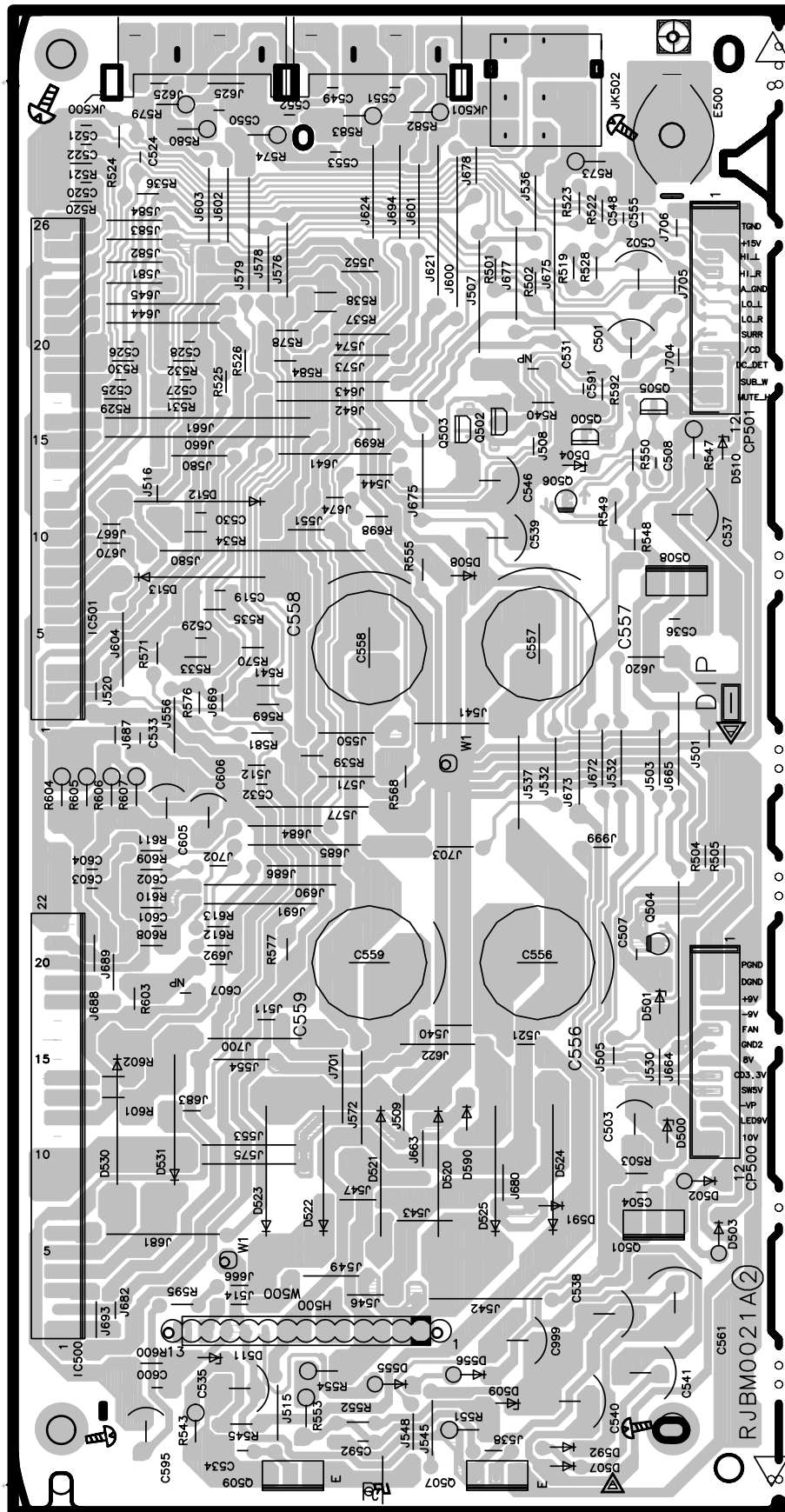


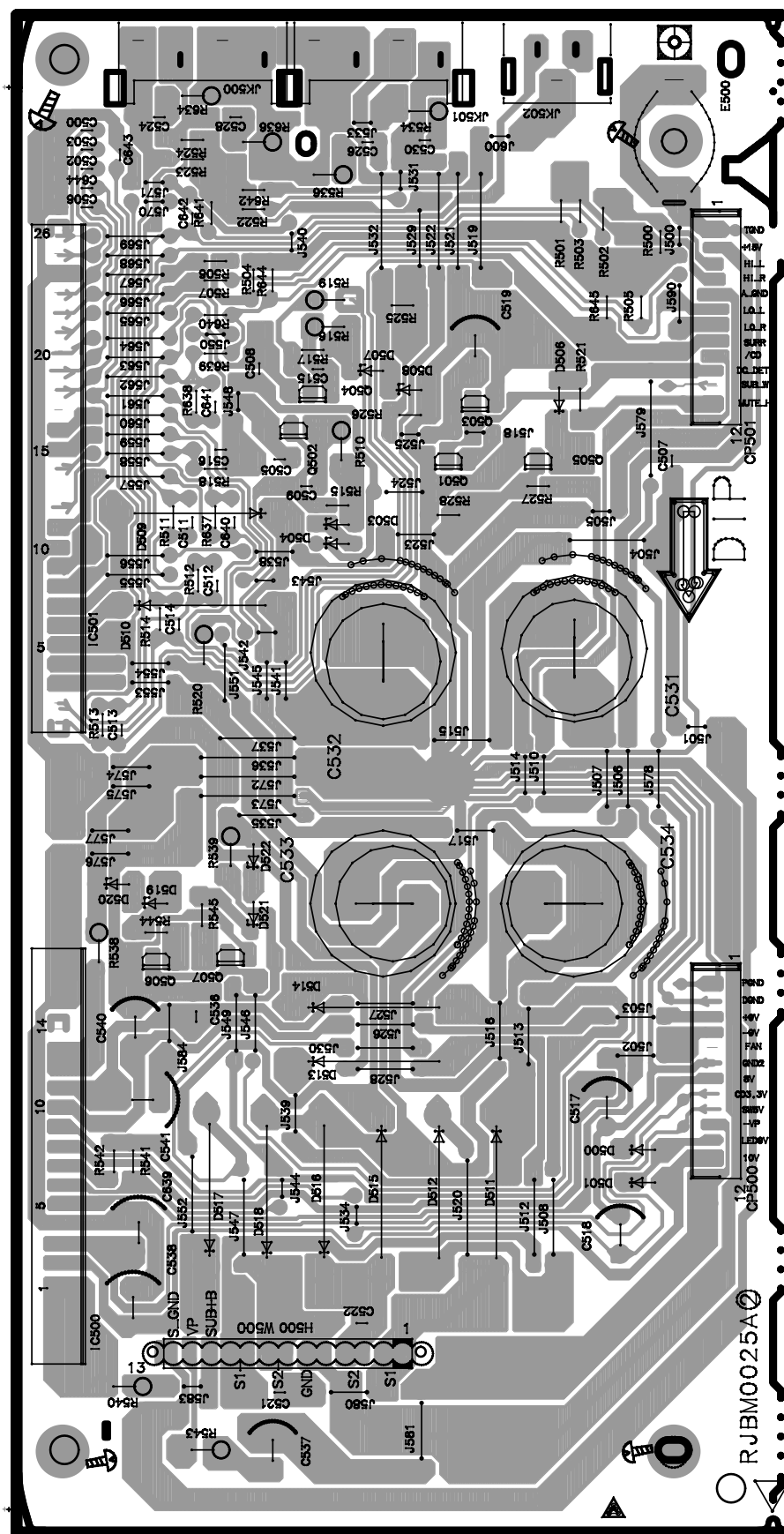
P FUNCTION CIRCUIT



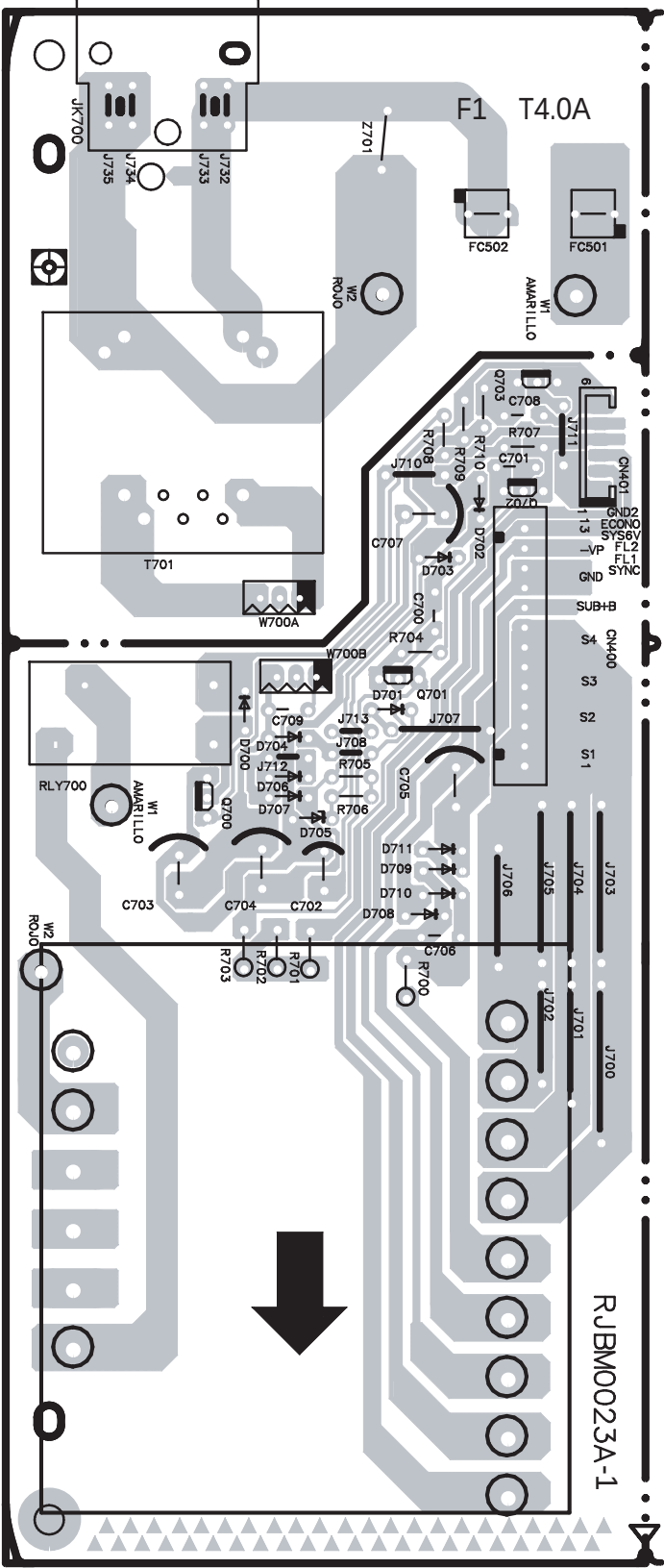


G POWER CIRCUIT (SC-HM910)

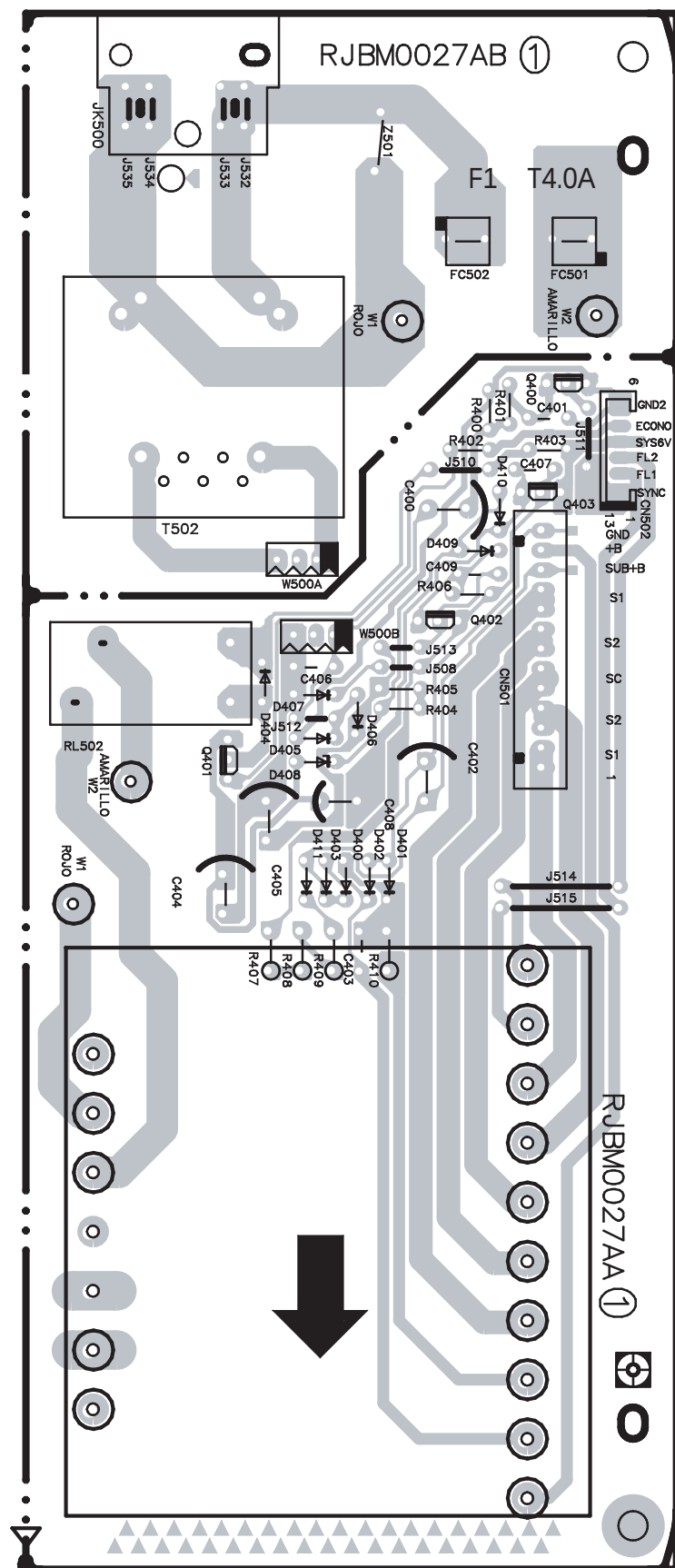


G POWER CIRCUIT (SC-HM810)

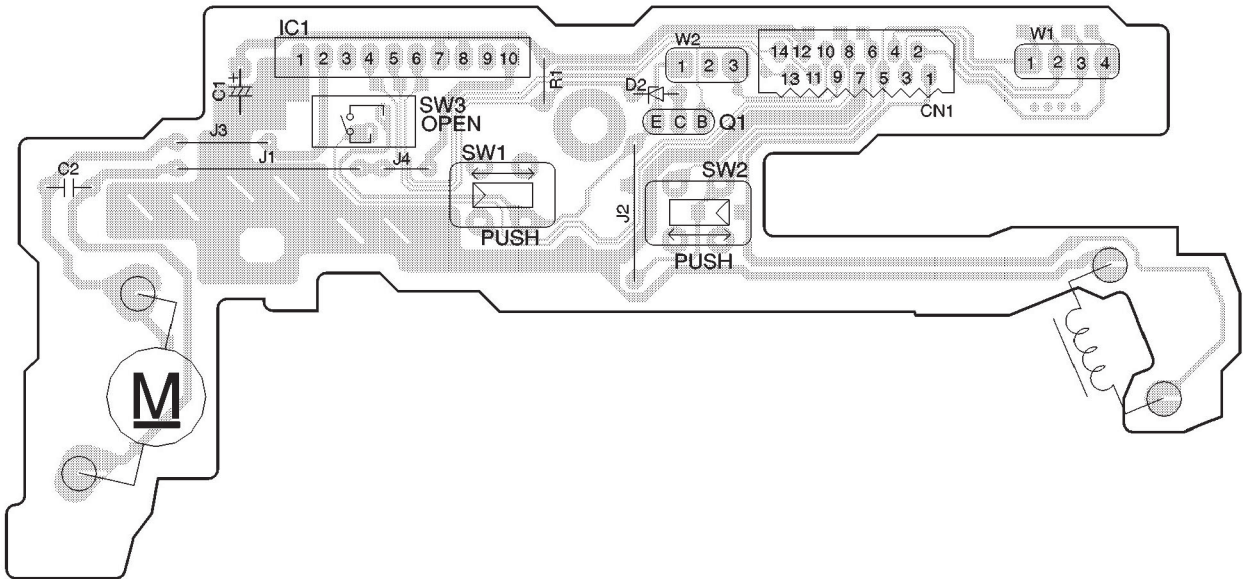
H TRANSFORMER CIRCUIT (SC-HM910)



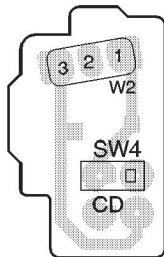
H TRANSFORMER CIRCUIT (SC-HM810)



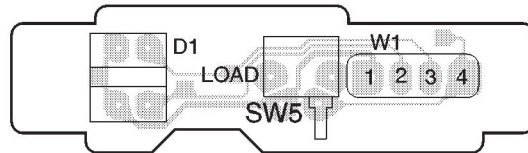
I CD LOADING P.C.B (REP2578A-N)



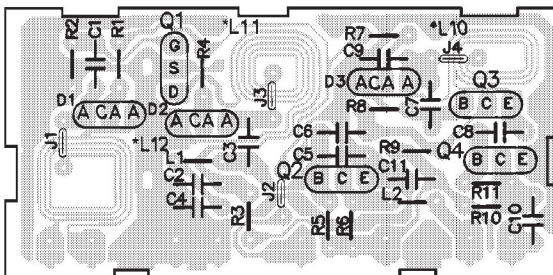
J CD DETECT P.C.B
(REP2578A-N)



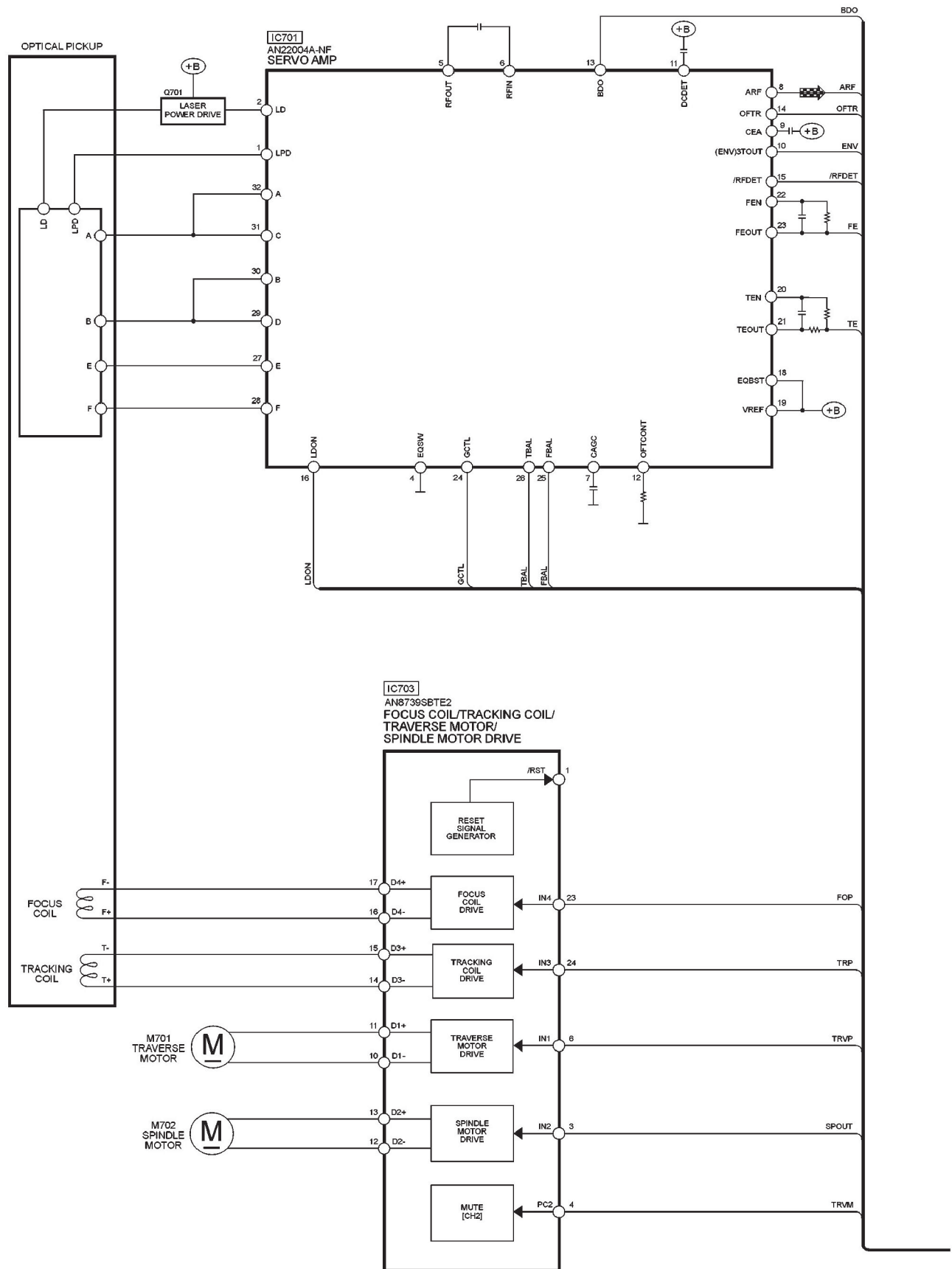
K SPINDLE POSITION P.C.B
(REP2578A-N)

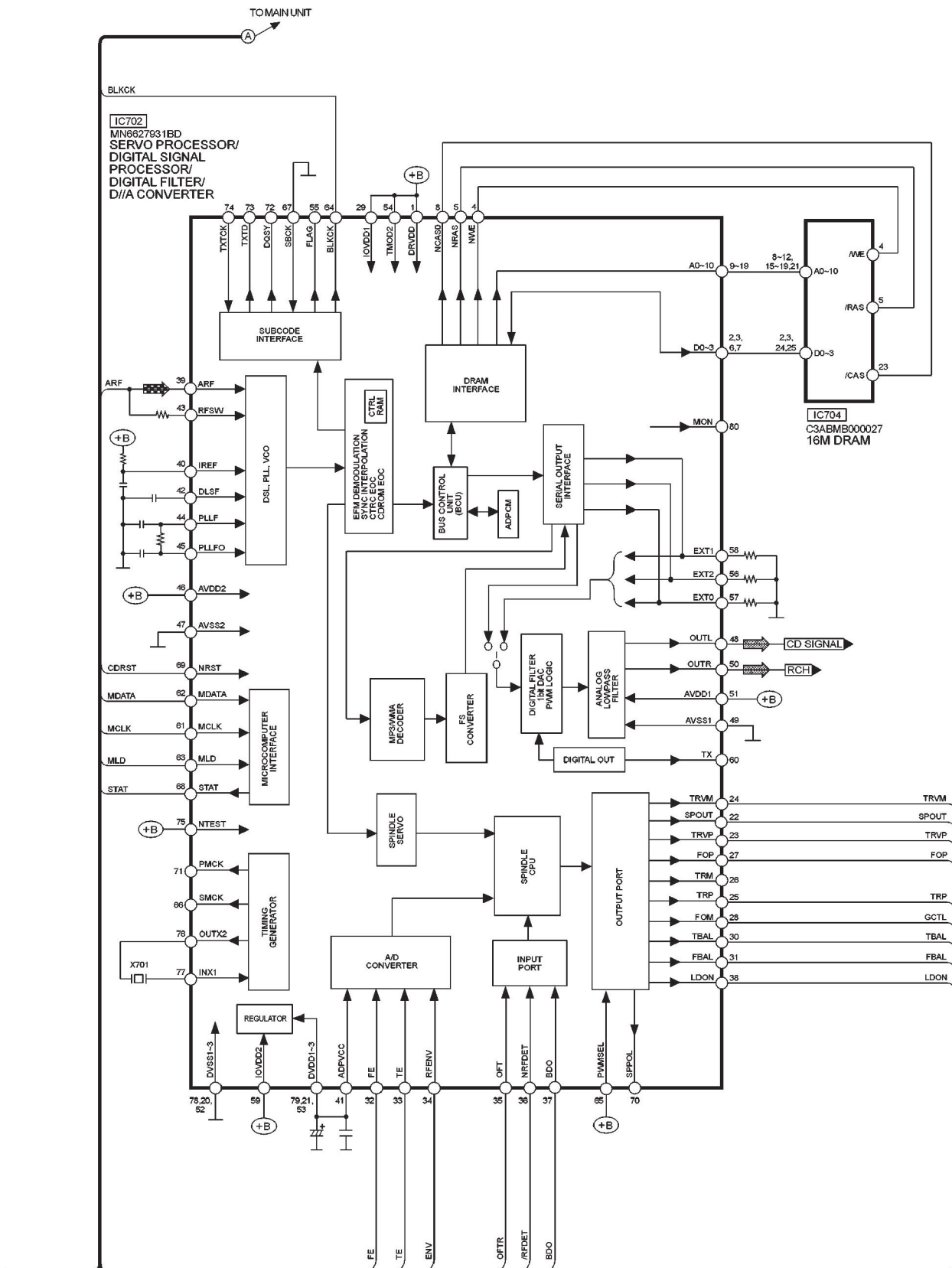


N TUNER PACK P.C.B (REP1999B)

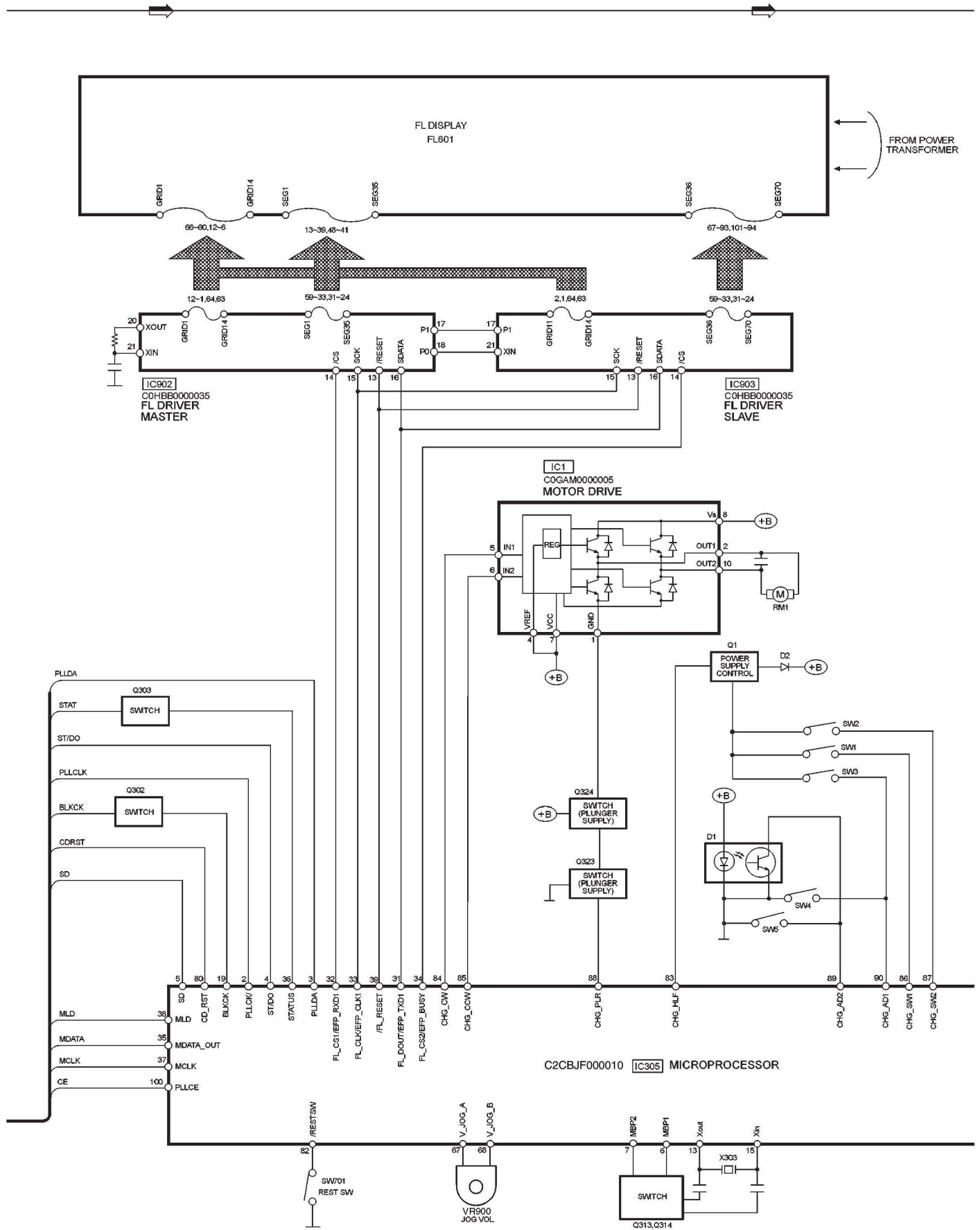


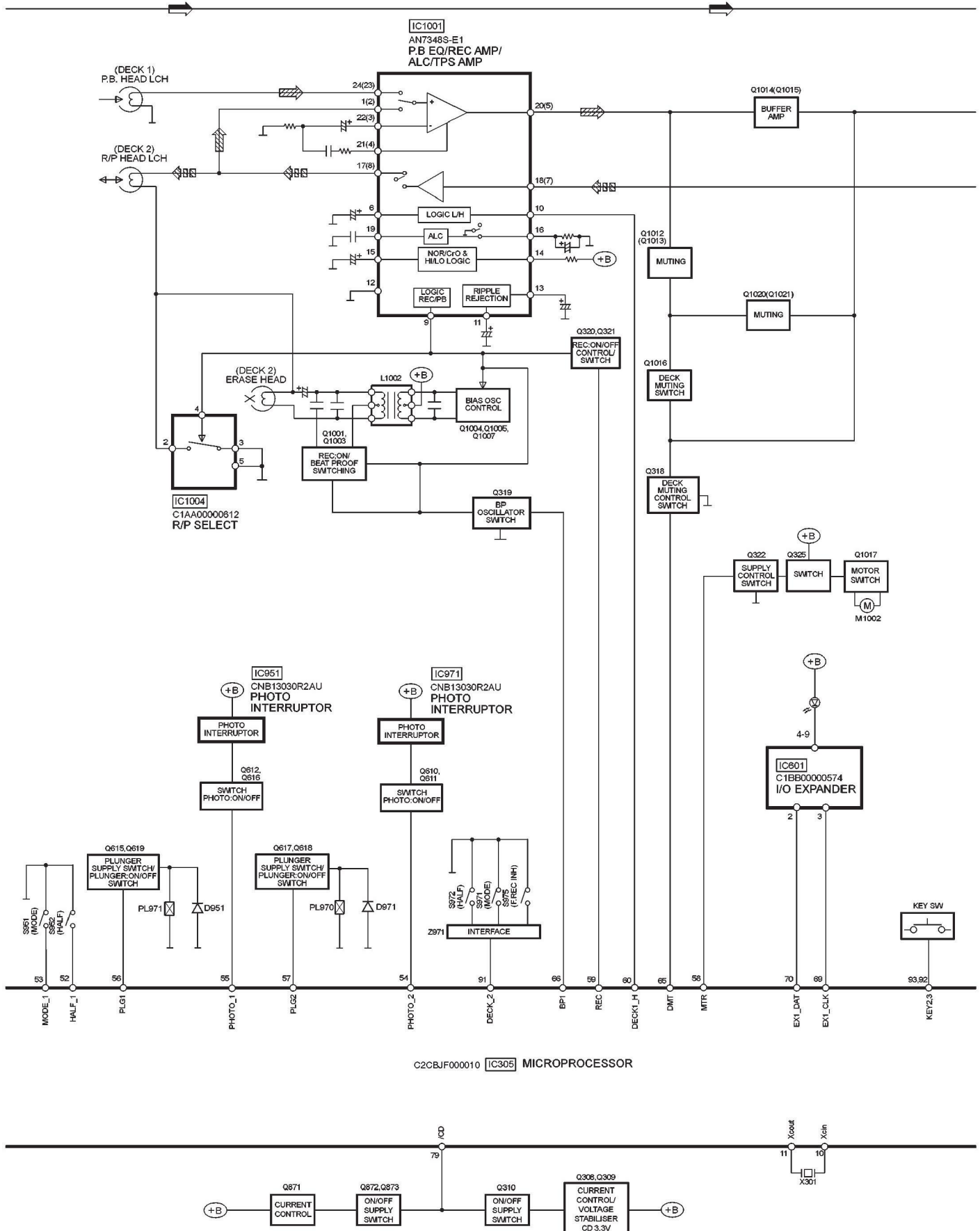
15 Block Diagram

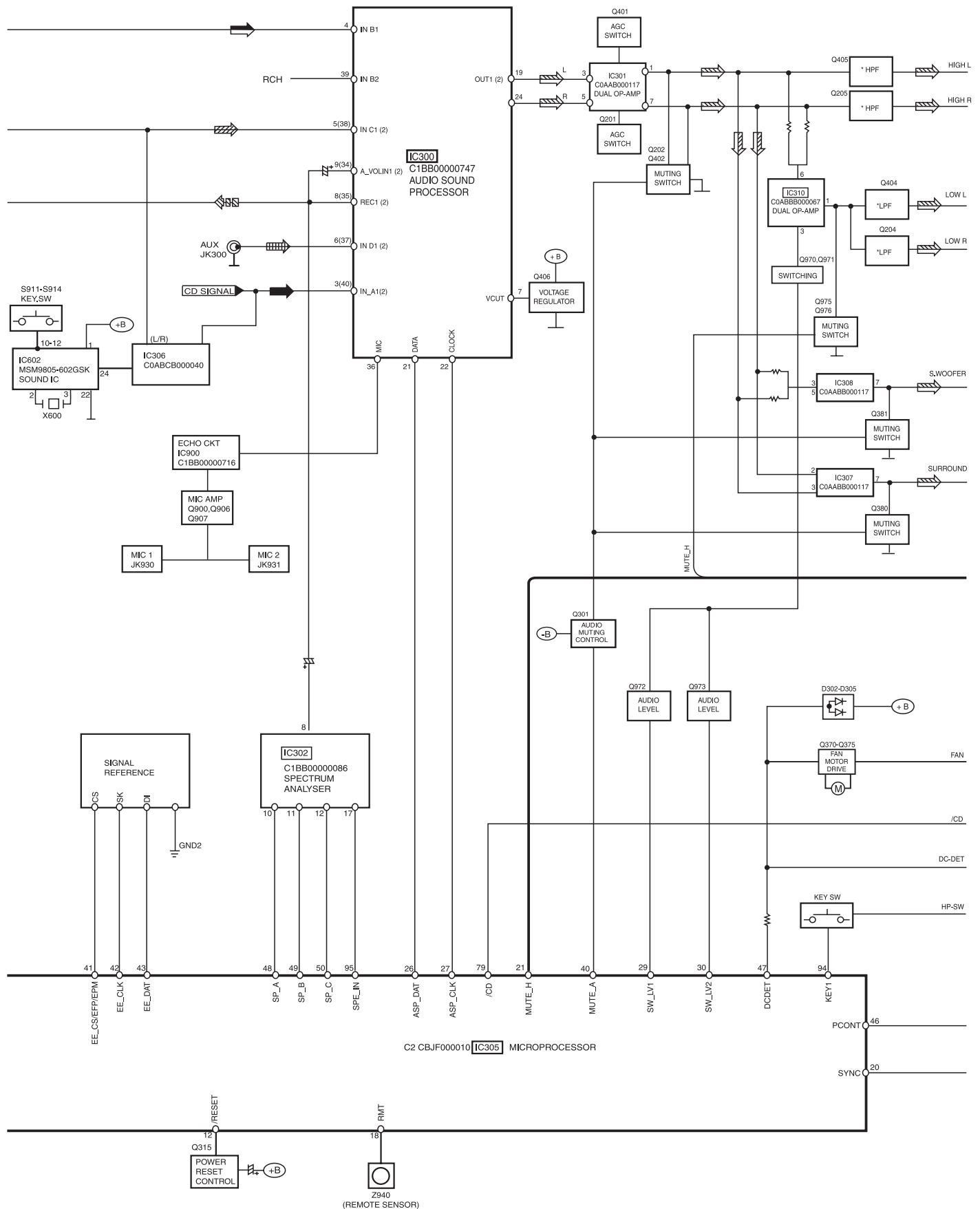






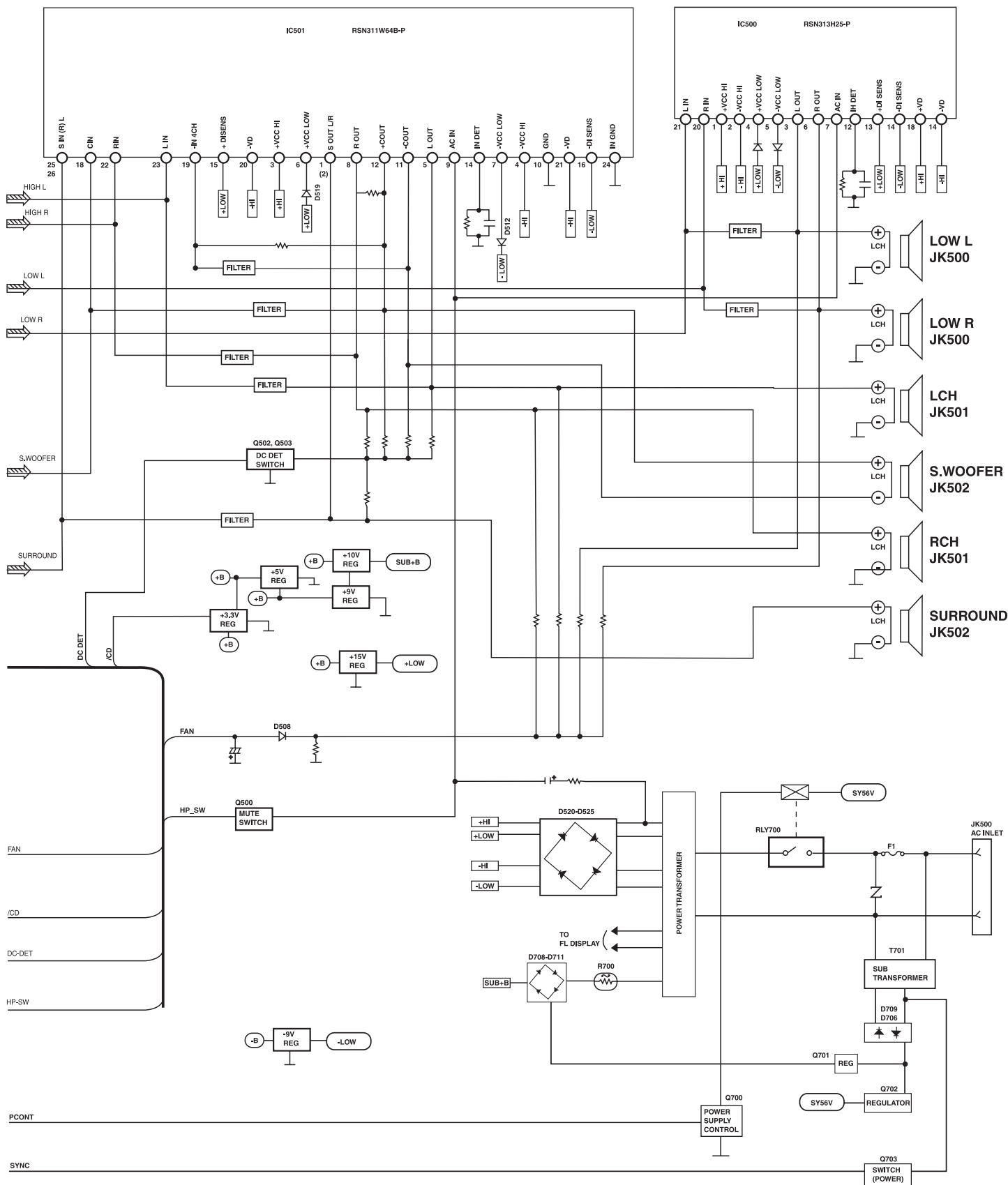






* HPF = HIGH PASS FILTER
* LPF = LOW PASS FILTER

SC-HM910



SIGNAL LINES

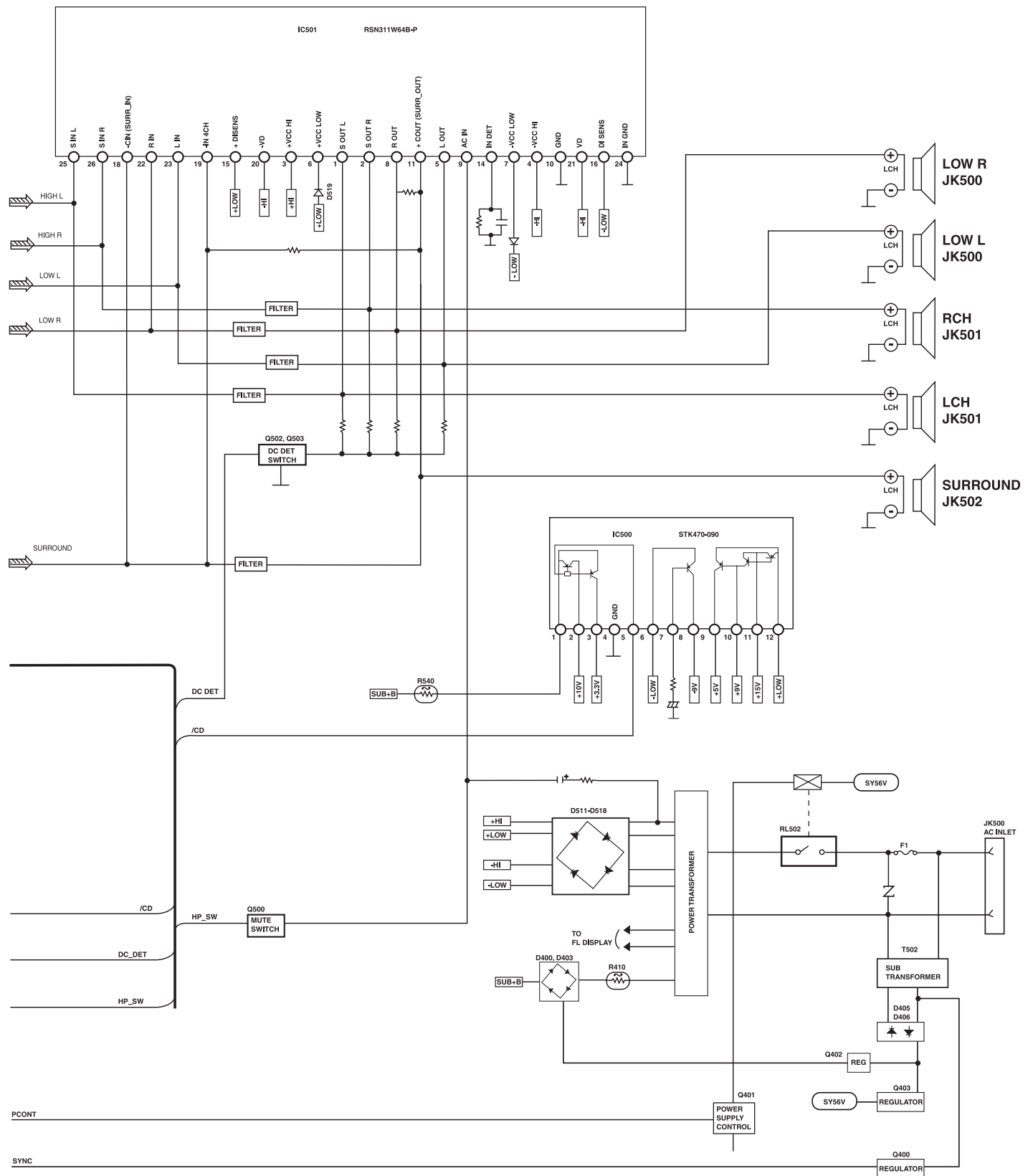
* REG = REGULA

	: MAIN SIGNAL LINE		: AM SIGNAL LINE		: CD SIGNAL LINE		: PLAYBACK SIGNAL LINE
	: FM SIGNAL LINE		: AM OSC SIGNAL LINE		: CD-DA (AUDIO /VIDEO) SIGNAL LINE		: RECORD SIGNAL LINE
	: FM OSC SIGNAL LINE		: FM /AM SIGNAL LINE		: AUX SIGNAL LINE		

() Indicates the Pin No. of Right Channel.

NOTE : Signal Lines are applicable to the Left Channel only.

SC-HM810



* REG = REGU

SIGNAL LINES

 : MAIN SIGNAL LINE

➡ : AM SIGNAL LINE

➡ : CD SIGNAL LINE

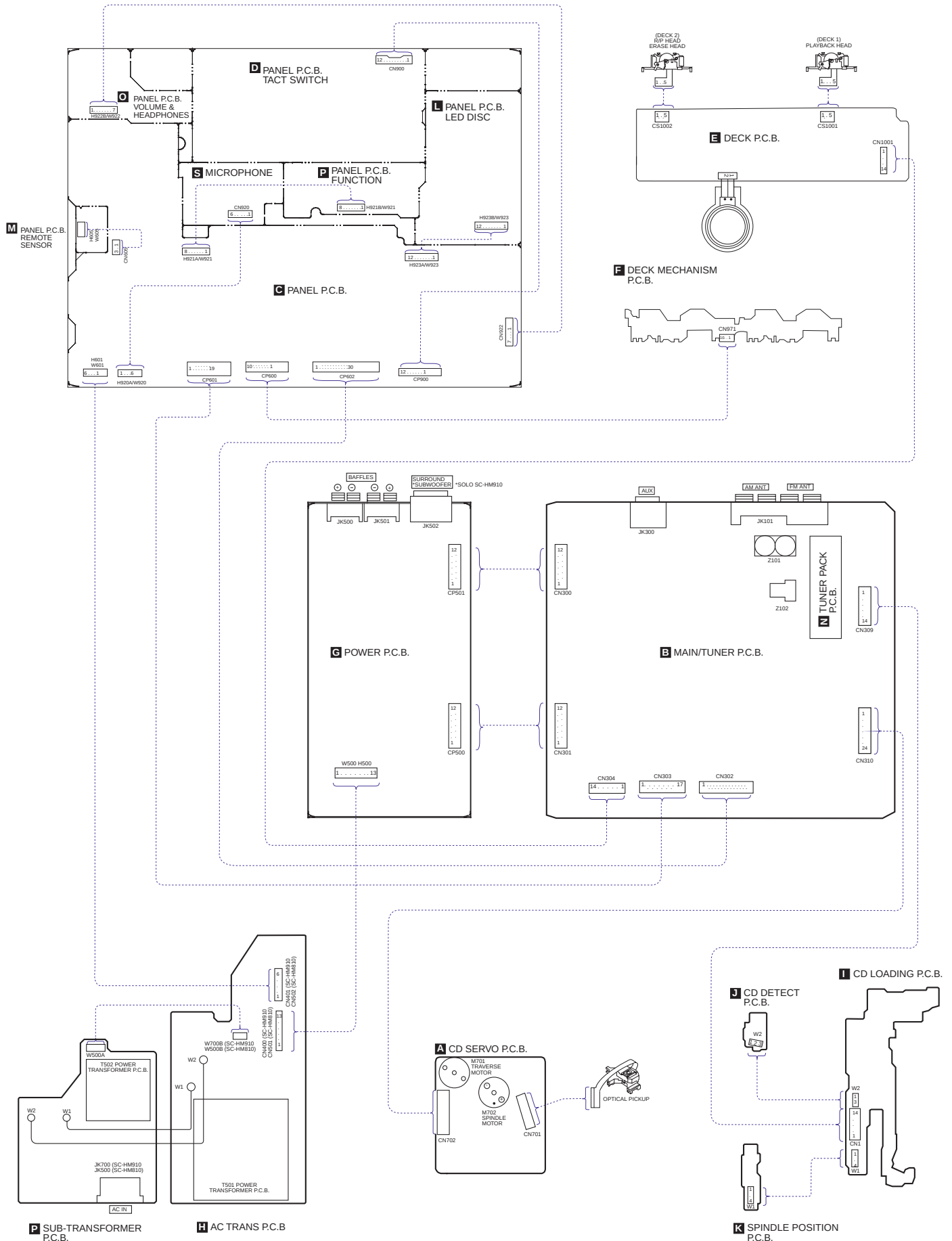
 : PLAYBACK SIGNAL LINE

⇒ : FM SIGNAL LINE

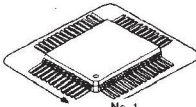
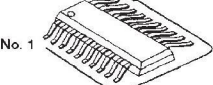
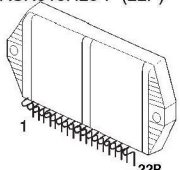
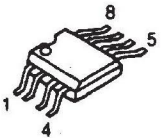
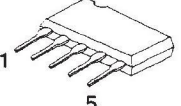
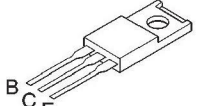
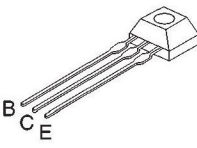
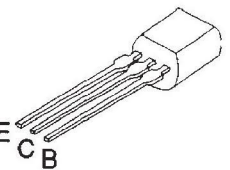
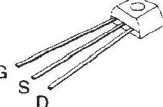
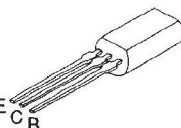
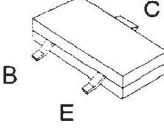
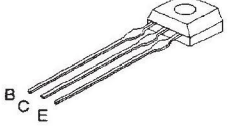
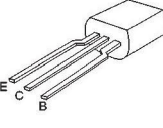
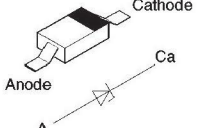
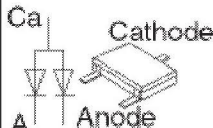
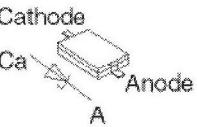
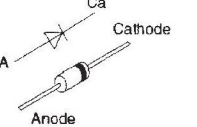
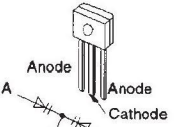
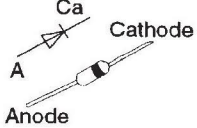
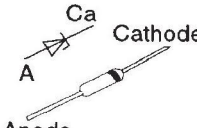
 : CD-DA (AUDIO / VIDEO) SIGNAL LINE

E500

16 Wiring Connection Diagram



17 Illustration of IC's Transistors and Diodes

C2CBJF000010 (100P) 	AN7348S-E1 (24P) C0HBB0000035 (64P) C1BB00000086 (18P) C1BB00000574 (16P) C1BB00000716 (16P) C1BB00000747 (42P) LA1833NMNTLM (24P) LC72131MDTRM (20P)	MSM9805-602GS-K (24P) 	RSN311W64B-P (26P) RSN313H25-P (22P) 	C0AABB000117 C0ABBB000067 
C1AA00000612 	KTA1046 2SD2395E 		KRA110MTA KRC102MTA KRC103MTA 	
2SB621ARSTA KTA12710YTA KTC3205YTA KTD1146YTA 	2SK544F-AC 	2SC3940ARA KRC114STA 	B1ABCF000011 B1ADCF000001 KRA102STA KRC101STA KRC102STA KTD1304TA 	
2SC2058SPTA 	2SC1740SSTA 2SC2786MTA 2SC2787FL1TA B1AAGC000007 KRA102MTA KTA1267GRTA KTA1504GRTA KTC3199GRTA 	2SD0592ARA 	MA728TX 	B0ADCJ000020 
1SS380TE-17 B0ACCK000005 B0BC3R700004 B0BC5R000009 B0BC7R500001 MA8300MTX UDZSTE1710B 		1T3T B0AAMM000009 B0EAMM000038 B0JAPG000019 RL1N4003S-P 		SVC211SPA-AL 
1SS291TA B0AACK000004 MA2J72800L MA2J72900L 	B0BA5R000004 B0BA5R600016 B0BA7R000005 B0BA9R600002 MTZJ16ATA MTZJ3R6BTA MTZJ5R6ATA 			

18 Terminal Function of IC's

18.1. IC701 (AN22004A-NF) Servo Amplifier

Pin No.	Mark	I/O	Function
1	LPD	I	APC Amp input terminal
2	LD	O	APC Amp. output terminal
3	VCC	I	Power source terminal
4	EQSW	-	Ground
5	RFOUT	O	RF summing Amp output terminal
6	RFIN	I	AGC input terminal
7	CAGC	I	AGC loop filter connecting capacitor terminal
8	ARF	O	AGC output terminal
9	CEA	I	HPF Amp connecting capacitor terminal
10	(ENV) 3TOUT	O	3TOUT output terminal
11	DCDET	I	Detection system's HPF connecting capacitor terminal
12	OFTCNT	O	PFTR detection level adjustment terminal
13	BDO	O	BDO output terminal
14	OFTR	O	OFTR output terminal
15	/RFDET	O	NRFDET output terminal
16	LDON	I	LDON terminal
17	GND	-	Ground
18	EQBST	-	Equalizer boost adjustment terminal
19	VREF	O	VREF output terminal
20	TEN	I	Amp inverting input terminal
21	TEOUT	O	TE amp output terminal
22	FEN	I	Amp inverting input terminal
23	FEOUT	O	FE amp output terminal
24	GCTL	I	GCTL terminal
25	FBAL	I	FBAL control terminal
26	TBAL	I	TBAL control terminal
27	E	I	Tracking signal input terminal 1
28	F	I	Tracking signal input terminal 2
29	D	I	Tracking signal input terminal 4
30	B	I	Tracking signal input terminal 2
31	C	I	Tracking signal input terminal 3
32	A	I	Tracking signal input terminal 1

18.2. IC702 (MN6627931BD) Servo processor/ Digital signal processor/ Digital filter/ D/A converter

Pin No.	Mark	I/O	Function
1	DRVDD	I	Power supply for DRAM interface (Pin 2 to 19 and 80)
2	D0	I/O	DRAM data I/O signal 0
3	D1	I/O	DRAM data I/O signal 1
4	NWE	O	DRAM write enable signal
5	NRAS	O	DRAM RAS control signal
6	D2	I/O	DRAM data I/O signal 2
7	D3	I/O	DRAM data I/O signal 3
8	NCAS0	O	DRAM CAS control signal 0
9	A10 (NCAS1)	O	DRAM CAS control signal 10
10	A8	O	DRAM address signal 8
11	A7	O	DRAM address signal 7
12	A6	O	DRAM address signal 6
13	A5	O	DRAM address signal 5
14	A4	O	DRAM address signal 4
15	A9	O	DRAM address signal 9
16	A0	O	DRAM address signal 0

Pin No.	Mark	I/O	Function
17	A1	O	DRAM address signal 1
18	A2	O	DRAM address signal 2
19	A3	O	DRAM address signal 3
20	DVSS2	I	Ground for digital circuits
21	DVDD2	I	Power supply for digital circuits
22	SPOUT	O	Spindle motor drive signal output (absolute value output)
23	TRVP	O	Traverse drive output (positive polarity output)
24	TRVM (PC)	O	Traverse drive output (negative polarity output)
25	TRP	O	Tracking drive output (positive polarity output)
26	TRM	O	Tracking drive output (negative polarity output)
27	FOP	O	Focus drive output (positive polarity output)
28	FOM	O	Focus drive output (negative polarity output)
29	IOVDD1	I	Power supply for I/O
30	TBAL	O	Tracking balance adjustment output
31	FBAL	O	Focus balance adjustment output
32	FE	I	Focus error signal input (analog input)
33	TE	I	Tracking error signal input (analog input)
34	RFENV	I	RF envelope signal input (analog input)
35	OFT	I	Off-track signal input High: Off-track
36	NRFDET	I	RF detection signal input Low: detection)
37	BDO	I	Dropout signal input High: Dropout
38	LDON	O	Laser ON signal output High: ON
39	ARF	I	RF signal input
40	IREF	I	Reference current input
41	ADPVCC	I	Voltage input for supply voltage monitor (analog input)
42	DSLIF	O	DSL loop filter
43	RFSW (DRF)	I	DSL loop filter
44	PLLIF	O	PLL loop filter
45	PLLFO	O	PLL loop filter
46	AVDD2	I	Power supply for analog circuits (for DSL, PLL and A/D)
47	AVSS2	I	Ground for analog circuits (for DSL, PLL and A/D)
48	OUTL	O	L-ch audio output
49	AVSS1	I	Ground for analog circuits (for audio output stage)
50	OUTR	O	R-ch audio output
51	AVDD1	I	Power supply for analog circuits (for audio output stage)
52	DVSS3	I	Ground for digital circuits
53	DVDD3	I	Power supply for digital circuit
54	TMOD2	I	Test input pin Low: Normal
55	FLAG	O	Flag signal output
56	EXT2	I/O	Expansion I/O port 2
57	EXT0	I/O	Expansion I/O port 0
58	EXT1	I/O	Expansion I/O port 1

Pin No.	Mark	I/O	Function
59	IOVDD2	I	Power supply for I/O
60	TX	O	Digital audio interface output signal
61	MCLK	I	Micro controller command clock signal input (Latches data at the rising edge)
62	MDATA	I	Micro controller command data signal input
63	MLD	I	Micro controller command load signal input Low: Load
64	BLKCK	O	Subcode block clock signal (f=75 Hz in normal-speed playback mode)
65	PWMSEL	I	PWM output mode selection input Low: Direct High: 3-state
66	SMCK	O	4.2336 MHz/ 8.4672 MHz clock signal output
67	SBCK	I	Clock input for subcode serial output
68	STAT	O	Status signal output
69	NRST	I	Reset input Low: Reset
70	SPPOL	O	Spindle motor drive signal output (polarity output)
71	PMCK	O	88.2-kHz clock signal output
72	DQSY	O	Pack signal output for CD-TEXT data
73	TXTD	O	CD-TEXT data signal output
74	TXTCK	O	External clock signal input for CD-TEXT register
75	NTEST	I	Test input pin High: Normal
76	OUT X2	O	Crystal oscillator circuit output pin (f=16.9355 MHz, 33.8688 MHz)
77	IN X1	I	Crystal oscillator circuit output pin (f=16.9355 MHz, 33.8688 MHz)
78	DVSS1	I	Ground for digital circuits
79	DVDD1	I	Power supply for digital circuits
80	MON	O	Monitor for evaluation

18.3. IC703 (AN8739SBTE2) Focus coil/ Tracking coil/ Traverse motor/ Spindle motor driver

Pin No.	Mark	I/O	Function
1	/RST	-	RESET output terminal
2	NC	-	N.C.
3	IN2	I	Motor drive (2) input
4	PC2	I	Turntable motor drive signal ("L" :ON)
5	NC	-	N.C.
6	IN1	I	Motor driver (1) input
7	NC	I	N.C.
8	PVCC1	I	Power supply (1) for driver
9	PGND1	-	Ground connection (1) for driver
10	NC	-	N.C.
11	D1-	O	Motor driver (1) reverse-action output
12	D1+	O	Motor driver (1) forward-action output
13	D2-	O	Motor driver (2) reverse-action output
14	D2+	O	Motor driver (2) forward-action output
15	D3-	O	Motor driver (3) reverse-action output

Pin No.	Mark	I/O	Function
16	D3+	O	Crystal oscillating circuit input (f = 16.9344MHz)
17	D4-	O	Motor driver (4) reverse-action output
18	D4+	O	Motor driver (4) forward-action output
19	NC	-	N.C.
20	PGND2	-	Ground connection (2) for driver
21	PVCC2	I	Power supply (2) for driver
22	NC	-	N.C.
23	VCC	I	Power supply terminal
24	VREF	I	Reference voltage input
25	IN4	I	Motor driver (4) input
26	IN3	I	Motor driver (3) input
27	RSTIN	I	Reset terminal
28	NC	-	N.C.
29	Gnd	-	Gnd
30	Gnd	-	Gnd

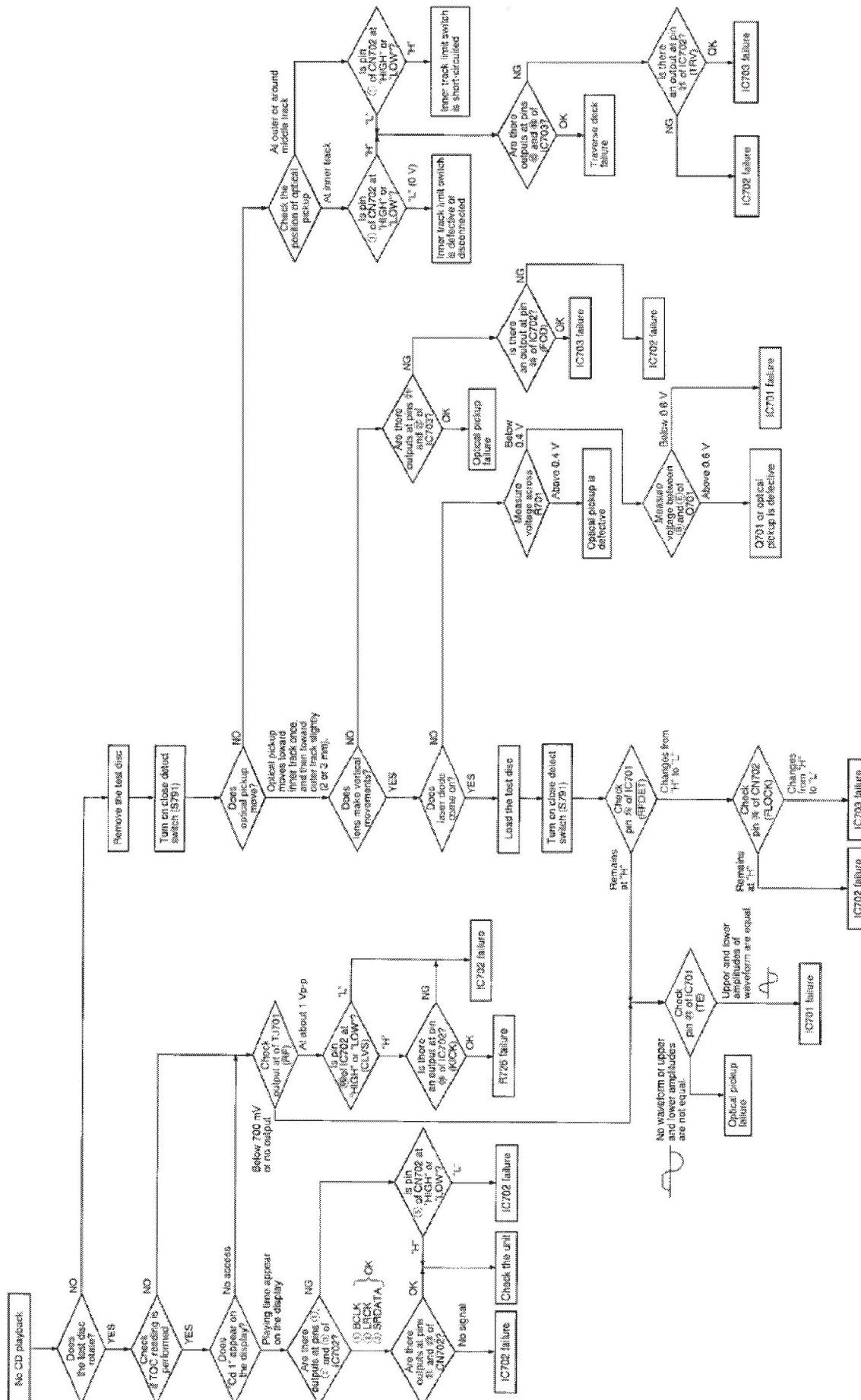
18.4. IC305 (C2CBJF000004) System Microprocessor

Pin No.	Mark	I/O	Function
1	REG_2	I/O	Region Setting 2
2	PLLCK	O	Tuner PLL Clock Output
3	PLLDA	O	Tuner PLL Data Output
4	ST/DO	I	Tuner IF Data/Stereo Input
5	SD	I	Tuner Signal Detect Input
6	MBP1	O	Microcomputer Beat Proof Output 1 (CONTROL)
7	MBP2	O	Microcomputer Beat Proof Output 2 (CONTROL)
8	BYTE	-	External Data Bus Width Select Input (Connect to Ground)
9	CNVss /EFP_PGM /OE/MD	-	Flash Mode Terminal (Connected To Ground)
10	Xcin	-	32.768 kHz Sub Clock
11	Xcout	-	32.768 kHz Sub Clock
12	/RESET EFP_RESET	-	Reset Input (ACTIVE L)
13	Xout	-	10 MHz Main Clock
14	Vss	-	Ground (0V)
15	Xin	-	10 MHz Main Clock
16	Vcc	-	Power Supply (+5V)
17	/NMI	-	Connect to Vcc (+5V)
18	RMT	I	Remote Control Input
19	BLKCK	I	CD Block Clock Input
20	SYNC	I	AC Failure Detect Input
21	MUTE_H	O	HIC Mute
22	ECHO_CTL1	O	Echo Control 1
23	ECHO_CTR2	O	Echo Control 2
24	ECHO_CTR3	O	Echo Control 3
25	ECHO_MU	O	ECHO MUTE
26	ASP_DAT	O	ASP DATA
27	ASP_CLK	O	ASP CLOCK
28	SUR_ON	O	SURROUND ON/OFF
29	SW_LVL1	O	Sub Woofer Level 1
30	SW_LVL2	O	Sub Woofer Level 2
31	FL_DOUT /EFP_TxD1	O	Serial Data To FL Driver (Output)
32	FL_CS1/ EFP_RxD1	I/O	FL Driver Chip Select (Master)
33	FL_CLK/ EFP_CLK1	I/O	Serial Clock To FL Driver

Pin No.	Mark	I/O	Function
34	FL_CS2 /EFP-BUSY	I/O	FL Driver Chip Select (Slave)
35	MDATA_OUT	O	CD Command Data Output
36	STATUS	I	CD Servo LSI Status Input
37	MCLK	O	CD Command Clock Output
38	MLD	O	CD Command Load Output
39	/FL_RESET	O	Reset Input
40	MUTE_A	O	Audio Mute
41	EE_CS /EFP_ /EPM	O	EEPROM Chip Select
42	EE_CLK	O	EEPROM CLOCK
43	EE_DAT	I/O	EEPROM DATA
44	RDS_CLK	I	RDS Clock Input
45	RDS_DAT	I	RDS Data Input
46	PCONT /EFP_ /CE	O	Main Transformer Control Outut
47	DCDET	I	DC Detect Input
48	SP_A	O	SPEANA CONTROL OUTPUT A
49	SP_B	O	SPEANA CONTROL OUTPUT B
50	SP_C	O	SPEANA CONTROL OUTPUT C
51	N.C.	O	No Connection
52	HALF_1	I	DECK 1 HALF PLAYBACK INPUT
53	MODE_1	I	DECK 1 MODE PLAYBACK INPUT
54	PHOTO_2	I	Rotation Detection Signal (Deck 2)
55	PHOTO_1	I	Rotation Detection Signal (Deck 1)
56	PLG1	O	DECK1 plunger control
57	PLG2	O	DECK2 plunger control
58	MTR	O	DECK motor control ("H" for Motor ON)
59	REC	O	H when record circuit is operating
60	DECK1_H	O	H when DECK1 P/B head is selected
61	N.C.	O	No Connection
62	Vcc	-	Power Supply (+5V)
63	N.C.	O	No Connection
64	Vss	-	Ground (0V)
65	DMT	O	Deck Mute at mecha transition ("L" for MUTE ON)
66	BP1	O	AM beatproof 1 output ("L" "H" for BP1 ON)
67	V_JOG_A	I	Volume Jog A
68	V_JOG_B	I	Volume Jog B
69	EX1_CLK	O	I/O Expander Clock output
70	EX1_DAT	O	I/O Expander Data output
71	REG4	I	Sub Woofer Selector
72	REG3	I	WMA Selector
73	N.C.	I	No Connection
74-75	N.C.	O	No Connection
76	SSEQ_LED	O	Super Sound EQ LED
77	SW_LED	O	Sub-Woofer LED
78	N.C.	O	No Connection
79	/CD	O	CD POWER CONTROL (Active Low)
80	CD_RST	O	CD Reset Output
81	N.C.	O	No Conenction
82	/RESTSW	I	CD Limit Switch Input for the Most inner Point (Active Low)
83	CHG_HLF	O	Changer Half Drive Output
84	CHG_CW	O	Changer Motor Clockwise Output
85	CHG_CCW	O	Changer Motor Counterclockwise Outut
86	CHG_SW1	I	CD Changer Switch 1 Input
87	CHG_SW2	I	CD Changer Switch 2 Input
88	CHG_PLG	O	Changer Plunger Outut
89	CHG_AD2	I	Changer AD Detection Input (Position/Bottom)

Pin No.	Mark	I/O	Function
90	CHG_AD1	I	Change AD Detection Input (Open/ Clamp)
91	DECK2	I	DECK CONDITION INPUT 2 (R_INHF/MODE2/RINHR/HALF2)
92	KEY3	I	KEY3 INPUT
93	KEY2	I	KEY2 INPUT
94	KEY1	I	KEY1 INPUT
95	SPE_IN	I	SPEANA INPUT
96	AVss	-	Analog Power Supply Input (Conenct to GND)
97	REG1	I	Region Setting 1
98	VREF	-	Reference for A-D (5V)
99	AVcc	-	Analog Power Supply Input
100	PLLCE	O	Tuner PLL Chip Enable

19 Troubleshooting Guide



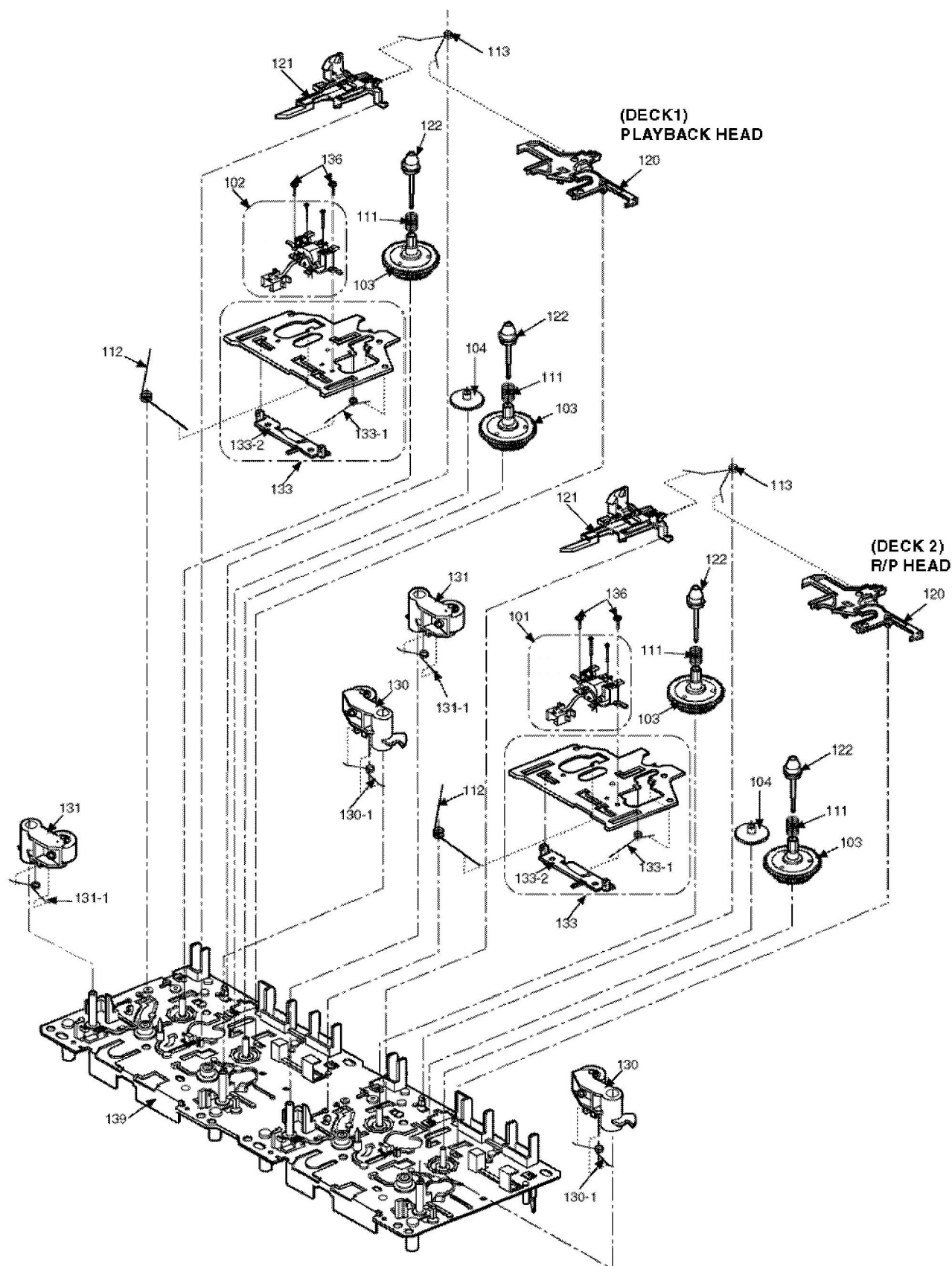
20 Part Location and Replacement Part List

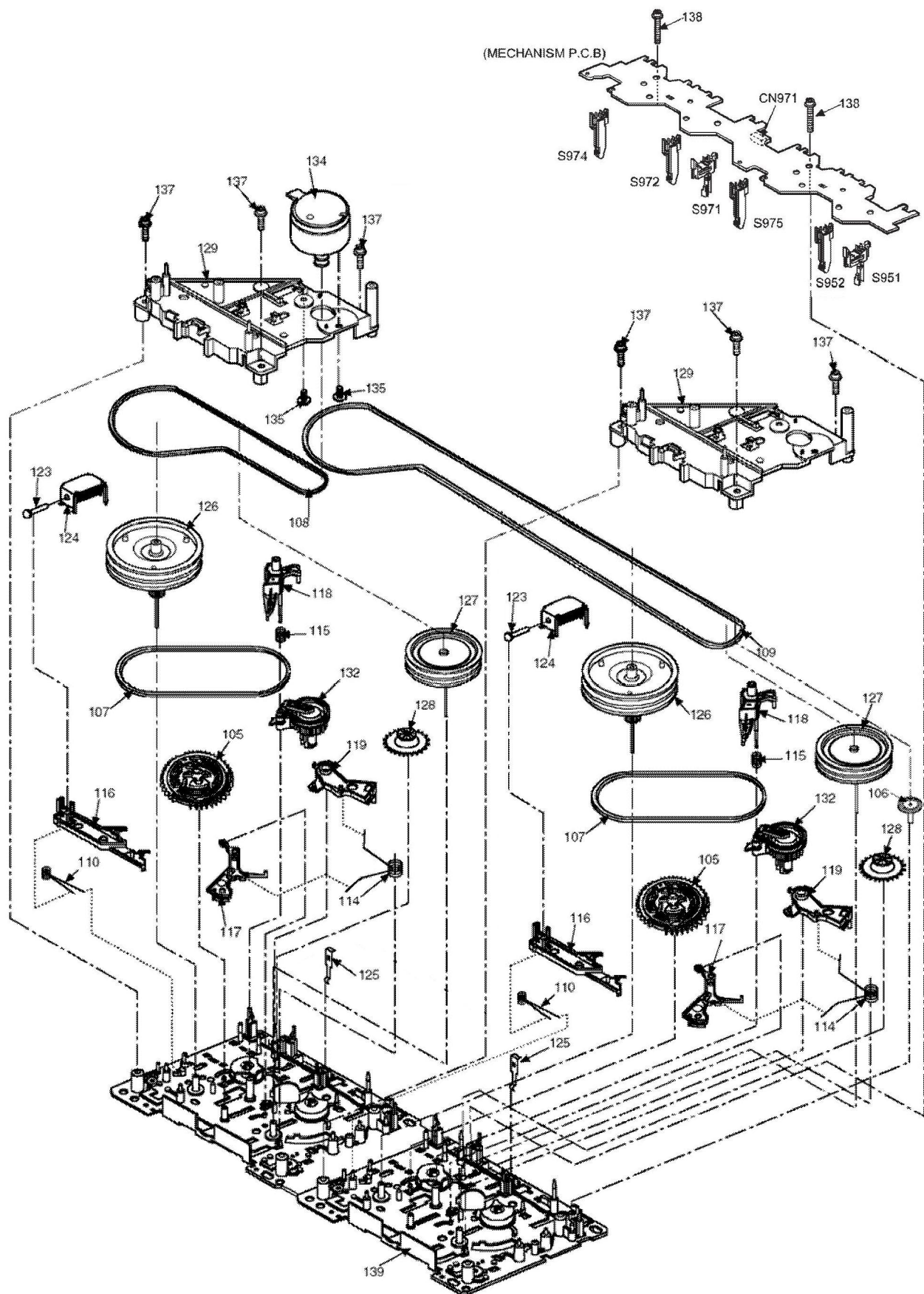
NOTES:

- Important safety notice:
Components identified by this mark  have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.
When replacing any of these components, be sure to use only manufacturers specified parts shown in the parts list.
- Warning: This product uses a laser diode. Refer to caution statements on "Precaution of Laser Diode".
- Capacitor values are in ohms, unless specified otherwise, 1K= 1,000 (OHM).

20.1 Deck Mechanism

20.1.1. Deck Mechanism Parts Location



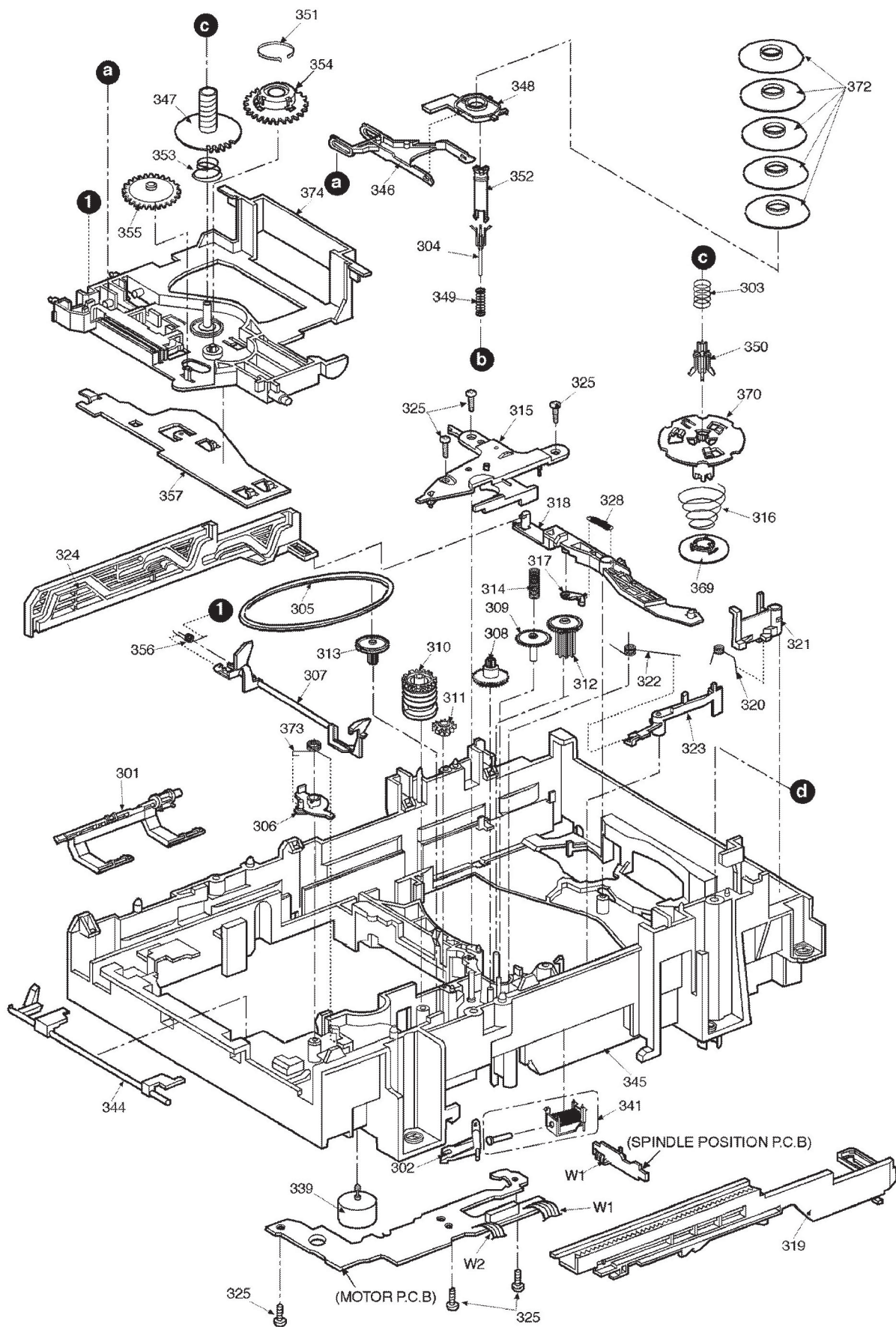


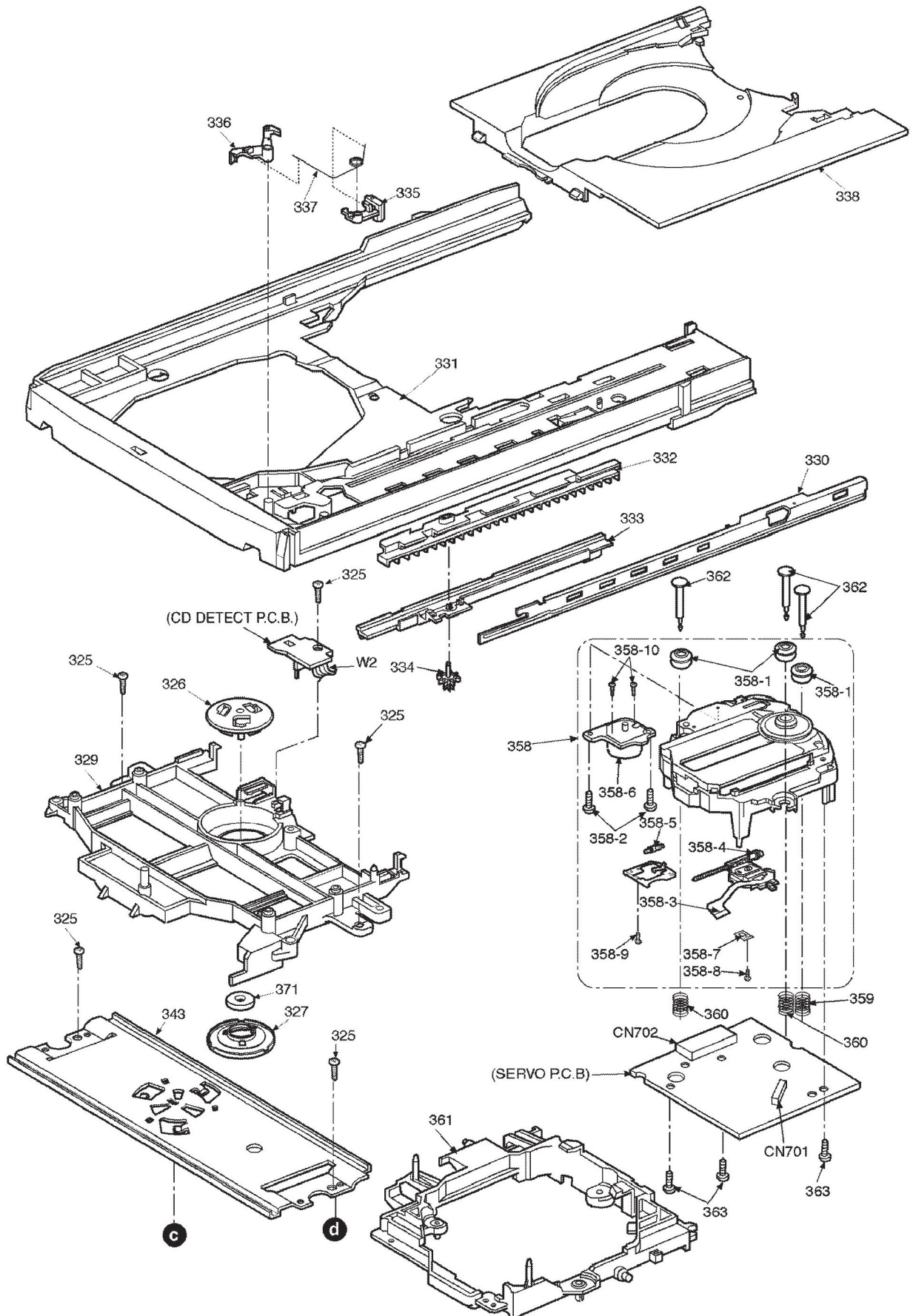
20.1.2. Deck Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
CASSETTE DECK			
101	RED0064-1	R/P HEAD BLOCK UNIT	
102	RED0063-1	R/B HEAD BLOCK UNIT	
103	RDG0300	REEL BASE GEAR	
104	RDG0301	WINDING RELAY GEAR	
105	RDK0026-4	MAIN GEAR	
106	RDR0029-4	RELAY PULLEY	
107	RDV0033-4	WINDING BELT	
108	RDV0034-2	CAPSTAN BELT "A"	
109	RDV0057-1	MAIN BELT B	
110	RMB0312	TRIGGER LEVER SPRING	
111	RMB0400-J	REEL SPRING	
112	RMB0403	HEAD PANEL SPRING	
113	RMB0404	BRAKE ROD SPRING	
114	RMB0406-5	FR LEVER SP	
115	RMB0408-J	THRUST SPRING	
116	RML0370-4	TRIGGER LEVER	
117	RML0371	FR LEVER	
118	RML0372-2	WINDING LEVER	
119	RML0374-2	EJECT LEVER	
120	RMM0131-1	BRAKE ROD SPRING	
121	RMM0133-1	EJECT ROD	
122	RMQ0519	REEL HUB	
123	RMS0398-1	MOVING CORE	
124	RSJ0003	PLUNGER	
125	RMC0061	PACK SPRING	
126	RXF0049	FLYWHEEL "F" ASSY	
127	RXF0050	FLYWHEEL "R" ASSY	
128	RXG0040	FF RELAY GEAR ASSY	
129	RMK0283A-2	SUB CHASSIS	
130	RXL0124	PINCH ROLLER "F" ASSY	
130-1	RMB0401	PINCH ARM SPRING "F"	
131	RXL0125	PINCH ROLLER "R" ASSY	
131-1	RMB0402	PINCH ARM SPRING "R"	
132	RXL0126	WINDING ARM ASSY	
133	RXQ0412-1	HEAD PANEL ASSY	
133-1	RMB0405-1	FR ROD SPRING	
133-2	RMM0132-1	FR ROD	
134	REM0088	CAP MOTOR ASSY	
135	RHD26022	MOTOR SCREW	
136	XTW2+5L-A	HEAD BLOCK UNIT SCREW	
137	XTW26+10S-A	SUB-CHASSIS SCREW	
138	XYC2+JF17-A	PCB EARTH SCREW	
139	RMK0282	CHASSIS ASSY	

20.2. CD Loading Mechanism (RD-DAC026-S)

20.2.1. CD Loading Mechanism Parts Location





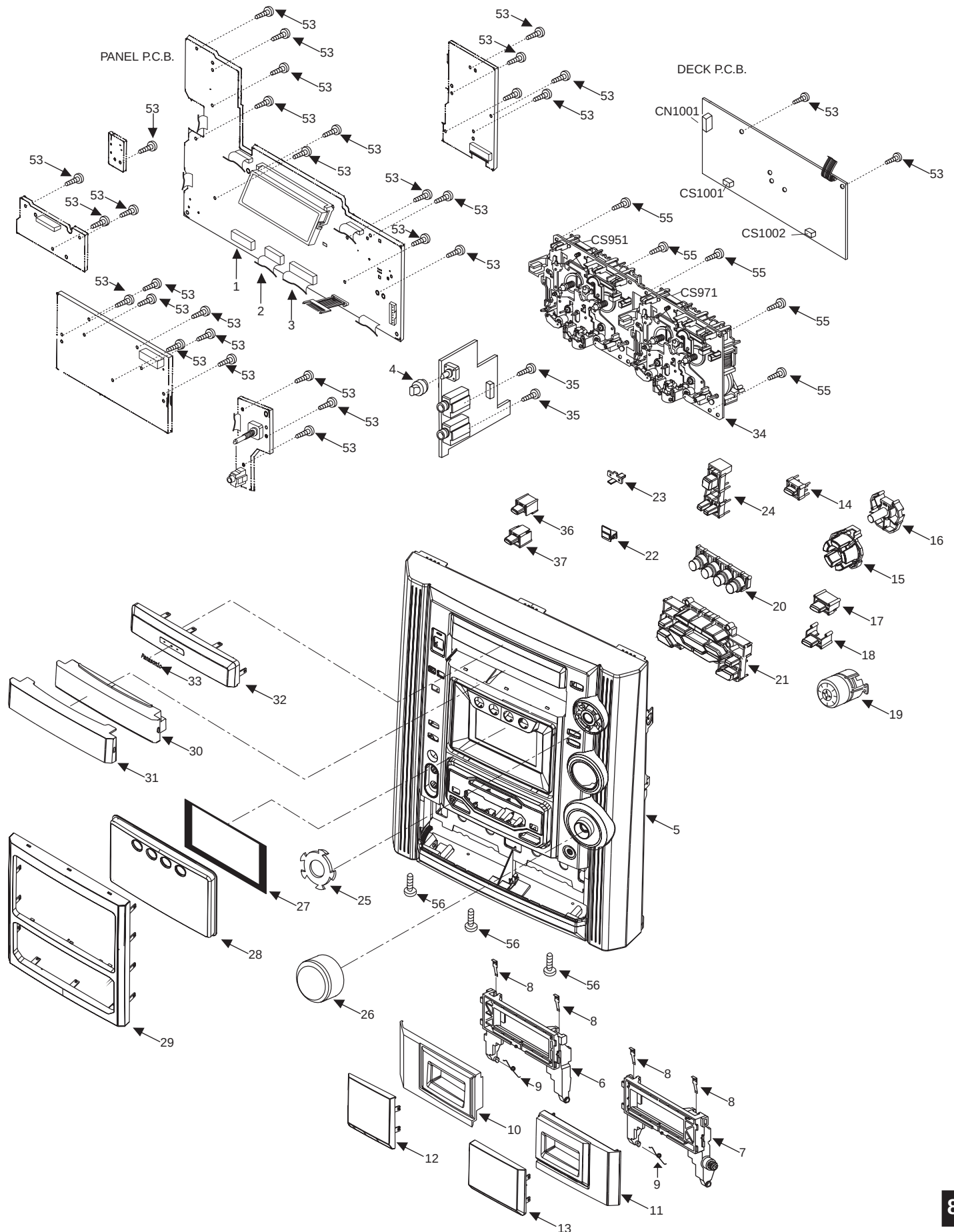
20.2.2. CD Loading Mechanism Parts List

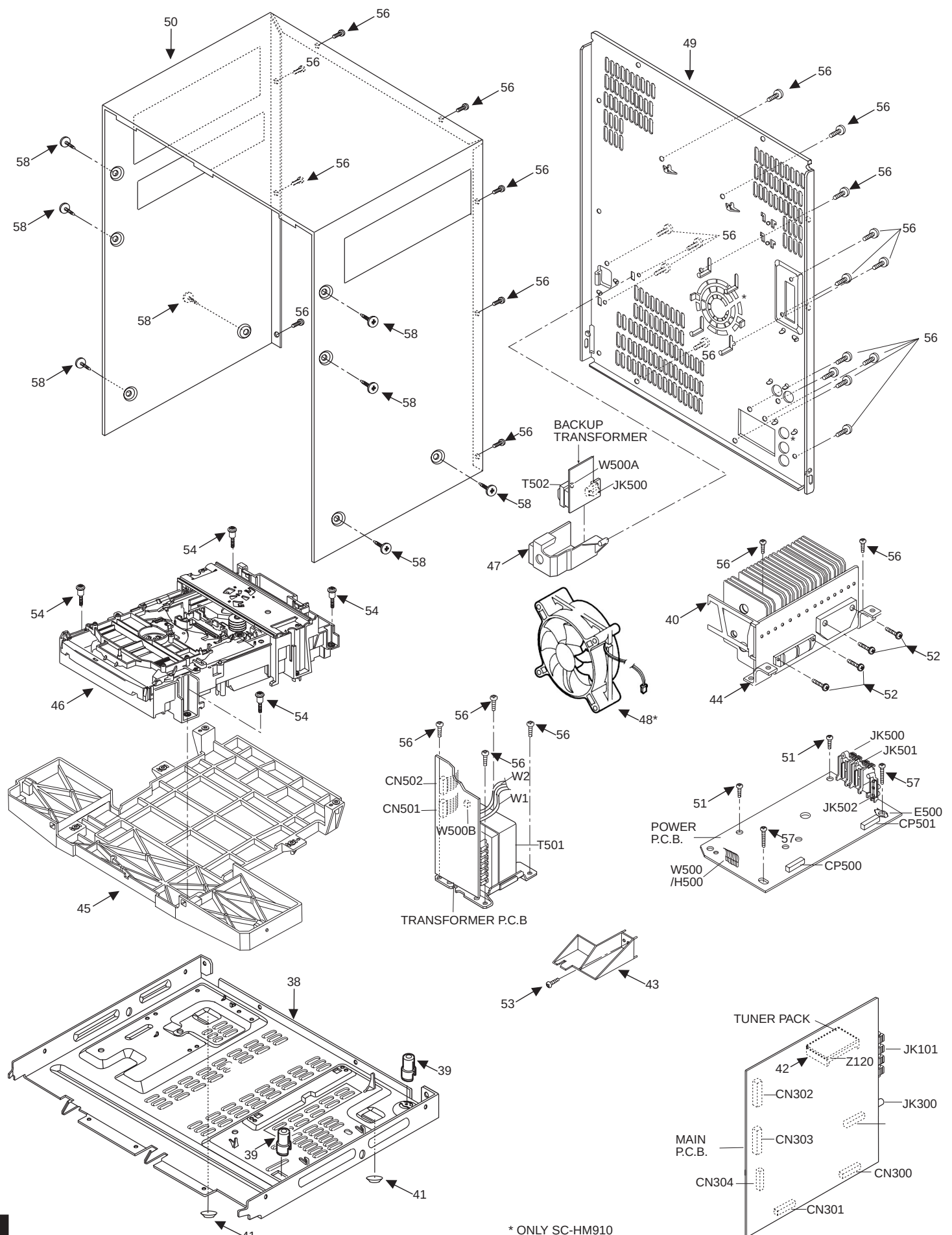
Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RML0517	TIMING LEVER	[M]
302	RML0516	PLUNGER LEVER	[M]
303	RMB0551	UPPER SPINDLE SPRING	[M]
304	RMQ0744	LOWER HOOK	[M]
305	RDV0056	BELT	[M]
306	RML0525	FRONT LOCK LEVER	[M]
307	RML0526	DISC LEVER	[M]
308	RDG0424	DRIVE GEAR	[M]
309	RDG0425	CHANGE GEAR	[M]
310	RDG0427	TRAVERSE CAM GEAR	[M]
311	RDG0428	TRAVERSE RELAY GEAR	[M]
312	RDG0426	UP/DOWN GEAR	[M]
313	RDG0429	PULLEY GEAR	[M]
314	RMB0549-1	CHANGE GEAR SPRING	[M]
315	RMQ0748	PITCH PLATE	[M]
316	RMB0553	PUSH SPRING	[M]
317	RML0530	ASSIST LEVER	[M]
318	RML0518	CONNECTION LEVER	[M]
319	RMM0201	SLIDE PLATE 1	[M]
320	RME0258	REAR LOCK SPRING	[M]
321	RML0521	REAR LOCK	[M]
322	RME0257	TRAY LOCK LEVER SPRI	[M]
323	RML0520	TRAY LOCK	[M]
324	RMM0202	SLIDE PLATE 2	[M]
325	XTB3+10J	SCREW	[M]
326	RMR0334	FIXED PLATE	[M]
327	RMR0624-W2	CLAMPER	[M]
328	RMB0561	ASSIST LEVER SPRING	[M]
329	RMR1121-K	MECHA COVER	[M]
330	RMA1110-2	TRAY ANGLE	[M]
331	RMR1122-H1	TRAY BASE	[M]
332	RMM0204	CARRIER	[M]
333	RMM0203	DRIVE RACK	[M]
334	RDG0432	SPEED UP GEAR	[M]
335	RML0524	SLIDE LOCK	[M]
336	RML0523	CARRIER LOCK	[M]
337	RME0260-1	SLIDE LOCK SPRING	[M]
338	RMR1123-H	TRAY	[M]
339	RXQ0595	MOTOR SUB ASS'Y	[M]
341	RSJ0003	SOLENOID ASS'Y	[M]
343	RMA1106	UPPER PLATE	[M]
344	RML0519	8CD LEVER	[M]
345	RFKNAAK27GCS	MECHA BASE ASS'Y	[M]
346	RML0522	TURNING STOPPER	[M]
347	RMQ0745	LOWER SPINDLE	[M]
348	RMQ0746	UP/DOWN BASE	[M]
349	RMB0550	LOWER SPINDLE SPRING	[M]
350	RMQ0747	UPPER HOOK	[M]
351	RME0263	CLICK SPRING	[M]
352	RMQ0743	SPINDLE SHAFT	[M]
353	RMB0552	CUSHION SPRING	[M]
354	RDG0430	RELAY GEAR 'A'	[M]
355	RDG0431	RELAY GEAR 'B'	[M]
356	RME0262	DISK LEVER SP.	[M]
357	RMA1105	SUPPORT PLATE	[M]
358	RAE0153Z-S	TRAVERSE	[M]
358-1	SHGD113-1	FLOATING CUSHION	[M]
358-2	SNSD38	TRV MOTOR ASSY SCREW	[M]
358-3	RAF0152A-S	CD OPU	[M]
358-4	RDG0247	DRIVE GEAR	[M]
358-5	RDG0248	RELAY GEAR	[M]
358-6	RXQ0339	TRAVERSE MOTOR ASS'Y	[M]
358-7	RXQ0304-1	NUT PLATE ASS'Y	[M]
358-8	XQN17+CG5	NUT PLATE ASSY SCREW	[M]
358-9	XQS2+A3FZ	SPINDLE MOTOR SCREW	[M]
358-10	XQS17+A35FZ	TRV MOTOR SCREW	[M]
359	RME0142	FLOATING SPRING A	[M]
360	RME0109	FLOATING SPRING B	[M]
361	RMR1124A-K	TRAVERSE CHASSIS	[M]
362	RMS0632	TRAVERSE PIN	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
363	XTN2+6G	SCREW	[M]
369	RMX0141	PUSH SPACER	[M]
370	RMQ0749	UPPER SPINDLE	[M]
371	RHM0001	MAGNET	[M]
372	RMX0140	DISC SPACER	[M]
373	RMB0261	FRONT LOCK SPRING	[M]
374	RMQ0742	SPINDLE BASE	[M]

20.3 Cabinet

20.3.1. Cabinet Parts Location





* ONLY SC-HM910

20.3.2. Cabinet Parts List

CASSETTE DECK							
1	REEM0085	WIRE 17 PIN		42	RSC0027-3	TUNER PACK	
2	REEM0088	WIRE 10 PIN		43	RMNX0073	PCB SUPPORT	
3	REEM0086	WIRE 30 PIN		44	RXXM0019	HEAT SINK UNIT	
4	RGWX0042-4S1	MIC-KNOB		45	RMKX0063	CD CHASSIS	
5	RYPM0123	PANEL FRONTAL HM910		46	RD-DAC024-PX	CD MECHANISM	
6	RKF0462-K4	CASS HOLDER (L)		47	RMNX0023-2	SUB TRANS HOLDER	
7	RKF0463-K4	CASS HOLDER (R)		48	REM0072-4	FAN (ONLY HM910)	
8	RUS757ZAA	CASSETTE HALF SPRING		49	RGRM0008-B	REAR PANEL HM910	
9	RMB0446	CASS OPEN SPRING			RGRX0014A-G	REAR PANEL HM810	
10	RYQM0073	CASS. LID (L)		50	RYKM0027	TOP CABINET	
11	RYQM0074	CASS. LID (R)		51	XTB3+10J-A	SCREW	
12	RKWX0182-H1	CASS. WINDOW (L) HM910		52	XTW3+15T-A	SCREW	
	RKWX0182-A1	CASS. WINDOW (L) HM810		53	XTBS26+10J-A	SCREW	
13	RKWX0181-H1	CASS. WINDOW (R) HM910		54	XTW3+12T-A	SCREW	
	RKWX0181-A1	CASS. WINDOW (R) HM810		55	XTB3+10JFZ-A	SCREW	
14	RYRM0055	CD MANAGER BUTTON		56	XTBS3+8JFZ1-A	SCREW	
15	RGUX0452-Q1	CD SELECTOR BUTTON		57	XTB3+20J-A	SCREW	
16	RYRM0058	CD EJECT BUTTON		58	RHD30002-H	SCREW	
17	RYRM0057	SUPER 3D AI					
18	RYRM0061	SUPER SOUND EQ					
19	RYQX0037-HM	JOY JOY UNIT					
20	RYRM0059	FUNCTION BUTTON					
21	RYRM0060	DECK/MAIN UNIT					
22	RGPX0072-Q	REMOTE SENSOR					
23	RDLX0002-Q	POWER LENS					
24	RYRM0054	POWER BUTTON					
25	RGKX0124-H	CD STR ORNAMENT HM910					
	RGKX0124-A	CD STR ORNAMENT HM810					
26	RYQM0068A-1	VOLUME KNOB					
27	RKWM0030	FL FILTER					
28	RKWX0180-Q	FL WINDOW					
29	RYQM0097	CENTER ORNAMENT HM910					
	RYQM0106	CENTER ORNAMENT HM810					
30	RYQM0080	CD TRAY LID					
31	RYQM0093	CD TRAY ORNAMENT HM910					
	RYQM0107	CD TRAY ORNAMENT HM810					
32	RYQM0096	TOP ORNAMENT HM910					
	RYQM0095	TOP ORNAMENT HM810					
33	RGB0036-A1	EMBLEMA					
34	RAA3412-1P	AUTOREVERSE DECK					
35	XTWS3+10Q-A	SCREW					
36	RYRM0056	KARAOKE BUTTON					
37	RYRM0062	BOTTOM EFFECTS					
38	RMKX0035-1	BOTTOM CHASSIS					
39	MDS013	POWER PCB SUPPORT					
40	RMRX0030-1	HEAT SINK SUPPORT					
41	MHPSJ5012-1	LEG RUBBER					

20.4. Electrical Parts List

* ONLY SC-HM810 ** ONLY SC-HM910

Ref. No.	Part No.	Part Name & Description	Marks
P.C.B. WITH COMPONENTS SC-HM810			
	RAIM033104P	DECK	
	RAIM038100A	TRANSFORMER	
	RAIM038101A	POWER	
	RAIM038102A	MAIN	
	RAIM038103A	PANEL	
	RAIM03815A	TUNER PACK	
P.C.B. WITHOUT COMPONENTS SC-HM810			
	RJBX0313A-2	DECK	
	RJBM0027A-1	TRANSFORMER	
	RJBM0025A-2	POWER	
	RJBM0039A	MAIN	
	RJBM0038A	PANEL	
	RJBX0066B-1	TUNER PACK	
P.C.B. WITH COMPONENTS SC-HM910			
	RAIM033104P	DECK	
	RAIM039100A	TRANSFORMER	
	RAIM039101A	POWER	
	RAIM039102A	MAIN	
	RAIM039103A	PANEL	
	RAIM03815A	TUNER PACK	
P.C.B. WITHOUT COMPONENTS SC-HM910			
	RJBX0313A-2	DECK	
	RJBM0023A-1	TRANSFORMER	
	RJBM0021A-2	POWER	
	RJBM0039A	MAIN	
	RJBM0038A	PANEL	
	RJBX0066B-1	TUNER PACK	
CAPACITORS			
C1	ECBT1H5R6KC5	CAPACITOR	
C10	ECBT1H180JC5	CAPACITOR	
C1001	F1H1H103A753	CAPACITOR	
C1002	ECEA1HKN2R2B	CAPACITOR	
C1003	ECUV1H152KBV	CAPACITOR	
C1006	ECEA1HKA010B	CAPACITOR	
C1007	F0A2A472A015	CAPACITOR	
C1008	ECEA1HKA010B	CAPACITOR	
C1009	ECEA1AKA470B	CAPACITOR	
C101	ECJ1VB1E103K	CAPACITOR	
C1010	ECA1EM101B	CAPACITOR	
C1011	ECQV1H473JZ3	CAPACITOR	
C1012	F1H1H102A761	CAPACITOR	
C1013	F1H1H102A761	CAPACITOR	
C1014	F1H1H102A761	CAPACITOR	
C1015	F1H1H102A761	CAPACITOR	
C1016	ECJ1VB1H222K	CAPACITOR	
C1017	ECJ1VB1H222K	CAPACITOR	
C1018	ECJ1VB1H103K	CAPACITOR	
C1019	F1H1H102A761	CAPACITOR	
C102	ECEA1CKA100B	CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Marks
C1020	ECJ1VB1H471K	CAPACITOR	
C1021	ECJ1VB1H471K	CAPACITOR	
C1022	F1H1H102A761	CAPACITOR	
C1023	F1H1H102A761	CAPACITOR	
C1026	ECEA0JKA470B	CAPACITOR	
C1027	F1H1H102A761	CAPACITOR	
C103	ECJ1VB1E103K	CAPACITOR	
C1030	ECEA1AKA101B	CAPACITOR	
C1031	ECEA1AKA101B	CAPACITOR	
C1032	F1C1C183A001	CAPACITOR	
C1033	F1C1C183A001	CAPACITOR	
C1034	ECEA1HKA3R3B	CAPACITOR	
C1035	ECEA1HKA3R3B	CAPACITOR	
C1036	ECUV1C333KBV	CAPACITOR	
C1037	ECEA1HKA3R3B	CAPACITOR	
C1038	ECJ1VB1H221K	CAPACITOR	
C1039	ECJ1VB1H221K	CAPACITOR	
C104	F1H1H102A761	CAPACITOR	
C1040	ECEA1CKA100B	CAPACITOR	
C1041	ECEA1CKA100B	CAPACITOR	
C1042	ECEA1CKA220B	CAPACITOR	
C1043	ECEA1HKA4R7B	CAPACITOR	
C1044	ECEA1AKA330B	CAPACITOR	
C1045	ECEA1AKA220B	CAPACITOR	
C1046	ECEA1AKA221Q	CAPACITOR	
C1047	ECEA1HKA010B	CAPACITOR	
C1048	ECEA1HKA010B	CAPACITOR	
C1049	F1H1H102A761	CAPACITOR	
C1050	F1H1H102A761	CAPACITOR	
C1051	ECEA1HKA010B	CAPACITOR	
C1052	ECEA1HKA010B	CAPACITOR	
C1053	ECA1CM221B	CAPACITOR	
C1054	ECEA1HKA3R3B	CAPACITOR	
C1055	ECEA1HKA0R1B	CAPACITOR	
C1056	ECEA1CKA100B	CAPACITOR	
C1057	F1H1H102A761	CAPACITOR	
C1058	F1H1H102A761	CAPACITOR	
C106	ECJ1VB1E103K	CAPACITOR	
C1064	ECEA1HKA3R3B	CAPACITOR	
C107	F1H1E473A062	CAPACITOR	
C108	F1H1H8R0A787	CAPACITOR	
C109	F1H1H102A761	CAPACITOR	
C11	RCBS1H102KBY	CAPACITOR	
C110	ECJ1VB1E103K	CAPACITOR	
C111	ECEA1HKA4R7B	CAPACITOR	
C112	ECJ1VB1E103K	CAPACITOR	
C113	F1H1H102A761	CAPACITOR	
C114	ECEA1HKA3R3B	CAPACITOR	
C115	ECEA1HKA4R7B	CAPACITOR	
C116	ECUV1C333KBV	CAPACITOR	
C117	ECJ1VB1E103K	CAPACITOR	
C118	ECJ1VB1E103K	CAPACITOR	
C119	F0A2A681A010	CAPACITOR	
C120	ECEA1CKA100B	CAPACITOR	
C121	ECEA1HKA47B	CAPACITOR	
C122	ECEA1HKA010B	CAPACITOR	
C123	ECEA1HKA010B	CAPACITOR	
C124	ECJ1VC1H101K	CAPACITOR	
C125	ECEA1CKA220B	CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C126	ECUV1C105ZFN	CAPACITOR	
C127	ECEA1CKA220B	CAPACITOR	
C129	ECEA0JKA101B	CAPACITOR	
C130	ECEA0JKA101B	CAPACITOR	
C131	ECJ1VC1H151J	CAPACITOR	
C132	F1H1H102A761	CAPACITOR	
C133	ECJ1VC1H270J	CAPACITOR	
C134	ECJ1VC1H270J	CAPACITOR	
C136	F1H1H102A761	CAPACITOR	
C137	ECJ1VB1H332K	CAPACITOR	
C138	ECJ1VB1E103K	CAPACITOR	
C139	ECEA1HKA4R7B	CAPACITOR	
C141	ECEA1HKA010B	CAPACITOR	
C142	ECEA1HKA010B	CAPACITOR	
C143	ECJ1VB1H682K	CAPACITOR	
C144	ECJ1VB1H682K	CAPACITOR	
C147	F1H1H102A761	CAPACITOR	
C148	ECJ1VB1E103K	CAPACITOR	
C149	ECUV1C104ZFN	CAPACITOR	
C2	RCBS1H102KBY	CAPACITOR	
C201	ECJ1VB1H681K	CAPACITOR	
C202	ECJ1VC1H101K	CAPACITOR	
C203	F1H1H102A761	CAPACITOR	
C204	ECJ1VB1H221K	CAPACITOR	
C205	ECJ1VB1H221K	CAPACITOR	
C206	ECEA1CKA100B	CAPACITOR	
C207	ECEA1CKA100B	CAPACITOR	
C208	ECEA1CKA100B	CAPACITOR	
C209	ECEA1CKA100B	CAPACITOR	
C211	ECEA1CKA100B	CAPACITOR	
C212	ECEA1CKA100B	CAPACITOR	
C213	ECEA1HKAR47B	CAPACITOR	
C214	ECEA1HKAR47B	CAPACITOR	
C215	ECUVNA154KBV	CAPACITOR	
C216	ECUVNA154KBV	CAPACITOR	
C217	ECUV1H152KBV	CAPACITOR	
C218	ECEA1CKA100B	CAPACITOR	
C219	ECQV1H474JZ3	CAPACITOR	
C220	ECQV1H474JZ3	CAPACITOR	
C221	ECEA1CKA100B	CAPACITOR	
C222	ECJ2ZB1C473K	CAPACITOR	
C223	ECJ1VC1H101K	CAPACITOR	
C224	ECEA1HKA010B	CAPACITOR	
C225	ECJ1VC1H101K	CAPACITOR	
C226	ECJ1VC1H470J	CAPACITOR	
C227	ECEA1CKA100B	CAPACITOR	
C228	ECEA1CKA100B	CAPACITOR	
C229	ECEA1HKA010B	CAPACITOR	
C230	ECJ2VB1H153K	CAPACITOR	
C231	F1H1H821A761	CAPACITOR	
C232	F1H1H822A022	CAPACITOR	
C233	F1H1H822A022	CAPACITOR	
C234	ECEA1HKA010B	CAPACITOR	
C235	ECEA1HKAR68B	CAPACITOR	
C238	ECEA1CKA330B	CAPACITOR	
C239	ECJ2VB1H333K	CAPACITOR	
C240	ECJ1VB1E103K	CAPACITOR	
C241	ECJ2VB1H333K	CAPACITOR	
C3	ECBT1H2R2KC5	CAPACITOR	
C301	F1H1H102A761	CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C302	ECJ1VB1E103K	CAPACITOR	
C303	F1H1H102A761	CAPACITOR	
C304	ECEA1HKA010B	CAPACITOR	
C305	ECEA1CKA221B	CAPACITOR	*
C305	ECEA1AKA221B	CAPACITOR	**
C306	ECEA1HKA010B	CAPACITOR	
C307	ECJ1VC1H101K	CAPACITOR	
C308	ECJ1VC1H101K	CAPACITOR	
C309	ECEA1AKN100B	CAPACITOR	
C310	ECEA0JKA101B	CAPACITOR	
C311	ECEA0JKA101B	CAPACITOR	
C312	ECJ1VB1E103K	CAPACITOR	
C313	ECJ1VB1E103K	CAPACITOR	
C314	ECJ1VB1H103K	CAPACITOR	
C315	ECEA1HKA0R1B	CAPACITOR	
C316	ECEA1HKA0R1B	CAPACITOR	
C317	ECEA1HKA0R1B	CAPACITOR	
C318	ECEA1HKA0R1B	CAPACITOR	
C319	ECUV1H104KBV	CAPACITOR	
C320	ECEA1AKA330B	CAPACITOR	
C321	ECJ1VB1H103K	CAPACITOR	
C323	ECUV1C104ZFN	CAPACITOR	
C324	ECUV1C104ZFN	CAPACITOR	
C325	ECJ1VC1H101K	CAPACITOR	
C326	ECJ1VF1C474Z	CAPACITOR	
C327	ECJ1VC1H101K	CAPACITOR	
C328	ECJ1VC1H101K	CAPACITOR	
C329	ECJ1VC1H101K	CAPACITOR	
C330	ECJ1VC1H101K	CAPACITOR	
C331	ECJ1VC1H101K	CAPACITOR	
C332	ECJ1VC1H101K	CAPACITOR	
C333	ECJ1VC1H101K	CAPACITOR	
C334	ECJ1VC1H101K	CAPACITOR	
C335	ECJ1VC1H101K	CAPACITOR	
C336	ECUV1H104KBV	CAPACITOR	
C337	ECJ1VC1H101K	CAPACITOR	
C338	ECJ1VB1E103K	CAPACITOR	
C339	ECJ1VB1E103K	CAPACITOR	
C340	ECJ1VC1H101K	CAPACITOR	
C341	ECJ1VC1H101K	CAPACITOR	
C342	ECJ1VB1E103K	CAPACITOR	
C343	ECJ1VC1H101K	CAPACITOR	
C344	ECJ1VC1H101K	CAPACITOR	
C345	ECJ1VC1H101K	CAPACITOR	
C346	ECJ1VC1H101K	CAPACITOR	
C347	ECJ1VC1H101K	CAPACITOR	
C348	ECJ1VC1H101K	CAPACITOR	
C349	ECJ1VC1H101K	CAPACITOR	
C350	ECJ1VC1H101K	CAPACITOR	
C351	ECJ1VC1H101K	CAPACITOR	
C352	ECJ1VC1H101K	CAPACITOR	
C353	ECJ1VC1H101K	CAPACITOR	
C354	ECJ1VC1H101K	CAPACITOR	
C357	ECJ1VC1H102J	CAPACITOR	
C359	F1H1H102A761	CAPACITOR	
C360	ECUV1H104KBV	CAPACITOR	
C361	ECJ1VC1H150J	CAPACITOR	
C362	ECJ1VC1H180J	CAPACITOR	
C364	F1H1H331A789	CAPACITOR	
C366	F1H1H331A789	CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C369	ECJ1VC1H560J	CAPACITOR	
C370	ECJ1VB1E103K	CAPACITOR	**
C371	ECJ1VB1C103K	CAPACITOR	**
C372	ECA1CM221B	CAPACITOR	**
C373	RCE1HKN100BG	CAPACITOR	**
C374	ECJ1VC1H560J	CAPACITOR	
C375	ECA1CM331B	CAPACITOR	**
C376	ECJ1VB1E103K	CAPACITOR	**
C377	ECJ1VB1E103K	CAPACITOR	**
C378	ECEA1CKA100B	CAPACITOR	**
C380	ECJ1VB1H561K	CAPACITOR	
C381	ECJ1VB1H561K	CAPACITOR	
C382	ECJ1VB1H561K	CAPACITOR	
C383	ECJ1VB1H561K	CAPACITOR	
C384	ECJ1VB1H561K	CAPACITOR	
C385	ECJ1VB1H561K	CAPACITOR	
C386	ECJ1VB1H561K	CAPACITOR	
C387	ECJ1VC1H680J	CAPACITOR	
C388	ECJ1VC1H680J	CAPACITOR	
C389	ECEA0JKA101B	CAPACITOR	
C391	ECEA1AKA101B	CAPACITOR	
C392	ECEA1HKA010B	CAPACITOR	
C395	ECEA1HKA100B	CAPACITOR	
C396	ECEA1HKA2R2B	CAPACITOR	
C397	RCE1AM102B	CAPACITOR	
C398	F1H1H102A761	CAPACITOR	
C4	ECBT1H181KB5	CAPACITOR	
C400	ECEA1VKA4R7B	CAPACITOR	*
C401	ECKR2H103ZF5	CAPACITOR TRANSFORMER	*
C401	ECJ1VB1H681K	CAPACITOR MAIN	
C402	F2A1E222A172	CAPACITOR TRANSFORMER	*
C402	ECJ1VC1H101K	CAPACITOR MAIN	
C403	ECKR1H103ZF5	CAPACITOR TRANSFORMER	*
C403	F1H1H102A761	CAPACITOR MAIN	
C404	RCA1CM102BT	CAPACITOR TRANSFORMER	*
C404	ECJ1VB1H221K	CAPACITOR MAIN	
C405	RCA1CM102BT	CAPACITOR TRANSFORMER	*
C405	ECJ1VB1H221K	CAPACITOR MAIN	
C406	ECKR2H103ZF5	CAPACITOR TRANSFORMER	*
C406	ECEA1CKA100B	CAPACITOR MAIN	
C407	ECKR1H103ZF5	CAPACITOR TRANSFORMER	*
C407	ECEA1CKA100B	CAPACITOR MAIN	
C408	ECEA1AKA470B	CAPACITOR TRANSFORMER	*
C408	ECEA1CKA100B	CAPACITOR MAIN	
C409	ECKR1H102ZF5	CAPACITOR TRANSFORMER	*
C409	ECEA1CKA100B	CAPACITOR MAIN	
C410	F1H1A2240004	CAPACITOR	
C411	ECEA1CKA100B	CAPACITOR	
C412	ECEA1CKA100B	CAPACITOR	
C413	ECEA1HKAR47B	CAPACITOR	
C414	ECEA1HKAR47B	CAPACITOR	
C415	ECUVNA154KBV	CAPACITOR	
C416	ECUVNA154KBV	CAPACITOR	
C417	ECUV1H152KBV	CAPACITOR	
C418	ECEA1CKA100B	CAPACITOR	
C419	ECQV1H474JZ3	CAPACITOR	
C420	ECQV1H474JZ3	CAPACITOR	
C421	ECEA1CKA100B	CAPACITOR	
C422	ECJ2ZB1C473K	CAPACITOR	
C423	ECJ1VC1H101K	CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C424	ECEA1HKA010B	CAPACITOR	
C425	ECJ1VC1H101K	CAPACITOR	
C426	ECJ1VC1H470J	CAPACITOR	
C427	ECEA1CKA100B	CAPACITOR	
C428	ECEA1CKA100B	CAPACITOR	
C429	ECEA1HKA010B	CAPACITOR	
C430	ECJ2VB1H153K	CAPACITOR	
C431	F1H1H821A761	CAPACITOR	
C432	F1H1H822A022	CAPACITOR	
C433	F1H1H822A022	CAPACITOR	
C434	ECEA1HKA010B	CAPACITOR	
C435	ECEA1HKAR68B	CAPACITOR	
C436	F1H1C393A089	CAPACITOR	
C437	ECJ2VB1C154K	CAPACITOR	
C438	ECEA1CKA330B	CAPACITOR	
C439	ECJ2VB1H333K	CAPACITOR	
C440	F1H1H102A761	CAPACITOR	
C441	ECJ2VB1H333K	CAPACITOR	
C442	F1H1A2240004	CAPACITOR	
C443	ECUV1H104KBV	CAPACITOR	
C5	ECBT1H5R6KC5	CAPACITOR	
C500	ECBT1H471KB5	CAPACITOR	*
C501	ECEA1HKA3R3B	CAPACITOR	
C502	ECEA1HKA3R3B	CAPACITOR	**
C502	ECBT1H471KB5	CAPACITOR	*
C503	ECA1EM101B	CAPACITOR	**
C503	ECBT1H471KB5	CAPACITOR	
C504	ECKR2H103ZF5	CAPACITOR	**
C505	ECKR2H103ZF5	CAPACITOR	*
C506	ECBT1H471KB5	CAPACITOR	*
C507	ECBT1H102KB5	CAPACITOR	**
C507	ECBT1E103ZF5	CAPACITOR	
C508	ECBT1H102KB5	CAPACITOR	**
C508	ECKR2H103ZF5	CAPACITOR	
C511	ECBT1H150JC5	CAPACITOR	*
C512	ECBT1H150JC5	CAPACITOR	*
C513	ECBT1H220JC5	CAPACITOR	*
C514	ECBT1H220JC5	CAPACITOR	*
C516	F1D1H473A012	CAPACITOR	*
C517	ECA1HM470B	CAPACITOR	*
C518	ECA1HM470B	CAPACITOR	*
C519	ECBT1H471KB5	CAPACITOR	**
C519	ECEA1CKA100B	CAPACITOR	*
C520	ECBT1H471KB5	CAPACITOR	**
C521	ECBT1H471KB5	CAPACITOR	**
C521	ECBT1H104ZF5	CAPACITOR	*
C522	ECBT1H471KB5	CAPACITOR	**
C522	ECBT1H104ZF5	CAPACITOR	*
C524	ECBT1H471KB5	CAPACITOR	**
C524	F1D1H473A012	CAPACITOR	*
C525	ECBT1H180JC5	CAPACITOR	**
C526	ECBT1H180JC5	CAPACITOR	**
C526	F1D1H473A012	CAPACITOR	*
C527	ECBT1H220JC5	CAPACITOR	**
C528	ECBT1H220JC5	CAPACITOR	**
C528	F1D1H473A012	CAPACITOR	*
C529	ECBT1H220JC5	CAPACITOR	**
C530	ECBT1H220JC5	CAPACITOR	**
C530	F1D1H473A012	CAPACITOR	*
C531	ECEA1HKNR47B	CAPACITOR	**

Ref. No.	Part No.	Part Name & Description	Remarks
C531	ECA1VM332E	CAPACITOR	* 
C532	ECKR2H103ZF5	CAPACITOR	**
C532	ECA1VM562E	CAPACITOR	* 
C533	ECKR2H103ZF5	CAPACITOR	**
C533	ECA1VM562E	CAPACITOR	* 
C534	ECKR2H103ZF5	CAPACITOR	**
C534	ECA1VM332E	CAPACITOR	* 
C535	ECA1EM101B	CAPACITOR	**
C536	ECKR2H103ZF5	CAPACITOR	**
C536	ECQV1H184JL3	CAPACITOR	*
C537	ECA1EM101B	CAPACITOR	**
C537	ECA1HM101B	CAPACITOR	*
C538	ECA1EM101B	CAPACITOR	**
C538	ECA1HM470B	CAPACITOR	*
C539	ECEA1HKA2R2B	CAPACITOR	**
C540	ECA1HM101B	CAPACITOR	**
C540	ECA1HM470B	CAPACITOR	*
C541	ECA1EM101B	CAPACITOR	**
C541	ECA1EM331B	CAPACITOR	*
C546	ECEA0JKA101B	CAPACITOR	**
C548	F1D1H473A012	CAPACITOR	**
C549	F1D1H473A012	CAPACITOR	**
C550	F1D1H473A012	CAPACITOR	**
C551	F1D1H473A012	CAPACITOR	**
C552	F1D1H473A012	CAPACITOR	**
C553	F1D1H473A012	CAPACITOR	**
C555	ECBT1H103ZF5	CAPACITOR	**
C556	F2A1V562A157	CAPACITOR	** 
C557	ECEA50V472E	CAPACITOR	** 
C558	ECEA50V472E	CAPACITOR	** 
C559	F2A1V562A157	CAPACITOR	** 
C561	F2A1E222A172	CAPACITOR	** 
C563	ECJ1VC1H101K	CAPACITOR	
C591	ECBT1H471KB5	CAPACITOR	**
C592	ECKR2H103ZF5	CAPACITOR	**
C595	ECA2AM100B	CAPACITOR	**
C6	ECBT1H3R3KC5	CAPACITOR	
C600	ECKR2H103ZF5	CAPACITOR	**
C601	ECBT1H150JC5	CAPACITOR	**
C602	ECBT1H150JC5	CAPACITOR	**
C603	ECBT1H471KB5	CAPACITOR	**
C604	ECBT1H471KB5	CAPACITOR	**
C605	ECEA1HKA010B	CAPACITOR	**
C606	ECEA1HKA010B	CAPACITOR	**
C607	ECEA1HKNR47B	CAPACITOR	**
C613	ECBT1H390J5	CAPACITOR	
C619	F1D1H473A012	CAPACITOR	
C620	ECBT1E223ZF5	CAPACITOR	
C621	ECBT1E223ZF5	CAPACITOR	
C634	ECBT1H101KB5	CAPACITOR	
C635	ECBT1H101KB5	CAPACITOR	
C636	ECBT1H104ZF5	CAPACITOR	
C637	ECBT1E103ZF5	CAPACITOR	
C638	ECBT1H102KB5	CAPACITOR	
C639	ECA1HM470B	CAPACITOR POWER	*
C639	ECEA0JKA470B	CAPACITOR PANEL	
C640	ECBT1H150JC5	CAPACITOR POWER	*
C640	ECEA1HKA3R3B	CAPACITOR MAIN	
C640	ECEA1HKA3R3B	CAPACITOR PANEL	
C641	ECBT1H150JC5	CAPACITOR POWER	*

Ref. No.	Part No.	Part Name & Description	Remarks
C641	F1H1C683A075	CAPACITOR MAIN	
C641	ECEA1VKA220B	CAPACITOR PANEL	
C642	ECBT1H471KB5	CAPACITOR POWER	*
C642	ECJ1VB1H681K	CAPACITOR MAIN	
C642	ECEA1VKA220B	CAPACITOR PANEL	
C643	ECBT1H471KB5	CAPACITOR POWER	*
C643	F1H1C683A075	CAPACITOR MAIN	
C644	ECBT1H471KB5	CAPACITOR POWER	*
C644	ECJ1VB1H681K	CAPACITOR MAIN	
C645	ECEA1HKA3R3B	CAPACITOR	
C646	ECEA1HKA3R3B	CAPACITOR	
C647	ECEA1HKA3R3B	CAPACITOR	
C648	ECEA1HKA3R3B	CAPACITOR	
C649	ECJ1VC1H470J	CAPACITOR	
C650	ECJ1VC1H101K	CAPACITOR	
C651	ECJ1VC1H470J	CAPACITOR	
C652	ECJ1VC1H101K	CAPACITOR	
C653	ECJ1VC1H101K	CAPACITOR	
C654	ECJ1VC1H470J	CAPACITOR	
C655	ECJ1VC1H101K	CAPACITOR	
C656	ECJ1VC1H470J	CAPACITOR	
C657	ECEA1HKA3R3B	CAPACITOR	
C658	ECEA1HKA3R3B	CAPACITOR	
C659	ECEA1CKA100B	CAPACITOR MAIN	
C659	ECBT1E223ZF5	CAPACITOR PANEL	
C660	ECEA1CKA100B	CAPACITOR MAIN	
C660	ECBT1E103ZF5	CAPACITOR PANEL	
C661	ECJ1VC1H470J	CAPACITOR MAIN	
C661	ECEA1HKA3R3B	CAPACITOR PANEL	
C662	ECJ1VC1H101K	CAPACITOR MAIN	
C662	ECBT1H473ZF5	CAPACITOR PANEL	
C663	ECJ1VB1E103K	CAPACITOR MAIN	
C663	ECEA1HKA010B	CAPACITOR PANEL	
C664	ECJ1VB1E103K	CAPACITOR MAIN	
C664	ECBT1H102KB5	CAPACITOR PANEL	
C665	ECJ1VC1H101K	CAPACITOR MAIN	
C665	ECBT1H101KB5	CAPACITOR PANEL	
C666	ECJ1VC1H470J	CAPACITOR MAIN	
C666	ECBT1H102KB5	CAPACITOR PANEL	
C667	ECEA1HKA3R3B	CAPACITOR MAIN	
C667	ECEA1AKA101B	CAPACITOR PANEL	
C668	ECEA1HKA0R1B	CAPACITOR MAIN	
C669	ECUV1H104KBV	CAPACITOR MAIN	
C669	ECBT1H101KB5	CAPACITOR PANEL	
C670	ECJ1VC1H470J	CAPACITOR	**
C670	ECBT1H101KB5	CAPACITOR	
C671	ECJ1VC1H101K	CAPACITOR	**
C671	ECBT1H473ZF5	CAPACITOR	
C672	ECEA1CKA100B	CAPACITOR	**
C672	ECBT1H101KB5	CAPACITOR	
C673	ECJ1VB1E103K	CAPACITOR	**
C673	ECBT1H101KB5	CAPACITOR	
C674	ECJ1VB1E103K	CAPACITOR	**
C674	ECEA1EKA470B	CAPACITOR	
C675	ECJ1VB1E103K	CAPACITOR	**
C675	ECBT1H104ZF5	CAPACITOR	
C676	ECJ1VC1H101K	CAPACITOR	**
C677	ECJ1VC1H470J	CAPACITOR	**
C677	F1D1H1040002	CAPACITOR	
C678	ECJ1VB1H221K	CAPACITOR	**

Ref. No.	Part No.	Part Name & Description	Remarks
C679	ECEA1CKA100B	CAPACITOR	**
C680	ECEA1CKA100B	CAPACITOR	**
C7	ECBT1H4R7KC5	CAPACITOR	
C700	ECKR1H102ZF5	CAPACITOR	**
C701	ECKR1H103ZF5	CAPACITOR	**
C702	ECEA1AKA470B	CAPACITOR	**
C703	RCA1CM102BT	CAPACITOR	**
C704	RCA1CM102BT	CAPACITOR	**
C705	F2A1E222A172	CAPACITOR	**
C706	ECKR1H103ZF5	CAPACITOR	**
C707	ECEA1VKA4R7B	CAPACITOR	**
C708	ECKR2H103ZF5	CAPACITOR	**
C709	ECKR2H103ZF5	CAPACITOR	**
C8	ECBT1H3R3KC5	CAPACITOR	
C826	ECJ1VC1H101K	CAPACITOR	
C827	ECJ1VC1H101K	CAPACITOR	
C828	ECJ1VC1H101K	CAPACITOR	
C829	ECJ1VC1H101K	CAPACITOR	
C9	ECBT1H2R2KC5	CAPACITOR	
C901	ECBT1H101KB5	CAPACITOR	
C902	ECBT1H101KB5	CAPACITOR	
C903	ECEA1HKA010B	CAPACITOR	
C904	ECBT1C332KR5	CAPACITOR	
C905	ECEA1HKAR47B	CAPACITOR	
C906	ECBT0J153MS5	CAPACITOR	
C907	F1C1C3330001	CAPACITOR	
C908	ECEA1CKA220B	CAPACITOR	
C909	ECBT0J153MS5	CAPACITOR	
C910	ECBT0J153MS5	CAPACITOR	
C911	ECBT1C472KR5	CAPACITOR	
C912	F1C1C3330001	CAPACITOR	
C913	ECBT1E103ZF5	CAPACITOR	
C914	ECBT1H151KB5	CAPACITOR	
C915	ECEA1HKA010B	CAPACITOR	
C916	ECEA1HKA4R7B	CAPACITOR	
C917	ECBT1H102KB5	CAPACITOR	
C918	ECEA1HKA3R3B	CAPACITOR	
C919	ECBT1H471KB5	CAPACITOR	
C920	ECEA1HKA010B	CAPACITOR	
C923	ECEA1AKA101B	CAPACITOR	
C941	ECBT1H102KB5	CAPACITOR	
C958	ECKR2H103ZF5	CAPACITOR	
C960	ECA1HM101B	CAPACITOR	
C965	ECA1JM101B	CAPACITOR	
C970	ECJ1VB1C103K	CAPACITOR	
C971	ECJ1VC1H101K	CAPACITOR	
C972	F1H1C683A075	CAPACITOR	
C973	ECJ2VB1H153K	CAPACITOR	
C974	ECJ1VC1H101K	CAPACITOR	
C975	ECJ1VC1H470J	CAPACITOR	
C976	F1H1A2240004	CAPACITOR	
C977	ECEA1CKA100B	CAPACITOR	
C978	ECEA1CKA100B	CAPACITOR	
C979	ECEA1CKA100B	CAPACITOR	
C980	ECEA1HKA101B	CAPACITOR MAIN	
C980	ECEA1HKA101B	CAPACITOR PANEL	*
C981	ECEA1AKA470B	CAPACITOR MAIN	
C981	ECBT1H150JC5	CAPACITOR PANEL	
C982	ECJ1VC1H101K	CAPACITOR MAIN	*
C982	ECBT1H150JC5	CAPACITOR PANEL	

Ref. No.	Part No.	Part Name & Description	Remarks
C983	ECEA1HKA4R7B	CAPACITOR MAIN	
C983	ECBT1H104ZF5	CAPACITOR PANEL	
C984	ECEA1HKA4R7B	CAPACITOR MAIN	
C984	ECEA1CKA100B	CAPACITOR PANEL	
C985	ECJ1VC1H101K	CAPACITOR	*
C999	ECA1EM101B	CAPACITOR	** ⚠
CF201	RLFFETWND01M	CRISTAL	
CF202	RLFFETWND01M	CRISTAL	
CONNECTORS			
CN1001	K1MN14B00058	CONNECTOR	
CN300	K1KB12B00036	CONNECTOR	
CN301	K1KB12B00036	CONNECTOR	
CN302	K1MN30A00046	CONNECTOR	
CN303	RJS1A9417-1	CONNECTOR	
CN304	RJS1A9414-1	CONNECTOR	
CN305	K1KA02A00008	CONNECTOR	**
CN309	RJS1A9414-1	CONNECTOR	
CN310	RJS2A8024-1	CONNECTOR	
CN400	RJT119W13H	CONNECTOR	**
CN401	RJP6G18ZA	CONNECTOR	**
CN501	RJT119W13H	CONNECTOR	*
CN502	RJP6G18ZA	CONNECTOR	*
CN605	RJP3G18ZA	CONNECTOR	
CN900	RJU066H12M	CONNECTOR	
CN920	RJP6G18ZA	CONNECTOR	
CN922	K1KA09A00047	CONNECTOR	
CN971	K1MN10B00104	CONNECTOR	
CP500	K1KA12A00184	CONNECTOR	
CP501	K1KA12A00184	CONNECTOR	
CP600	K1MN10B00104	CONNECTOR	
CP601	RJS1A9417-1	CONNECTOR	
CP602	K1MN30A00046	CONNECTOR	
CP900	RJT066H12F	CONNECTOR	
CS1001	RJS1A6805-J	CONNECTOR	
CS1002	RJS1A6805-J	CONNECTOR	
DIODES			
D1	SVC211SPA-AL	DIODE	
D1003	B0ACCK000005	DIODE	
D1004	B0BC3R700004	DIODE	
D101	B0BC5R000009	DIODE	
D2	SVC211SPA-AL	DIODE	
D201	MA2J72800L	DIODE	
D3	SVC211SPA-AL	DIODE	
D301	B0BC7R500001	DIODE	
D302	B0ACCK000005	DIODE	
D303	B0ADCJ000020	DIODE	
D304	B0ADCJ000020	DIODE	
D305	B0ADCJ000020	DIODE	
D306	B0AAMM000009	DIODE	
D307	B0ACCK000005	DIODE	
D308	B0ACCK000005	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D309	B0AAMM000009	DIODE	
D310	B0ACCK000005	DIODE	
D312	1SS380TE-17	DIODE	
D313	1SS380TE-17	DIODE	
D314	MA2J72900L	DIODE	
D324	B0ACCK000005	DIODE	
D370	B0ACCK000005	DIODE	**
D371	UDZSTE1710B	DIODE	**
D374	B0AAMM000009	DIODE	**
D375	B0ACCK000005	DIODE	**
D376	B0ACCK000005	DIODE	**
D377	B0ACCK000005	DIODE	**
D400	1T3T	DIODE	*
D401	1T3T	DIODE	*
D401	MA2J72800L	DIODE	
D402	1T3T	DIODE	*
D403	1T3T	DIODE	*
D404	B0AACK000004	DIODE	*
D405	1T3T	DIODE	*
D406	1T3T	DIODE	*
D407	1T3T	DIODE	*
D408	B0BA7R000005	DIODE	*
D409	1T3T	DIODE	*
D410	1SS291TA	DIODE	*
D411	1T3T	DIODE	*
D500	B0BA9R600002	DIODE	**
D500	RL1N4003S-P	DIODE	*
D501	MTZJ5R6ATA	DIODE	**
D501	RL1N4003S-P	DIODE	*
D502	RL1N4003S-P	DIODE	**
D503	RL1N4003S-P	DIODE	**
D504	MTZJ3R6BTA	DIODE	**
D506	B0AACK000004	DIODE	*
D507	1T3T	DIODE	**
D508	B0AACK000004	DIODE	**
D509	B0BA9R600002	DIODE	**
D509	B0JAPG000019	DIODE	*
D510	B0BA9R600002	DIODE	**
D510	B0JAPG000019	DIODE	*
D511	MTZJ16ATA	DIODE	**
D511	B0EAMM000038	DIODE	* ⚠
D512	B0JAPG000019	DIODE	**
D512	B0EAMM000038	DIODE	* ⚠
D513	B0JAPG000019	DIODE	**
D513	B0EAMM000038	DIODE	* ⚠
D514	B0EAMM000038	DIODE	* ⚠
D515	B0EAMM000038	DIODE	* ⚠
D516	B0EAMM000038	DIODE	* ⚠
D517	B0EAMM000038	DIODE	* ⚠
D518	B0EAMM000038	DIODE	* ⚠
D519	MTZJ24DTA	DIODE	*
D520	B0EAMM000038	DIODE	** ⚠
D520	MTZJ24DTA	DIODE	*
D521	B0EAMM000038	DIODE	** ⚠
D521	MTZJ24DTA	DIODE	*
D522	B0EAMM000038	DIODE	** ⚠
D522	MTZJ24DTA	DIODE	*
D523	B0EAMM000038	DIODE	** ⚠
D524	B0EAMM000038	DIODE	** ⚠
D525	B0EAMM000038	DIODE	** ⚠

Ref. No.	Part No.	Part Name & Description	Remarks
D530	B0JAPG000019	DIODE	**
D531	B0JAPG000019	DIODE	**
D555	RL1N4003S-P	DIODE	** ⚠
D556	RL1N4003S-P	DIODE	** ⚠
D590	1T3T	DIODE	**
D591	1T3T	DIODE	**
D592	1T3T	DIODE	**
D600	B3AAA0000583	DIODE	
D610	B3ABA0000397	DIODE	
D611	B3ABA0000397	DIODE	
D612	B3ABA0000397	DIODE	
D613	B0BA5R600016	DIODE	
D614	B3ABA0000397	DIODE	
D615	B3ABA0000397	DIODE	
D616	B3ABA0000397	DIODE	
D617	B3ABA0000397	DIODE	
D618	B3ABA0000397	DIODE	
D619	B3ABA0000397	DIODE	
D620	B0AACK000004	DIODE	**
D620	B0AACK000004	DIODE	*
D621	B0AACK000004	DIODE	**
D621	B0AACK000004	DIODE	*
D700	B0AACK000004	DIODE	**
D701	1T3T	DIODE	**
D702	1SS291TA	DIODE	**
D703	1T3T	DIODE	**
D704	1T3T	DIODE	**
D705	B0BA7R000005	DIODE	**
D706	1T3T	DIODE	**
D707	1T3T	DIODE	**
D708	1T3T	DIODE	**
D709	1T3T	DIODE	**
D710	1T3T	DIODE	**
D711	1T3T	DIODE	**
D906	B0BA5R000004	DIODE	
D951	MA2C16500E	DIODE	
D958	B0AAMM000009	DIODE	
D959	B0AAMM000009	DIODE	
D960	MA8300MTX	DIODE	
D971	MA2C16500E	DIODE	
D990	B0ACCK000005	DIODE	
D991	MA728TX	DIODE	
D992	MA728TX	DIODE	
EARTH TERMINAL			
E500	SNE1004-2	EARTH TERMINAL	
FUSE HOLDERS			
FC1	EYF52BC	FUSE HOLDER	
FC2	EYF52BC	FUSE HOLDER	
DISPLAY TUBE			
FL601	RSLM0001-F	DISPLAY	
HOLDERS			
H500	RJS1A5513	HOLDER	

Ref. No.	Part No.	Part Name & Description	Remarks
H601	RMR0315	HOLDER	
H605	RMR0312	HOLDER	
H920	RMR0315	HOLDER	
H921A	RMR0314	HOLDER	
H921B	RMR0314	HOLDER	
H922	RMR0318	HOLDER	
H923A	RMR0321	HOLDER	
H923B	RMR0321	HOLDER	
INTEGRATED CIRCUITS			
IC1001	AN7348S-E1	INTEGRATED CIRCUIT	
IC1004	C1AA00000612	INTEGRATED CIRCUIT	
IC101	LA1833NMNTLM	INTEGRATED CIRCUIT	
IC102	LC72131MDTRM	INTEGRATED CIRCUIT	
IC300	C1BB00000747	INTEGRATED CIRCUIT	
IC301	C0AABB000117	INTEGRATED CIRCUIT	
IC302	C1BB00000086	INTEGRATED CIRCUIT	
IC305	C2CBJF000010	INTEGRATED CIRCUIT	
IC306	C0ABCB000040	INTEGRATED CIRCUIT	
IC307	C0ABBB000067	INTEGRATED CIRCUIT	
IC308	C0ABBB000067	INTEGRATED CIRCUIT	**
IC310	C0ABBB000067	INTEGRATED CIRCUIT	
IC500	C5BA00000105	INTEGRATED CIRCUIT	
IC501	RSN311W64B-P	INTEGRATED CIRCUIT	
IC601	C1BB00000574	INTEGRATED CIRCUIT	
IC602	MSM9805-602GS-K	INTEGRATED CIRCUIT	
IC900	C1BB00000716	INTEGRATED CIRCUIT	
IC902	C0HBB0000035	INTEGRATED CIRCUIT	
IC903	C0HBB0000035	INTEGRATED CIRCUIT	
IC951	CNB13030R2AU	INTEGRATED CIRCUIT	
IC971	CNB13030R2AU	INTEGRATED CIRCUIT	
JACKS			
JK101	RJH5404-1J	JACK	
JK300	RJH2206	JACK	
JK500	SJS9236-J	JACK TRANSFORMER	*
JK500	RJR0054B-J	JACK POWER	
JK501	RJR0054C-J	JACK	
JK502	RJH2307N	JACK	**
JK502	SJF3068-12N	JACK	*
JK601	K2HC103A0023	JACK	
JK700	SJS9236-J	JACK	**
JK930	RJJ67TN01-J	JACK	
JK931	RJJ67TN01-J	JACK	
COILS			
L1	RLQZP1R2KT-Y	COIL	
L1001	G0C470JA0030	COIL	
L1002	7L1A62N	COIL	
L102	G0C1R0KA0037	COIL	
L2	RLQZPR47KT-Y	COIL	
L303	G0C101JA0030	COIL	
L304	RLQB3R3KT-1Y	COIL	
L305	J0JBC0000019	COIL	
L600	RLQB3R3KT-1Y	COIL	
L601	RLQB101KT-1Y	COIL	
L602	RLQZP101KT-Y	COIL	

Ref. No.	Part No.	Part Name & Description	Remarks
L603	RLQZP101KT-Y	COIL	
L604	RLQZP100KT-Y	COIL	
L605	RLQZP100KT-Y	COIL	
L606	RLQZP100KT-Y	COIL	
L607	RLQB3R3KT-1Y	COIL	
L608	RLQB100KT-1Y	COIL	
L609	RLQZP100KT-Y	COIL	
L610	RLQB100KT-1Y	COIL	
TRANSISTORS			
Q1	2SK544F-AC	TRANSISTOR	
Q1001	KTC3875GRTA	TRANSISTOR	
Q1003	B1AAGC000007	TRANSISTOR	
Q1004	B1AAGC000007	TRANSISTOR	
Q1005	B1AAGC000007	TRANSISTOR	
Q1006	KRC114STA	TRANSISTOR	
Q1007	KTC3875GRTA	TRANSISTOR	
Q101	2SC2058SPTA	TRANSISTOR	
Q1012	KTD1304TA	TRANSISTOR	
Q1013	KTD1304TA	TRANSISTOR	
Q1014	B1ABCF000011	TRANSISTOR	
Q1015	B1ABCF000011	TRANSISTOR	
Q1016	KRA102STA	TRANSISTOR	
Q1017	KTD1146YTA	TRANSISTOR	
Q1020	KTD1304TA	TRANSISTOR	
Q1021	KTD1304TA	TRANSISTOR	
Q106	KRA102MTA	TRANSISTOR	
Q2	2SC2786MTA	TRANSISTOR	
Q201	KTC3875GRTA	TRANSISTOR	
Q202	KTD1304TA	TRANSISTOR	
Q203	KTD1304TA	TRANSISTOR	
Q204	KTC3875GRTA	TRANSISTOR	
Q205	KTC3875GRTA	TRANSISTOR	
Q207	KTD1304TA	TRANSISTOR	
Q208	KTC3875GRTA	TRANSISTOR	
Q3	2SC2787FL1TA	TRANSISTOR	
Q301	KRA102STA	TRANSISTOR	**
Q302	KRC101STA	TRANSISTOR	
Q303	KTA12710YTA	TRANSISTOR POWER	*
Q303	KRC101STA	TRANSISTOR MAIN	
Q304	KTC3199GRTA	TRANSISTOR	*
Q308	KTA12710YTA	TRANSISTOR	
Q309	KTC3199GRTA	TRANSISTOR	
Q310	KRA110MTA	TRANSISTOR	
Q312	KRC102MTA	TRANSISTOR	
Q313	KTC3875GRTA	TRANSISTOR	
Q314	KTC3875GRTA	TRANSISTOR	
Q315	KRC103MTA	TRANSISTOR	
Q316	KTA1267GRTA	TRANSISTOR	
Q317	KTA1267GRTA	TRANSISTOR	
Q318	KRC102MTA	TRANSISTOR	
Q319	KRC102MTA	TRANSISTOR	
Q320	KRC102MTA	TRANSISTOR	
Q321	KRA102MTA	TRANSISTOR	
Q322	KRC102MTA	TRANSISTOR	
Q323	KRC102STA	TRANSISTOR	
Q324	KTA12710YTA	TRANSISTOR	
Q325	KRA102MTA	TRANSISTOR	
Q370	B1ADCF000001	TRANSISTOR	**

Ref. No.	Part No.	Part Name & Description	Remarks
Q371	2SD0592ARA	TRANSISTOR	**
Q372	B1ADCF000001	TRANSISTOR	**
Q373	2SD0592ARA	TRANSISTOR	**
Q374	B1ADCF000001	TRANSISTOR	**
Q375	B1ABCF000011	TRANSISTOR	**
Q380	KTD1304TA	TRANSISTOR	
Q381	KTD1304TA	TRANSISTOR	**
Q4	2SC2787FL1TA	TRANSISTOR	
Q400	KRC102MTA	TRANSISTOR	*
Q401	KTC3199GRTA	TRANSISTOR TRANSFORMER	*
Q401	KTC3875GRTA	TRANSISTOR MAIN	
Q402	B1AAGC000007	TRANSISTOR TRANSFORMER	*
Q402	KTD1304TA	TRANSISTOR MAIN	
Q403	KTC3205YTA	TRANSISTOR TRANSFORMER	*
Q403	KTD1304TA	TRANSISTOR MAIN	
Q404	KTC3875GRTA	TRANSISTOR	
Q405	KTC3875GRTA	TRANSISTOR	
Q406	KTC3875GRTA	TRANSISTOR	
Q407	KTD1304TA	TRANSISTOR	
Q408	KTC3875GRTA	TRANSISTOR	
Q500	KTC3199GRTA	TRANSISTOR	**
Q501	2SD2395E	TRANSISTOR	**
Q501	KTC3199GRTA	TRANSISTOR	
Q502	KTC3199GRTA	TRANSISTOR	
Q503	KTC3199GRTA	TRANSISTOR	
Q504	2SC3940ARA	TRANSISTOR	**
Q505	KRA102MTA	TRANSISTOR	**
Q505	B1AAGC000007	TRANSISTOR	*
Q506	2SC3940ARA	TRANSISTOR	**
Q506	KTC3199GRTA	TRANSISTOR	
Q507	KTA1046	TRANSISTOR	**
Q507	KTC3199GRTA	TRANSISTOR	
Q508	2SD2395E	TRANSISTOR	**
Q509	2SD2395E	TRANSISTOR	**
Q606	KTC3199GRTA	TRANSISTOR	
Q607	2SC1740SSTA	TRANSISTOR	
Q610	KTC3199GRTA	TRANSISTOR	
Q611	KTC3199GRTA	TRANSISTOR	
Q612	KTC3199GRTA	TRANSISTOR	
Q615	KTA12710YTA	TRANSISTOR	
Q616	KTC3199GRTA	TRANSISTOR	
Q617	KTA12710YTA	TRANSISTOR	
Q618	KRC103MTA	TRANSISTOR	
Q619	KRC103MTA	TRANSISTOR	
Q700	KTC3199GRTA	TRANSISTOR	**
Q701	B1AAGC000007	TRANSISTOR	**
Q702	KTC3205YTA	TRANSISTOR	**
Q703	KRC102MTA	TRANSISTOR	**
Q871	KTA12710YTA	TRANSISTOR	
Q872	KRC102STA	TRANSISTOR	
Q873	KRA102STA	TRANSISTOR	
Q900	2SC1740SSTA	TRANSISTOR	
Q951	2SB621ARSTA	TRANSISTOR	
Q952	KRC101STA	TRANSISTOR	
Q953	KRA102STA	TRANSISTOR	
Q970	KTA1504GRTA	TRANSISTOR	
Q971	KTC3875GRTA	TRANSISTOR	
Q972	KTD1304TA	TRANSISTOR	
Q973	KTD1304TA	TRANSISTOR	
Q974	KTD1304TA	TRANSISTOR	*

Ref. No.	Part No.	Part Name & Description	Remarks
Q975	KRA102STA	TRANSISTOR	
Q976	KRC102STA	TRANSISTOR	
Q977	KTD1304TA	TRANSISTOR	
Q978	KTD1304TA	TRANSISTOR	
RESISTORS			
R1	ERDS2TJ104T	RESISTOR	
R10	ERDS2TJ391T	RESISTOR	
R1001	D0GB1R0JA002	RESISTOR	
R1003	ERJ3GEYJ103V	RESISTOR	
R1004	D0GB152JA002	RESISTOR	
R1005	ERJ3GEYJ472V	RESISTOR	
R1006	ERJ3GEYJ102V	RESISTOR	
R1007	ERD25FVJ4R7T	RESISTOR	
R1008	ERJ3GEYJ223V	RESISTOR	
R1009	D0GB183JA002	RESISTOR	
R101	ERJ3GEY0R00V	RESISTOR	
R1010	D0GB183JA002	RESISTOR	
R1011	ERJ3GEYJ103V	RESISTOR	
R1012	ERJ3GEYJ472V	RESISTOR	
R1013	ERJ3GEYJ472V	RESISTOR	
R1014	ERJ3GEYJ472V	RESISTOR	
R1015	ERJ3GEYJ470V	RESISTOR	
R1016	ERJ3GEYJ470V	RESISTOR	
R1017	ERJ3GEYJ822V	RESISTOR	
R1018	D0GB392JA002	RESISTOR	
R1019	D0GB392JA002	RESISTOR	
R102	ERJ3GEYJ472V	RESISTOR	
R1022	ERJ3GEYJ103V	RESISTOR	
R1026	ERJ3GEYJ102V	RESISTOR	
R1028	ERJ3GEYJ822V	RESISTOR	
R1029	D0GB475JA008	RESISTOR	
R103	D0GB271JA002	RESISTOR	
R1030	D0GB101JA002	RESISTOR	
R1031	D0GB273JA002	RESISTOR	
R1032	ERJ3GEYJ103V	RESISTOR	
R1035	ERJ3GEYJ103V	RESISTOR	
R1038	ERJ3GEYJ472V	RESISTOR	
R1039	ERJ3GEYJ153V	RESISTOR	
R104	ERJ3GEYJ102V	RESISTOR	
R1040	ERJ3GEY0R00V	RESISTOR	
R1045	ERJ3GEYJ104V	RESISTOR	
R1046	ERJ3GEYJ104V	RESISTOR	
R1047	ERJ3GEYJ102V	RESISTOR	
R1048	ERJ3GEYJ102V	RESISTOR	
R1049	D0GB105JA002	RESISTOR	
R105	ERJ3GEYJ471V	RESISTOR	
R1050	D0GB105JA002	RESISTOR	
R1051	ERJ3GEYJ221V	RESISTOR	
R1052	ERJ3GEYJ221V	RESISTOR	
R1053	ERJ3GEYJ681V	RESISTOR	
R1054	ERJ3GEYJ681V	RESISTOR	
R1055	ERJ3GEYJ222V	RESISTOR	
R1056	ERJ3GEYJ221V	RESISTOR	
R1057	ERJ3GEYJ222V	RESISTOR	
R1058	D0GB272JA002	RESISTOR	
R1059	ERJ3GEYJ103V	RESISTOR	
R106	D0GB474JA002	RESISTOR	
R1060	ERJ3GEYJ391V	RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R1061	ERJ3GEY0R00V	RESISTOR	
R107	D0GB331JA002	RESISTOR	
R1084	ERJ3GEYJ222V	RESISTOR	
R1085	ERJ3GEYJ473V	RESISTOR	
R1086	ERJ3GEYJ222V	RESISTOR	
R1087	ERJ3GEYJ473V	RESISTOR	
R1090	ERJ3GEYJ221V	RESISTOR	
R1091	ERJ3GEYJ222V	RESISTOR	
R1092	ERJ3GEYJ222V	RESISTOR	
R1093	ERJ3GEYJ102V	RESISTOR	
R1094	ERJ3GEYJ102V	RESISTOR	
R1095	ERJ3GEYJ104V	RESISTOR	
R1096	ERJ3GEYJ104V	RESISTOR	
R1097	ERJ3GEYJ103V	RESISTOR	
R1098	ERJ3GEYJ103V	RESISTOR	
R11	ERDS2TJ684T	RESISTOR	
R110	ERJ3GEYJ102V	RESISTOR	
R111	ERJ3GEYJ391V	RESISTOR	
R112	ERJ3GEYJ104V	RESISTOR	
R113	ERJ3GEYJ103V	RESISTOR	
R114	D0GB562JA002	RESISTOR	
R115	ERJ3GEYJ561V	RESISTOR	
R116	ERJ3GEYJ102V	RESISTOR	
R117	ERJ3GEYJ473V	RESISTOR	
R118	D0GB332JA002	RESISTOR	
R119	D0GB332JA002	RESISTOR	
R120	ERJ3GEYJ473V	RESISTOR	
R121	ERJ3GEYJ223V	RESISTOR	
R122	D0GB272JA002	RESISTOR	
R123	D0GB683JA002	RESISTOR	
R124	ERJ3GEYJ330V	RESISTOR	
R125	ERJ3GEYJ471V	RESISTOR	
R126	ERJ3GEYJ102V	RESISTOR	
R127	ERJ3GEYJ471V	RESISTOR	
R128	D0GB820JA019	RESISTOR	
R129	D0GB273JA002	RESISTOR	
R130	ERJ3GEYJ103V	RESISTOR	
R131	D0GB121JA002	RESISTOR	
R132	ERJ3GEYJ103V	RESISTOR	
R133	ERJ3GEYJ102V	RESISTOR	
R134	ERJ3GEYJ471V	RESISTOR	
R135	ERJ3GEYJ102V	RESISTOR	
R136	ERJ3GEYJ102V	RESISTOR	
R137	ERJ3GEYJ102V	RESISTOR	
R138	D0GB332JA002	RESISTOR	
R141	ERJ3GEYJ682V	RESISTOR	
R142	ERJ3GEYJ682V	RESISTOR	
R143	ERJ3GEYJ223V	RESISTOR	
R144	D0GB121JA002	RESISTOR	
R145	ERJ3GEYJ104V	RESISTOR	
R146	ERJ3GEYJ104V	RESISTOR	
R151	D0GB820JA019	RESISTOR	
R152	ERJ3GEY0R00V	RESISTOR	
R2	ERDS2TJ104T	RESISTOR	
R201	ERJ3GEYJ103V	RESISTOR	
R202	D0GB332JA002	RESISTOR	
R203	D0GB1R0JA002	RESISTOR	
R204	ERJ3GEYJ330V	RESISTOR	
R205	ERJ3GEYJ330V	RESISTOR	
R206	ERJ3GEYJ330V	RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R207	ERJ3GEYJ330V	RESISTOR	
R208	D0GB332JA002	RESISTOR	
R209	ERJ3GEYJ561V	RESISTOR	
R210	D0GB820JA019	RESISTOR	
R211	D0GB562JA002	RESISTOR	
R212	ERJ3GEYJ102V	RESISTOR	
R213	ERJ3GEYJ473V	RESISTOR	
R214	ERJ3GEYJ102V	RESISTOR	
R215	ERJ3GEYJ473V	RESISTOR	
R216	ERJ3GEYJ104V	RESISTOR	
R217	ERJ3GEYJ473V	RESISTOR	
R218	ERDS2TJ822T	RESISTOR	
R219	D0GB152JA002	RESISTOR	
R220	D0GB392JA002	RESISTOR	
R221	ERJ3GEYJ473V	RESISTOR	
R222	D0GB821JA002	RESISTOR	
R223	D0GB272JA002	RESISTOR	
R224	ERJ3GEYJ472V	RESISTOR	
R225	ERJ3GEYJ473V	RESISTOR	
R226	ERJ3GEYJ222V	RESISTOR	
R227	D0GB683JA002	RESISTOR	
R228	ERJ3GEYJ222V	RESISTOR	
R229	ERJ3GEYJ123V	RESISTOR	
R230	ERJ3GEYJ102V	RESISTOR	
R231	ERJ3GEYJ104V	RESISTOR	
R232	ERJ3GEYJ222V	RESISTOR	
R233	ERJ3GEYJ472V	RESISTOR	
R234	ERJ3GEYJ104V	RESISTOR	
R235	D0GB152JA002	RESISTOR	
R236	D0GB183JA002	RESISTOR	
R237	D0GB183JA002	RESISTOR	
R238	ERJ3GEYJ224V	RESISTOR	
R239	ERJ3GEYJ472V	RESISTOR	
R240	ERJ3GEYJ472V	RESISTOR	
R241	ERJ3GEYJ123V	RESISTOR	
R242	D0GB562JA002	RESISTOR	
R243	D0GB272JA002	RESISTOR	
R244	ERJ3GEYJ182V	RESISTOR	
R245	ERJ3GEYJ221V	RESISTOR	
R247	ERJ3GEYJ221V	RESISTOR	
R248	D0GB4R7JA008	RESISTOR	
R249	ERJ3GEYJ221V	RESISTOR	
R255	ERJ3GEYJ104V	RESISTOR	
R256	D0GB152JA002	RESISTOR	
R257	ERJ3GEYJ123V	RESISTOR	
R258	ERJ3GEYJ224V	RESISTOR	
R259	D0GB152JA002	RESISTOR	*
R3	ERDS2TJ221T	RESISTOR	
R300	ERJ3GEYJ102V	RESISTOR	
R301	ERJ3GEYJ472V	RESISTOR	
R302	ERJ3GEYJ103V	RESISTOR	
R303	ERDS1FVJ270T	RESISTOR	
R304	ERJ3GEYJ103V	RESISTOR	
R305	ERJ3GEYJ682V	RESISTOR	
R307	ERJ3GEYJ222V	RESISTOR	
R308	ERJ3GEYJ222V	RESISTOR	
R309	D0GB273JA002	RESISTOR	
R310	D0GB563JA002	RESISTOR	
R311	ERJ3GEYJ102V	RESISTOR	
R313	ERJ3GEYJ104V	RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R318	ERJ3GEY0R00V	RESISTOR	
R320	D0GB101JA002	RESISTOR	
R321	D0GB101JA002	RESISTOR	
R322	D0GB101JA002	RESISTOR	
R323	ERDS1FVJ150T	RESISTOR	
R324	ERD2FCVG120T	RESISTOR	
R325	ERJ3GEYJ103V	RESISTOR	
R326	D0GB101JA002	RESISTOR	
R327	ERJ3GEYJ222V	RESISTOR	
R328	D0GB392JA002	RESISTOR	
R329	D0GB331JA002	RESISTOR	
R330	ERJ3GEY0R00V	RESISTOR	
R331	ERJ3GEY0R00V	RESISTOR	
R332	D0GB101JA002	RESISTOR	
R333	D0GB101JA002	RESISTOR	
R334	D0GB101JA002	RESISTOR	
R335	D0GB101JA002	RESISTOR	
R336	D0GB101JA002	RESISTOR	
R337	ERJ3GEYJ102V	RESISTOR	
R338	ERJ3GEYJ102V	RESISTOR	
R340	ERJ3GEYJ103V	RESISTOR	
R343	ERJ3GEYJ103V	RESISTOR	
R344	ERJ3GEYJ223V	RESISTOR	
R345	ERJ3GEYJ123V	RESISTOR	
R346	ERJ3GEYJ223V	RESISTOR	
R347	ERJ3GEYJ123V	RESISTOR	
R348	ERJ3GEYJ221V	RESISTOR	
R349	ERJ3GEYJ102V	RESISTOR	
R350	ERJ3GEYJ103V	RESISTOR	
R352	D0GB562JA002	RESISTOR	
R353	ERJ3GEYJ822V	RESISTOR	
R354	D0GB101JA002	RESISTOR	
R355	ERJ3GEYJ472V	RESISTOR	
R356	ERJ3GEYJ472V	RESISTOR	
R357	ERJ3GEYJ102V	RESISTOR	
R358	ERJ3GEYJ103V	RESISTOR	
R359	ERJ3GEYJ103V	RESISTOR	
R360	ERJ3GEYJ103V	RESISTOR	
R361	ERJ3GEYJ102V	RESISTOR	
R362	ERJ3GEYJ102V	RESISTOR	
R363	ERJ3GEYJ102V	RESISTOR	
R364	ERJ3GEYJ102V	RESISTOR	
R365	ERJ3GEYJ102V	RESISTOR	
R366	ERJ3GEYJ102V	RESISTOR	
R368	ERJ3GEYJ103V	RESISTOR	
R369	ERJ3GEYJ103V	RESISTOR	
R370	ERJ3GEYJ104V	RESISTOR	**
R371	ERJ3GEYJ472V	RESISTOR	**
R372	ERJ3GEYJ472V	RESISTOR	**
R373	D0GB332JA002	RESISTOR	**
R374	ERJ3GEYJ104V	RESISTOR	**
R375	ERJ3GEYJ103V	RESISTOR	**
R376	ERDS1FVJ220T	RESISTOR	**
R377	ERJ3GEYJ224V	RESISTOR	**
R378	D0GB101JA002	RESISTOR	**
R379	ERJ3GEYJ104V	RESISTOR	**
R380	ERJ3GEYJ103V	RESISTOR	
R381	ERJ3GEYJ225V	RESISTOR	**
R382	ERJ3GEYJ103V	RESISTOR	
R383	ERJ3GEYJ103V	RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R384	ERJ3GEYJ103V	RESISTOR	
R385	ERJ3GEYJ103V	RESISTOR	
R386	ERJ3GEYJ103V	RESISTOR	
R387	ERJ3GEYJ103V	RESISTOR	
R388	ERJ3GEYJ103V	RESISTOR	
R389	ERJ3GEYJ103V	RESISTOR	
R390	ERJ3GEYJ103V	RESISTOR	
R391	ERJ3GEYJ472V	RESISTOR	
R392	ERJ3GEYJ103V	RESISTOR	
R393	ERJ3GEYJ103V	RESISTOR	
R394	ERJ3GEYJ103V	RESISTOR	
R395	ERJ3GEYJ473V	RESISTOR	
R396	ERJ3GEYJ473V	RESISTOR	
R398	ERJ3GEYJ103V	RESISTOR	**
R399	ERJ3GEYJ103V	RESISTOR	**
R4	ERDS2TJ104T	RESISTOR	
R400	ERDS2TJ103T	RESISTOR TRANSFORMER	*
R400	ERJ3GEYJ103V	RESISTOR MAIN	
R401	ERDS2TJ103T	RESISTOR TRANSFORMER	*
R401	ERJ3GEYJ103V	RESISTOR MAIN	
R402	ERDS2TJ331T	RESISTOR TRANSFORMER	*
R402	D0GB332JA002	RESISTOR MAIN	
R403	ERDS2TJ150T	RESISTOR TRANSFORMER	*
R403	D0GB1R0JA002	RESISTOR MAIN	
R404	ERDS2TJ272T	RESISTOR TRANSFORMER	*
R404	ERJ3GEYJ330V	RESISTOR MAIN	
R405	ERDS2TJ122T	RESISTOR TRANSFORMER	*
R405	ERJ3GEYJ330V	RESISTOR MAIN	
R406	ERDS2TJ824T	RESISTOR TRANSFORMER	*
R406	ERJ3GEYJ330V	RESISTOR MAIN	
R407	ERDS1FVJ220T	RESISTOR TRANSFORMER	*
R407	ERJ3GEYJ330V	RESISTOR MAIN	
R408	ERDS1FVJ180T	RESISTOR TRANSFORMER	*
R408	D0GB332JA002	RESISTOR MAIN	
R409	ERDS1FVJ180T	RESISTOR TRANSFORMER	*
R409	ERJ3GEYJ561V	RESISTOR MAIN	
R410	RSFMB40KT-L	RESISTOR TRANSFORMER	* 
R410	D0GB820JA019	RESISTOR	
R411	D0GB562JA002	RESISTOR	
R412	ERJ3GEYJ102V	RESISTOR	
R413	ERJ3GEYJ473V	RESISTOR	
R414	ERJ3GEYJ102V	RESISTOR	
R415	ERJ3GEYJ473V	RESISTOR	
R416	ERJ3GEYJ104V	RESISTOR	
R417	ERJ3GEYJ473V	RESISTOR	
R418	ERDS2TJ822T	RESISTOR	
R419	D0GB152JA002	RESISTOR	
R420	D0GB392JA002	RESISTOR	
R421	ERJ3GEYJ473V	RESISTOR	
R422	D0GB821JA002	RESISTOR	
R423	D0GB272JA002	RESISTOR	
R424	ERJ3GEYJ472V	RESISTOR	
R425	ERJ3GEYJ473V	RESISTOR	
R426	ERJ3GEYJ222V	RESISTOR	
R427	D0GB683JA002	RESISTOR	
R428	ERJ3GEYJ222V	RESISTOR	
R429	ERJ3GEYJ123V	RESISTOR	
R430	ERJ3GEYJ102V	RESISTOR	
R431	ERJ3GEYJ104V	RESISTOR	
R432	ERJ3GEYJ222V	RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R433	ERJ3GEYJ472V	RESISTOR	
R434	ERJ3GEYJ104V	RESISTOR	
R435	D0GB152JA002	RESISTOR	
R436	D0GB183JA002	RESISTOR	
R437	D0GB183JA002	RESISTOR	
R438	ERJ3GEYJ224V	RESISTOR	
R439	ERJ3GEYJ472V	RESISTOR	
R440	ERJ3GEYJ472V	RESISTOR	
R441	ERJ3GEYJ123V	RESISTOR	
R442	D0GB562JA002	RESISTOR	
R443	D0GB272JA002	RESISTOR	
R444	ERJ3GEYJ182V	RESISTOR	
R445	ERJ3GEYJ221V	RESISTOR	
R446	ERJ3GEYJ223V	RESISTOR	
R447	ERJ3GEYJ221V	RESISTOR	
R448	D0GB4R7JA008	RESISTOR	
R449	ERJ3GEYJ221V	RESISTOR	
R450	ERJ3GEYJ472V	RESISTOR	
R451	ERJ3GEYJ223V	RESISTOR	
R452	D0GB101JA002	RESISTOR	
R453	ERJ3GEYJ472V	RESISTOR	
R454	ERJ3GEYJ472V	RESISTOR	
R455	ERJ3GEYJ104V	RESISTOR	
R456	D0GB152JA002	RESISTOR	
R457	ERJ3GEYJ123V	RESISTOR	
R458	ERJ3GEYJ224V	RESISTOR	
R459	D0GB152JA002	RESISTOR	*
R5	ERDS2TJ564T	RESISTOR	
R500	ERDS2TJ273T	RESISTOR	*
R501	ERDS2TJ392T	RESISTOR	**
R501	ERDS2TJ273T	RESISTOR	*
R502	ERDS2TJ392T	RESISTOR	**
R502	ERDS2TJ272T	RESISTOR	*
R503	ERDS2TJ101T	RESISTOR	**
R503	ERDS2TJ272T	RESISTOR	*
R504	ERDS2TJ391T	RESISTOR	**
R504	ERDS2TJ273T	RESISTOR	*
R505	ERDS2TJ101T	RESISTOR	**
R505	ERDS2TJ273T	RESISTOR	
R506	ERDS2TJ272T	RESISTOR	*
R507	ERDS2TJ272T	RESISTOR	*
R511	ERDS2TJ563T	RESISTOR	*
R512	ERDS2TJ563T	RESISTOR	*
R513	ERDS2TJ563T	RESISTOR	*
R514	ERDS2TJ563T	RESISTOR	*
R518	ERDS2TJ474T	RESISTOR	*
R519	ERDS2TJ272T	RESISTOR	**
R519	ERD25FVJ4R7T	RESISTOR	*
R520	ERDS2TJ153T	RESISTOR	**
R520	ERD25FVJ4R7T	RESISTOR	*
R521	ERDS2TJ273T	RESISTOR	**
R521	ERDS2TJ151T	RESISTOR	*
R522	ERDS2TJ272T	RESISTOR	**
R522	ERDS2TJ224T	RESISTOR	*
R523	ERDS2TJ272T	RESISTOR	**
R523	ERDS2TJ124T	RESISTOR	*
R524	ERDS2TJ273T	RESISTOR	**
R524	ERDS2TJ154T	RESISTOR	*
R525	ERDS2TJ2R2T	RESISTOR	**
R525	ERDS2TJ184T	RESISTOR	*

Ref. No.	Part No.	Part Name & Description	Remarks
R526	ERDS2TJ2R2T	RESISTOR	**
R526	ERDS2TJ103T	RESISTOR	*
R527	ERDS2TJ104T	RESISTOR	*
R528	ERDS2TJ153T	RESISTOR	**
R528	ERDS2TJ223T	RESISTOR	*
R529	ERDS2TJ563T	RESISTOR	**
R530	ERDS2TJ563T	RESISTOR	**
R531	ERDS2TJ563T	RESISTOR	**
R532	ERDS2TJ563T	RESISTOR	**
R533	ERDS2TJ563T	RESISTOR	**
R534	ERDS2TJ563T	RESISTOR	**
R534	ERDS1FVJ100T	RESISTOR	*
R535	ERDS2TJ153T	RESISTOR	**
R536	ERDS1FVJ100T	RESISTOR	*
R536	ERDS2TJ563T	RESISTOR	**
R537	ERDS2TJ154T	RESISTOR	**
R538	ERDS2TJ154T	RESISTOR	**
R538	ERDS1FVJ2R2T	RESISTOR	*
R539	ERDS2TJ154T	RESISTOR	**
R539	ERDS1FVJ2R2T	RESISTOR	*
R540	ERDS2TJ474T	RESISTOR	**
R540	RSFMB40KT-L	RESISTOR	*
R541	ERDS2TJ124T	RESISTOR	**
R541	ERDS2TJ152T	RESISTOR	*
R542	ERDS2TJ152T	RESISTOR	*
R543	ERDS1FVJ270T	RESISTOR	**
R543	RSFMB10KT-L	RESISTOR	*
R544	ERDS2TJ473T	RESISTOR	*
R545	ERDS2TJ682T	RESISTOR	**
R545	ERDS2TJ473T	RESISTOR	*
R547	ERDS1FVJ270T	RESISTOR	**
R548	ERDS2TJ560T	RESISTOR	**
R549	ERDS2TJ101T	RESISTOR	**
R550	ERDS2TJ561T	RESISTOR	**
R551	ERDS1FVJ270T	RESISTOR	**
R552	ERDS2TJ471T	RESISTOR	**
R553	ERDS1FVJ270T	RESISTOR	**
R554	ERDS1FVJ270T	RESISTOR	**
R555	ERDS2TJ103T	RESISTOR	**
R568	ERDS2TJ103T	RESISTOR	**
R569	ERDS2TJ154T	RESISTOR	**
R570	ERDS2TJ124T	RESISTOR	**
R571	ERDS2TJ154T	RESISTOR	**
R573	ERDS1FVJ100T	RESISTOR	**
R574	ERDS1FVJ100T	RESISTOR	**
R576	ERDS2TJ223T	RESISTOR	**
R577	ERDS2TJ124T	RESISTOR	**
R578	ERDS2TJ124T	RESISTOR	**
R579	ERDS1FVJ100T	RESISTOR	**
R580	ERDS1FVJ100T	RESISTOR	**
R581	ERDS2TJ103T	RESISTOR	**
R582	ERDS1FVJ100T	RESISTOR	**
R583	ERDS1FVJ100T	RESISTOR	**
R584	ERDS2TJ154T	RESISTOR	**
R592	ERDS2TJ153T	RESISTOR	**
R595	ERDS2TJ104T	RESISTOR	**
R6	ERDS2TJ391T	RESISTOR	
R600	ERDS2TJ223T	RESISTOR	**
R600	ERDS2TJ472T	RESISTOR	*
R601	ERDS2TJ154T	RESISTOR	**

Ref. No.	Part No.	Part Name & Description	Remarks
R601	ERDS2TJ102T	RESISTOR	*
R602	ERDS2TJ154T	RESISTOR	**
R602	ERDS2TJ102T	RESISTOR	*
R603	ERDS2TJ684T	RESISTOR	**
R603	ERDS2TJ122T	RESISTOR	*
R604	ERDS1FVJ4R7T	RESISTOR	**
R604	ERDS2TJ182T	RESISTOR	*
R605	ERDS1FVJ4R7T	RESISTOR	**
R605	ERDS2TJ222T	RESISTOR	*
R606	ERDS1FVJ4R7T	RESISTOR	**
R606	ERDS2TJ272T	RESISTOR	*
R607	ERDS1FVJ4R7T	RESISTOR	**
R607	ERDS2TJ472T	RESISTOR	*
R608	ERDS2TJ563T	RESISTOR	**
R608	ERDS2TJ682T	RESISTOR	*
R609	ERDS2TJ562T	R.CARBON	**
R609	ERDS2TJ103T	RESISTOR	*
R610	ERDS2TJ563T	RESISTOR	**
R610	ERDS2TJ223T	RESISTOR	*
R611	ERDS2TJ562T	R.CARBON	**
R612	ERDS2TJ563T	RESISTOR	**
R612	ERDS2TJ102T	RESISTOR	*
R613	ERDS2TJ563T	RESISTOR	**
R613	ERDS2TJ102T	RESISTOR	*
R614	ERDS2TJ122T	RESISTOR	
R615	ERDS2TJ182T	RESISTOR	
R616	ERDS2TJ222T	RESISTOR	
R617	ERDS2TJ272T	RESISTOR	
R618	ERDS2TJ472T	RESISTOR	
R619	ERDS2TJ682T	RESISTOR	
R620	ERDS2TJ103T	RESISTOR	
R626	ERDS2TJ471T	RESISTOR	
R627	ERDS2TJ471T	RESISTOR	
R628	ERDS2TJ471T	RESISTOR	
R629	ERDS2TJ273T	RESISTOR	
R630	ERDS2TJ471T	RESISTOR	
R631	ERDS2TJ471T	RESISTOR	
R632	ERDS2TJ221T	RESISTOR	
R634	ERDS1FVJ100T	RESISTOR POWER	*
R634	ERDS2TJ103T	RESISTOR PANEL	
R635	ERDS2TJ103T	RESISTOR	
R636	ERDS1FVJ100T	RESISTOR	*
R637	ERDS2TJ563T	RESISTOR POWER	*
R637	ERJ3GEYJ103V	RESISTOR MAIN	
R638	ERDS2TJ563T	RESISTOR	*
R639	ERDS2TJ562T	RESISTOR	*
R640	ERDS2TJ562T	RESISTOR POWER	*
R640	ERDS2TJ561T	RESISTOR PANEL	
R641	ERDS2TJ124T	RESISTOR	*
R642	ERDS2TJ124T	RESISTOR POWER	*
R642	ERDS2TJ101T	RESISTOR PANEL	
R643	ERDS2TJ822T	RESISTOR	
R644	ERDS2TJ153T	RESISTOR POWER	*
R644	ERDS2TJ334T	RESISTOR PANEL	
R645	ERDS2TJ153T	RESISTOR POWER	*
R645	ERDS2TJ101T	RESISTOR PANEL	
R646	ERDS2TJ102T	RESISTOR	
R647	ERDS2TJ102T	RESISTOR	
R648	ERDS2TJ471T	RESISTOR	
R649	ERDS2TJ103T	RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R650	ERDS2TJ471T	RESISTOR	
R651	ERDS2TJ471T	RESISTOR	
R652	ERDS2TJ471T	RESISTOR	
R688	ERDS2TJ2R7T	RESISTOR	
R689	ERDS2TJ223T	RESISTOR	
R690	ERDS2TJ334T	RESISTOR	
R691	ERDS2TJ470T	RESISTOR	
R692	ERD2FCVG470T	RESISTOR	
R693	ERD2FCVG470T	RESISTOR	
R694	ERDS2TJ102T	RESISTOR	
R696	ERDS2TJ822T	RESISTOR	
R697	ERDS2TJ472T	RESISTOR	
R698	ERDS2TJ184T	R.CARBON	**
R698	ERDS2TJ102T	RESISTOR	*
R699	ERDS2TJ184T	R.CARBON	**
R699	ERDS2TJ102T	RESISTOR	*
R7	ERDS2TJ272T	RESISTOR	
R700	RSFMB40KT-L	RESISTOR	** 
R700	ERDS2TJ2R7T	RESISTOR	*
R701	ERDS1FVJ180T	RESISTOR	**
R701	ERDS2TJ223T	RESISTOR	*
R702	ERDS1FVJ180T	RESISTOR	**
R702	ERDS2TJ152T	RESISTOR	*
R703	ERDS1FVJ220T	RESISTOR	**
R704	ERDS2TJ824T	RESISTOR	**
R705	ERDS2TJ122T	RESISTOR	**
R706	ERDS2TJ152T	RESISTOR	**
R707	ERDS2TJ150T	RESISTOR	**
R708	ERDS2TJ102T	RESISTOR	**
R709	ERDS2TJ103T	RESISTOR	**
R710	ERDS2TJ103T	RESISTOR	**
R8	ERDS2TJ684T	RESISTOR	
R801	D0GB106JA008	RESISTOR	
R802	ERJ3GEYJ223V	RESISTOR	
R803	ERJ3GEYJ223V	RESISTOR	
R804	D0GB334JA002	RESISTOR	
R805	ERJ3GEYJ472V	RESISTOR	
R807	ERJ3GEYJ681V	RESISTOR	
R808	ERJ3GEYJ473V	RESISTOR	
R809	ERJ3GEYJ473V	RESISTOR	
R810	ERJ3GEYJ472V	RESISTOR	
R811	ERJ3GEYJ472V	RESISTOR	
R812	ERJ3GEYJ472V	RESISTOR	
R813	ERJ3GEYJ472V	RESISTOR	
R814	ERJ3GEYJ472V	RESISTOR	
R815	D0GB474JA002	RESISTOR	
R816	D0GB474JA002	RESISTOR	
R817	ERJ3GEYJ681V	RESISTOR	
R818	ERJ3GEYJ222V	RESISTOR	
R819	ERJ3GEYJ222V	RESISTOR	
R820	ERJ3GEYJ471V	RESISTOR	
R821	ERJ3GEY0R00V	RESISTOR	
R822	ERJ3GEY0R00V	RESISTOR	
R823	ERJ3GEY0R00V	RESISTOR	
R824	ERJ3GEY0R00V	RESISTOR	
R826	D0GB333JA002	RESISTOR	
R827	D0GB333JA002	RESISTOR	
R828	D0GB333JA002	RESISTOR	
R829	D0GB333JA002	RESISTOR	
R830	ERJ3GEY0R00V	RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R832	ERJ3GEY0R00V	RESISTOR	
R833	ERJ3GEY0R00V	RESISTOR	
R834	ERJ3GEYJ472V	RESISTOR	
R835	ERJ3GEY0R00V	RESISTOR	
R836	ERJ3GEY0R00V	RESISTOR	
R850	ERJ3GEYJ472V	RESISTOR	**
R850	ERJ3GEYJ102V	RESISTOR	
R851	ERJ3GEYJ472V	RESISTOR	**
R851	ERJ3GEYJ102V	RESISTOR	
R852	ERJ3GEYJ472V	RESISTOR	**
R852	ERJ3GEYJ102V	RESISTOR	
R853	ERJ3GEYJ102V	RESISTOR	
R854	ERJ3GEYJ102V	RESISTOR	
R855	ERJ3GEYJ102V	RESISTOR	
R856	ERJ3GEYJ102V	RESISTOR	
R857	ERJ3GEYJ102V	RESISTOR	
R858	ERJ3GEYJ472V	RESISTOR	
R859	ERJ3GEYJ473V	RESISTOR	**
R859	ERJ3GEYJ472V	RESISTOR	*
R860	ERJ3GEYJ473V	RESISTOR	
R861	ERJ3GEYJ472V	RESISTOR	
R862	ERJ3GEYJ153V	RESISTOR	
R863	D0GB332JA002	RESISTOR	
R864	ERJ3GEYJ153V	RESISTOR	
R865	D0GB272JA002	RESISTOR	
R866	D0GB272JA002	RESISTOR	
R867	ERJ3GEYJ153V	RESISTOR	
R868	D0GB332JA002	RESISTOR	
R869	ERJ3GEYJ153V	RESISTOR	
R870	ERJ3GEYJ223V	RESISTOR	**
R870	ERJ3GEYJ102V	RESISTOR	*
R871	ERJ3GEYJ102V	RESISTOR	
R872	ERJ3GEYJ102V	RESISTOR	
R873	ERJ3GEYJ223V	RESISTOR	**
R873	ERJ3GEYJ102V	RESISTOR	*
R874	ERJ3GEYJ223V	RESISTOR	
R875	ERJ3GEYJ102V	RESISTOR	
R876	D0GB273JA002	RESISTOR	
R877	ERJ3GEYJ102V	RESISTOR	
R878	D0GB563JA002	RESISTOR	
R881	ERJ3GEYJ223V	RESISTOR	
R882	ERJ3GEYJ103V	RESISTOR	**
R882	ERJ3GEYJ223V	RESISTOR	*
R883	ERJ3GEYJ223V	RESISTOR	
R884	ERJ3GEYJ223V	RESISTOR	
R885	ERJ3GEYJ104V	RESISTOR	
R886	D0GB152JA002	RESISTOR	
R887	D0GB392JA002	RESISTOR	**
R888	ERJ3GEYJ102V	RESISTOR	**
R889	ERJ3GEYJ104V	RESISTOR	**
R890	D0GB393JA002	RESISTOR	**
R891	ERJ3GEY0R00V	RESISTOR	**
R892	D0GB393JA002	RESISTOR	**
R893	D0GB152JA002	RESISTOR	**
R894	ERJ3GEYJ104V	RESISTOR	**
R895	ERJ3GEYJ222V	RESISTOR	**
R896	ERJ3GEYJ221V	RESISTOR	**
R9	ERDS2TJ391T	RESISTOR	
R900	ERDS2TJ103T	RESISTOR	
R901	ERDS2TJ102T	RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R902	ERDS2TJ102T	RESISTOR	
R903	ERDS2TJ122T	RESISTOR	
R904	ERDS2TJ182T	RESISTOR	
R905	ERDS2TJ222T	RESISTOR	
R906	ERDS2TJ272T	RESISTOR	
R907	ERDS2TJ472T	RESISTOR	
R908	ERDS2TJ682T	RESISTOR	
R909	ERDS2TJ103T	RESISTOR	
R910	ERDS2TJ223T	RESISTOR	
R911	ERDS2TJ104T	RESISTOR	
R912	ERDS2TJ473T	RESISTOR	
R913	ERDS2TJ473T	RESISTOR	
R914	ERDS2TJ563T	RESISTOR	
R915	ERDS2TJ470T	RESISTOR	
R916	ERDS2TJ104T	RESISTOR	
R917	ERDS2TJ563T	RESISTOR	
R918	ERDS2TJ470T	RESISTOR	
R919	ERDS2TJ103T	RESISTOR	
R920	ERDS2TJ103T	RESISTOR	
R921	ERDS2TJ103T	RESISTOR	
R922	ERDS2TJ103T	RESISTOR	
R926	ERDS2TJ101T	RESISTOR	
R927	ERDS2TJ101T	RESISTOR	
R928	ERDS2TJ223T	RESISTOR	
R929	ERDS2TJ223T	RESISTOR	
R930	ERDS2TJ153T	RESISTOR	
R931	ERDS2TJ472T	RESISTOR	
R932	ERDS2TJ103T	RESISTOR	
R933	ERDS2TJ102T	RESISTOR	
R934	ERDS2TJ223T	RESISTOR	
R935	ERDS2TJ823T	RESISTOR	
R936	ERDS1FVJ390T	RESISTOR	
R937	ERDS2TJ222T	RESISTOR	
R938	ERDS2TJ474T	RESISTOR	
R939	ERDS2TJ472T	RESISTOR	
R940	ERDS2TJ822T	RESISTOR	
R950	ERDS2TJ183T	RESISTOR	
R952	ERDS2TJ821T	RESISTOR	
R953	ERDS2TJ393T	RESISTOR	
R959	ERDS1FVJ4R7T	RESISTOR	
R960	ERJ3GEYJ472V	RESISTOR	
R961	D0GB151JA008	RESISTOR	
R969	ERDS2TJ681T	RESISTOR PANEL	
R970	D0GB562JA002	RESISTOR MAIN	
R970	ERDS2TJ681T	RESISTOR PANEL	
R971	D0GB562JA002	RESISTOR MAIN	
R971	ERDS2TJ103T	RESISTOR PANEL	
R972	ERJ3GEYJ102V	RESISTOR MAIN	
R972	ERDS2TJ821T	RESISTOR MECHANISM	
R973	ERJ3GEYJ102V	RESISTOR MAIN	
R973	ERDS2TJ393T	RESISTOR MECHANISM	
R974	D0GB562JA002	RESISTOR	
R975	ERJ3GEYJ182V	RESISTOR	
R976	ERJ3GEYJ224V	RESISTOR	
R977	ERJ3GEYJ473V	RESISTOR	
R978	ERJ3GEYJ104V	RESISTOR	
R979	ERJ3GEYJ103V	RESISTOR	
R980	ERJ3GEYJ103V	RESISTOR MAIN	
R980	ERDS2TJ103T	RESISTOR PANEL	
R981	D0GB183JA002	RESISTOR MAIN	

Ref. No.	Part No.	Part Name & Description	Remarks
R981	ERDS2TJ102T	RESISTOR PANEL	
R982	D0GB332JA002	RESISTOR MAIN	
R982	ERDS2TJ102T	RESISTOR PANEL	
R983	ERJ3GEY0R00V	RESISTOR MAIN	
R983	ERJ3GEYJ102V	RESISTOR	**
R983	ERDS2TJ103T	RESISTOR	*
R984	D0GB393JA002	RESISTOR MAIN	
R984	ERDS2TJ183T	RESISTOR	**
R984	ERDS2TJ472T	RESISTOR PANEL	*
R985	D0GB392JA002	RESISTOR	
R986	D0GB393JA002	RESISTOR	
R987	D0GB334JA002	RESISTOR	
R988	ERJ3GEYJ102V	RESISTOR	
R989	ERJ3GEYJ104V	RESISTOR	
R990	D0GB152JA002	RESISTOR MAIN	
R990	ERDS1FVJ390T	RESISTOR PANEL	
R991	ERJ3GEYJ221V	RESISTOR	
R992	D0GB272JA002	RESISTOR	
R993	ERJ3GEYJ102V	RESISTOR	
R994	ERJ3GEYJ472V	RESISTOR	
R995	D0GB272JA002	RESISTOR	
R996	D0GB101JA002	RESISTOR	
R997	ERJ3GEYJ153V	RESISTOR	*
R998	ERJ3GEYJ222V	RESISTOR	
R999	ERJ3GEYJ153V	RESISTOR	*
RELAY			
RL502	RSY0056M-C	RELAY	* 
RLY700	RSY0056M-C	RELAY	** 
SWITCHES			
S602	EVQ21405R	TACT SWITCH	
S603	EVQ21405R	TACT SWITCH	
S604	EVQ21405R	TACT SWITCH	
S605	EVQ11V07B	TACT SWITCH	
S606	EVQ11V07B	TACT SWITCH	
S607	EVQ11V07B	TACT SWITCH	
S608	EVQ11V07B	TACT SWITCH	
S609	EVQ11V07B	TACT SWITCH	
S610	EVQ11V07B	TACT SWITCH	
S612	EVQ21405R	TACT SWITCH	
S613	EVQ21405R	TACT SWITCH	
S614	EVQ11V07B	TACT SWITCH	
S615	EVQ11V07B	TACT SWITCH	
S616	EVQ11V07B	TACT SWITCH	
S617	EVQ11V07B	TACT SWITCH	
S618	EVQ21405R	TACT SWITCH	
S619	EVQ21405R	TACT SWITCH	
S620	EVQ21405R	TACT SWITCH	
S621	EVQ21405R	TACT SWITCH	
S900	EVQ21405R	TACT SWITCH	
S901	EVQ21405R	TACT SWITCH	
S902	EVQ21405R	TACT SWITCH	
S903	EVQ21405R	TACT SWITCH	
S904	EVQ21405R	TACT SWITCH	
S905	EVQ21405R	TACT SWITCH	
S906	EVQ21405R	TACT SWITCH	
S907	EVQ21405R	TACT SWITCH	

Ref. No.	Part No.	Part Name & Description	Remarks
S908	EVQ21405R	TACT SWITCH	
S909	EVQ21405R	TACT SWITCH	
S910	EVQ21405R	TACT SWITCH	
S911	EVQ21405R	TACT SWITCH	
S912	EVQ21405R	TACT SWITCH	
S913	EVQ21405R	TACT SWITCH	
S914	EVQ21405R	TACT SWITCH	
S951	RSH1A018-3U	TACT SWITCH	
S952	RSH1A019-2U	TACT SWITCH	
S971	RSH1A018-3U	TACT SWITCH	
S972	RSH1A019-2U	TACT SWITCH	
S974	RSH1A019-2U	TACT SWITCH	
S975	RSH1A019-2U	TACT SWITCH	
TRANSFORMERS			
T502	RTP1H3C001	BACK UP TRANSFORMER	* 
T701	RTP1H3C001	BACK UP TRANSFORMER	** 
T501	RTPM1P3M023-V	TRANSFORMER	* 
T700	RTPM1P3M022-V	TRANSFORMER	** 
VARIABLE RESISTORS			
VR900	RRV16B24104G	VARIABLE RESISTOR	
VR930	RRVM06A1C24	VARIABLE RESISTOR	
WIRES			
W1	REE0854	WIRE	**
W1	REEX0060	WIRE	*
W1	REVM0102	WIRE	**
W1002	RWJ0102050KR-1	WIRE	
W2	REEX0060	WIRE	**
W2	REE0854	WIRE	*
W500	REXX0202-1	WIRE	
W500	REXX0235	WIRE	
W601	REXX0298	WIRE	
W605	RWJ1103130XQ	WIRE	
W700	REXX0202-1	WIRE	**
W920	REXM0027	WIRE	
W921	REXM0026	WIRE	
W922	REXM0028	WIRE	
W923	RWJ1112100RR	WIRE	
OSCILLATORS			
X102	RLFDFT22DD	OSCILLATOR	
X103	RSXC7M20S05T	OSCILLATOR	
X301	H0A327200073	OSCILLATOR	
X303	H2A100500006	OSCILLATOR	
X600	RSXZ4M19D01T	OSCILLATOR	
COMPONENT COMBINATION			
Z101	RLA2Z007-T	COIL	
Z102	G2BAE0000003	AM IF BLOCK	
Z501	ERZV10V511CS	ZNR	*
Z701	ERZV10V511CS	ZNR	**
Z940	GP1UM272RK	REMOTE SENSOR	
Z971	RGSD12A1445T	RADA RESISTOR	
FUSES			
F1	XBA1C40NBAL	FUSIBLE	* 
F1	XBA1C40NBAL	FUSIBLE	** 

20.4.1 Speaker Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
1	REVM0060-1	WIRE	
2	REVM0056-1	WIRE	
3	RMRM0014	WIRE CATCHER	
4	RKPM0070	WOOD CAB. (R) SC-HM910	
	RKPM0072	WOOD CAB. (R) SC-HM810	
	RKPM0071	WOOD CAB. (L) SC-HM910	
	RKPM0073	WOOD CAB. (L) SC-HM810	
5	RMQM0059	CUSHION	
6	RMQM0028-1B	CUSHION	
7	RJH9210	TERMINAL	
8	XTB4+20AFZ	SCREW	
9	EAS30PL309C6	SPEAKER SC-HM910	
	EAS25PL304BM	SPEAKER SC-HM810	
10	RGEM0011	SPK RING(SÓLO SC-HM810)	
11	RMQM0076	PORT SEAL	
12	EAS6PH322B6	SPEAKER SC-HM910	
	EAS6PH323B6	SPEAKER SC-HM810	

Ref. No.	Part No.	Part Name & Description	Remarks
13	XTB4+8JFZ	SCREW	
14	RYPM0085	FRONT PANEL (R)	
	RYPM0086	FRONT PANEL (L)	
15	REVM0090	WIRE	
16	XTB3+10G-A	SCREW	
17	EAS17PL302M	SPEAKER SC-HM910	
	EAS17PL16AM	SPEAKER SC-HM810	
18	RMTM0001	ACOUSTIC MATERIAL	
19	RMRM0011-2	BACK CAVITY	
20	XTB4+14G	SCREW	
21	RMGM0005	CATCH RUBBER	
22	RMGM0006	CATCH RUBBER	
23	RGK0985B-S	CAP ORNAMENT	
24	RKA0072-KJ	LEG RUBBER	
25	RYBM0034-1	NET FRAME (R)	
	RYBM0033-1	NET FRAME (L)	

20.4.2 Speaker Parts Location & Squematic Diagram

