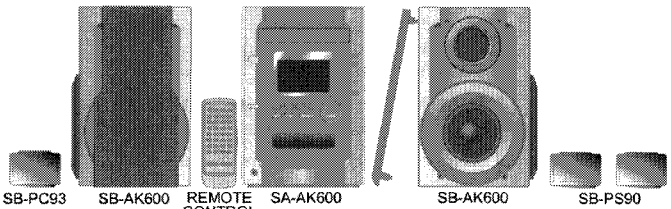
ORDER NO. MD0205110C3

Service Manual

CD Stereo System

COMPACT disc DIGITAL AUDIO



SA-AK600GC
SA-AK600GN

Colour
(S)... Silver Type

TAPE SECTION :
SG2 MECHANISM SERIES
CD SECTION :
RAE0152Z-3 TRAVERSE DECK SERIES

Specifications

n AMPLIFIER SECTION

Power output	
10% THD, both channels driven	
75 Hz	
Subwoofer	160 W
(Total effective impedance: 4Ω)	
1 kHz	
Front	35 W per ch (6Ω)
Center	70 W (8Ω)
Surround	40 W per ch (8Ω)
Total power in stereo mode	
	(Front and Subwoofer) 230 W
Total power in DOLBY DIGITAL mode	
	380 W
PMPO power output (for GC only)	3200 W
Input sensitivity	
AUX 1, AUX 2	250 mV
Input impedance	
AUX 1, AUX 2	13.3 kΩ
Digital input	
Optical	1
Coaxial	1

n FM TUNER SECTION

Frequency range	87.50 - 108.00 MHz (50 kHz steps)
Sensitivity	2.5 µV (IHF)
S/N 26 dB	2.2 µV
Antenna terminals	75 Ω (unbalanced)

n AM TUNER SECTION

Frequency range	522 - 1629 kHz (9 kHz steps)
	520 - 1630 kHz (10 kHz steps)
Sensitivity	
S/N 20 dB (at 999 kHz)	560 µV/m

n CASSETTE DECK SECTION

Track system	4 track, 2 channel
Heads	
Record/playback	Solid permalloy head
Erasure	Double gap ferrite head
Motor	DC servo motor
Recording system	AC bias 100 kHz
Erasing system	AC erase 100 kHz
Tape speed	4.8 cm/s (1 7/8 ips)
Overall frequency response (+3 dB, -6 dB at DECK OUT)	
NORMAL (TYPE I)	35 Hz - 14 kHz
S/N ratio	50 dB (A_WTD)
Wow and flutter	0.18 % (WRMS)
Fast forward and rewind time	Approx. 120 seconds with C-60 cassette tape

n DISC SECTION

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam source/wavelength	Semiconductor laser/780 nm
Number of channels	Stereo
Frequency response	20 Hz - 20 kHz (+1, -2 dB)
Wow and flutter	Below measurable limit

Panasonic

Digital filter	8 fs
D/A converter	MASH (1 bit DAC)
n GENERAL	
Power supply	
For GC only	AC110 V/ 127V/ 220-230 V/ 240 V, 50/ 60Hz
For GN only	AC 230-240 V, 50Hz
Power consumption	170 W
Dimensions (W x H x D)	215.4 x 315 x 350 mm
Mass	Approx 7.1 kg
Power Consumption in standby mode	
For GC only	0.85 W
For GN only)	0.49 W
n SYSTEM	

SC-AK600(GC)	Music center: SA-AK600(GC)
	Front speaker: SB-AK600(GC)
	Centre speaker: SB-PC93(GC)
	Surround speaker: SB-PS90(GC)
SC-AK600(GN)	Music center: SA-AK600(GN)
	Front speaker: SB-AK600(GC)
	Centre speaker: SB-PC93(GC)
	Surround speaker: SB-PS90(GC)

Notes:

1. Specifications are subject to change without notice. Mass and dimensions are aproximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

⚠ 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.

CONTENTS

1 Before Use

Be sure to disconnect the mains cord before adjusting the voltage selector.

Use a minus(-) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used. (If the power supply in your area is 117V or 120V, set to the "127V" position.)

Note that this unit will be seriously damaged if this setting is not made correctly. (There is no voltage selector for some countries, the correct voltage is already set.)

2 Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C571-C574 and C581 through a 10 Ω, 5W resistor to ground.

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.

After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at AC 240 V, 50 Hz in NO SIGNAL mode should be ~800mA.

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.

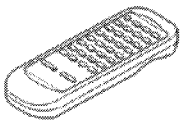
If this occurs, follow the procedure outlines below:

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:

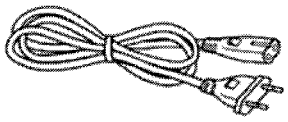
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

4 Accessories

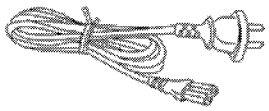


Remote Control
Transmitter

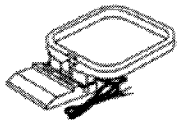
FM indoor antenna



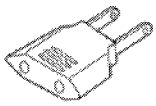
AC mains lead (for GC only)



AC mains lead (For GN only)



AM Loop antenna



Power plug adaptor (for GC only)

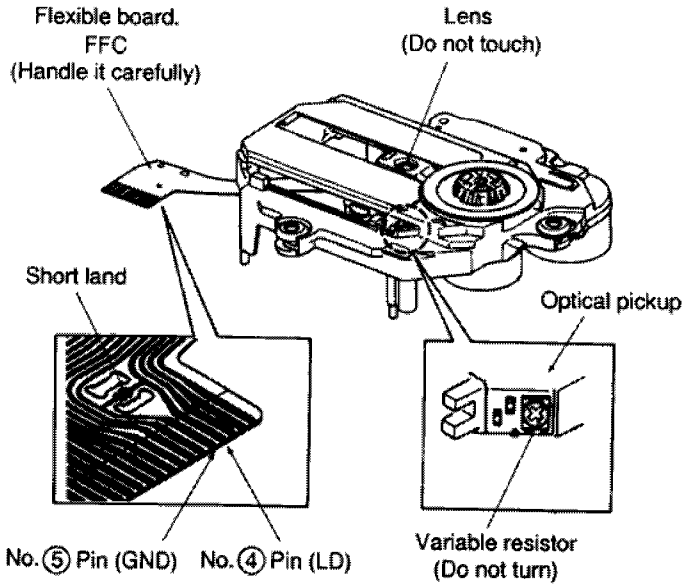
5 Handling Precautions For Traverse Deck

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 finishthe 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

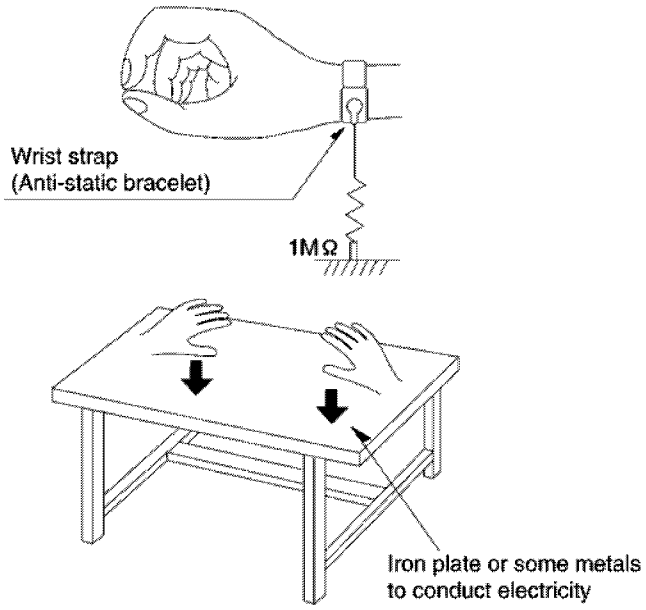
Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

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 laer diode against electroststics breakdown. Be sure to remove the solder from the short point before making connections.



6 Precaution of Laser Diode

Caution :

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

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

ACHTUNG :

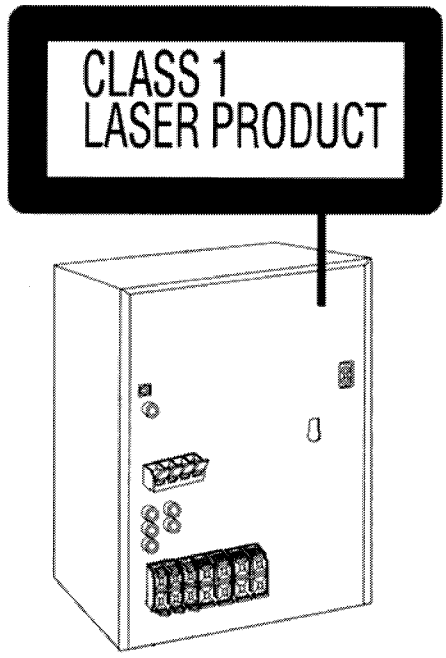
Dieses Produkt enthält eine Laserdiode. Im eingeschalteten Zustand wird unsichtbare Laserstrahlung von der Lasereinheit abgestrahlt.
Wellenlänge : 780nm
Maximale Strahlungsleistung der Lasereinheit :100 µW/VDE
Die Strahlung an der Lasereinheit ist ungefährlich, wenn folgende Punkte beachtet werden:

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

ADVARSEL: I dette a apparat anvendes laser.

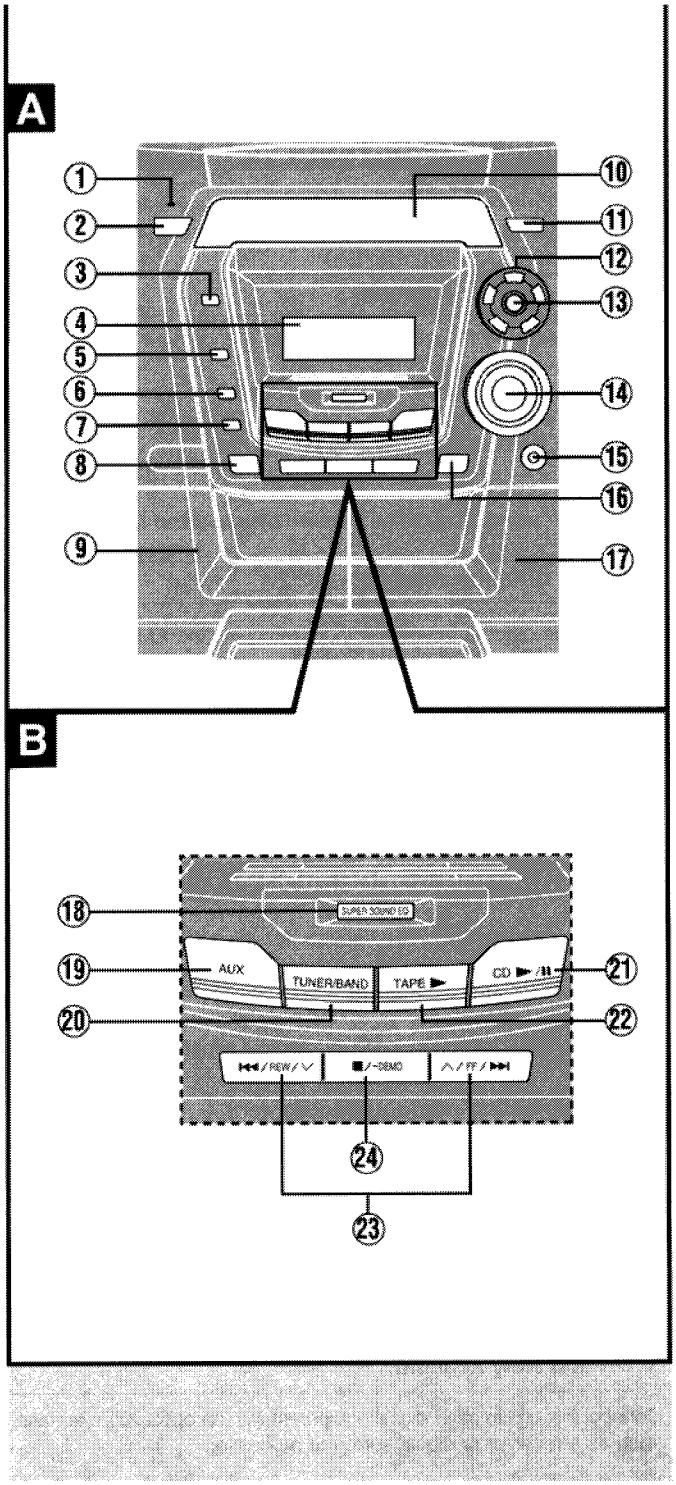
CAUTION! THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

n Use of Caution Labels



DANGER	INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTÖNTÄ LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHETSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN.

7 Operation Procedures



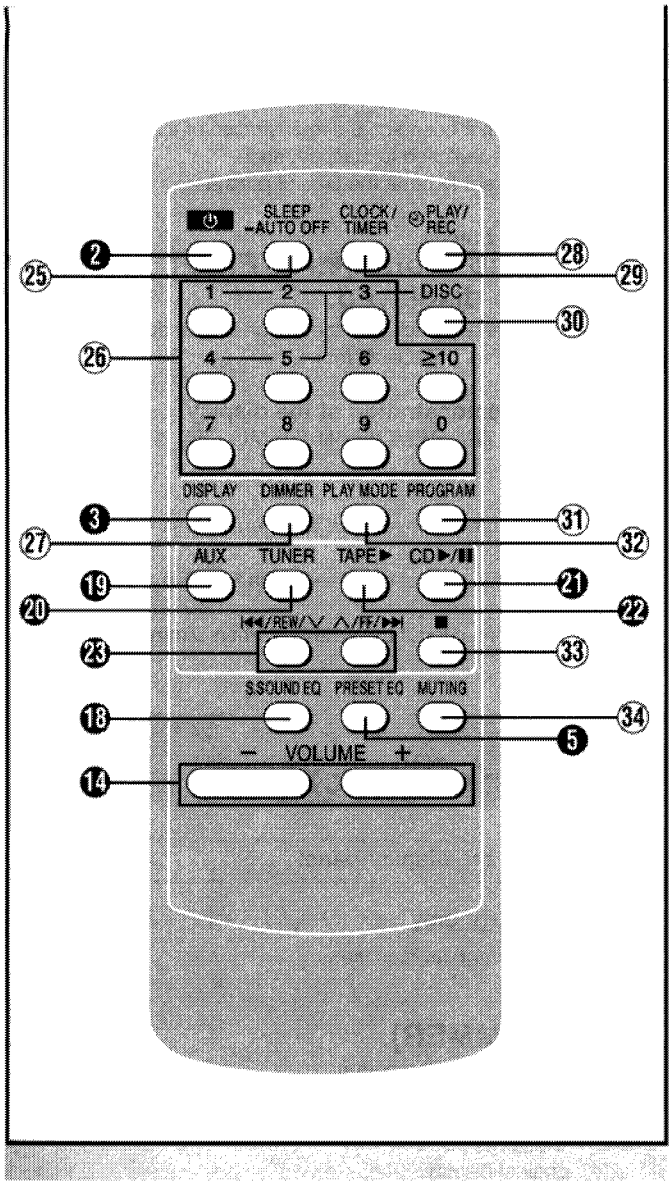
Front panel controls

A Main unit

No.	Name
①	**AC supply indicator (AC IN)** This indicator lights when the unit is connected to the AC mains supply.
②	**Standby/on switch (⏻/I)** Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
③	**Display button (DISPLAY)**
④	**Display**
⑤	**Preset EQ select button (PRESET EQ)**
⑥	**Record button (● REC)**
⑦	**Deck select button (DECK 1/2)**
⑧	**Deck 1 open button (⏏ DECK 1 OPEN)**
⑨	**Deck 1 cassette holder**
⑩	**Disc tray**
⑪	**Remote control signal sensor (SENSOR)**
⑫	**Disc direct play buttons (1 ~ 5)**
⑬	**CD tray open/close button (⏏)**
⑭	**Volume control (VOL DOWN, UP)**
⑮	**Headphone jack (PHONES)**
⑯	**Deck 2 open button (⏏ DECK 2 OPEN)**
⑰	**Deck 2 cassette holder**

B Center console

⑱	**Super sound EQ button (SUPER SOUND EQ)**
⑲	**AUX button (AUX)**
⑳	**Tuner/band select button (TUNER/BAND)**
㉑	**CD play/pause button (CD ▶/II)**
㉒	**Tape play button (TAPE ▶)**
㉓	**CD skip/search, tape fast-forward/rewind, tune/preset channel select, time adjust buttons (I◀◀/REW/∨, ∧/FF/▶▶I)**
㉔	**Stop/program clear and demonstration button (■/–DEMO)**



Front panel controls

Remote control

Buttons such as ❷ function in exactly the same way as the buttons on the main unit.

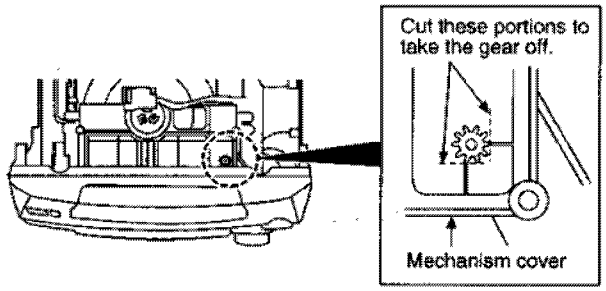
No.	Name
㉕	Sleep timer/auto off button (SLEEP, –AUTO OFF)
㉖	Numeric buttons (≥10, 1–9, 0)
㉗	Dimmer button (DIMMER)
㉘	Play timer/record timer button (⏲PLAY/REC)
㉙	Clock/timer button (CLOCK/TIMER)
㉚	Disc button (DISC)
㉛	Program button (PROGRAM)
㉜	Play mode select button (PLAY MODE)
㉝	Stop/program clear button (■)
㉞	Muting button (MUTING)

8 Disassembly and Main Component Replacement Procedures

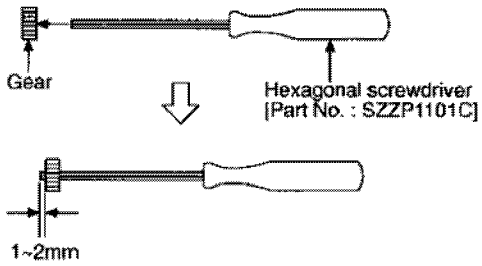
Gear for servicing (jig) information

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 as shown below.



2. Insert the hexagonal screwdriver (2mm) into the gear, and then project the tip of screwdriver for 1~2mm in length.



"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.**

Contents

- **Disassembly Procedure for each major P.C.B.**
  1. Checking of the Main, Panel, Sub-Transformer, Deck P.C.B.
  2. Checking of Power P.C.B.
- **Main Component Replacement Procedures**
  1. Replacement of the Traverse Deck.
  2. Replacement of the Power Amplifier IC.
- **Disassembly and assembly of the Traverse Unit**
- **Disassembly and assembly of the Disc Tray**

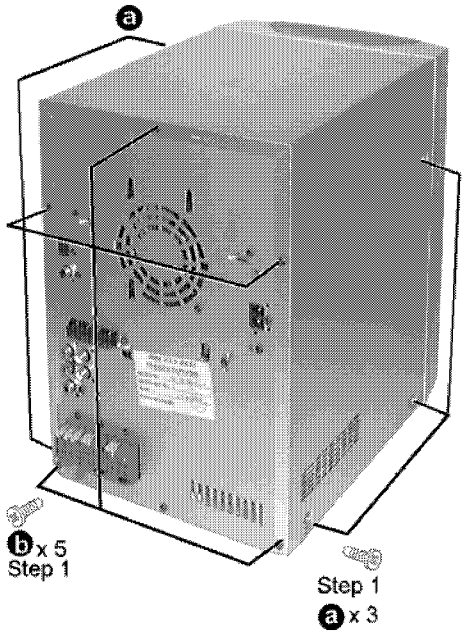
Warning:

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

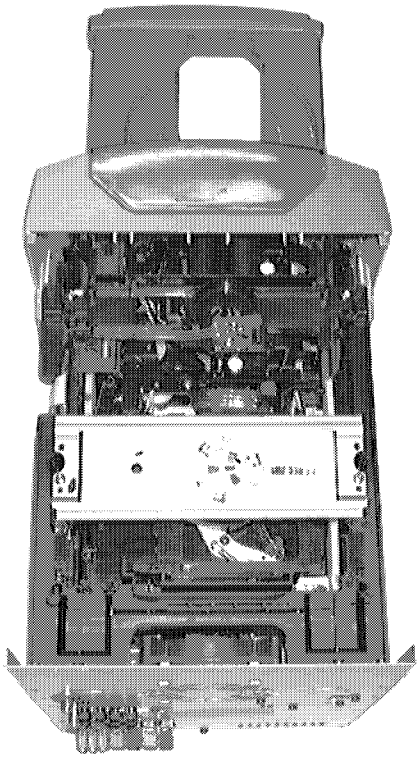
8.1. Disassembly Procedure for each major P.C.B.

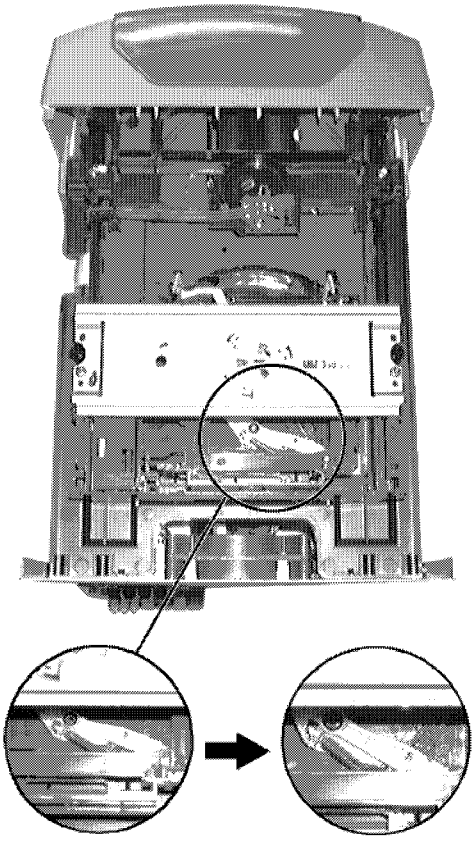
8.1.1. Checking of the Main, Panel, Deck , Transformer and Power P.C.B.

Step 1 Remove 3 screws each side and 5 screws at rear panel.

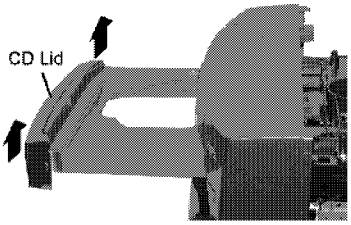


Step 2 Remove the Top Cabinet.

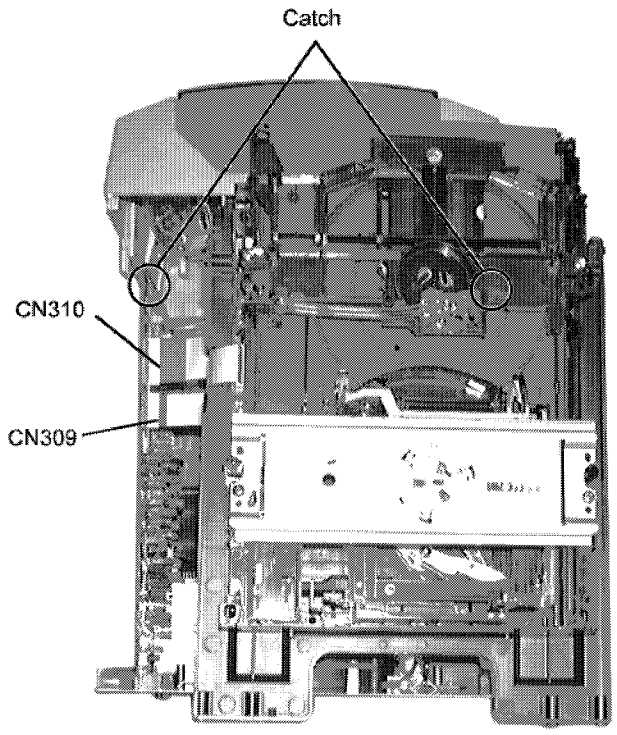


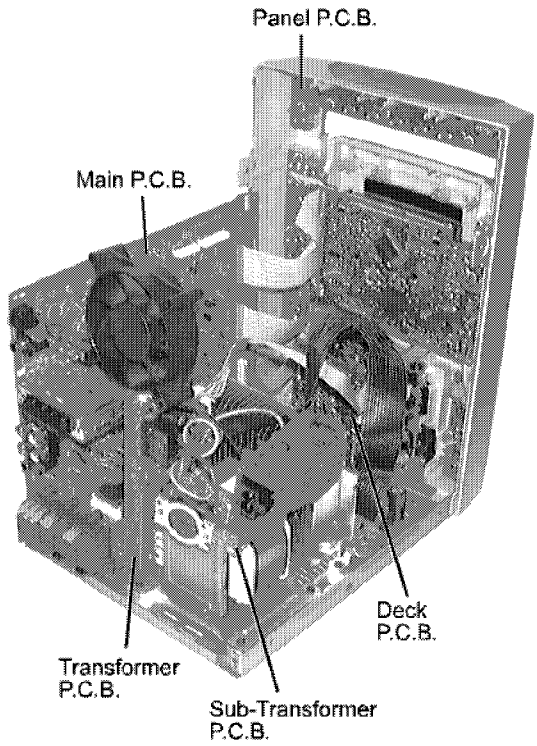


Step 3 Push the lever in the direction of the arrow.

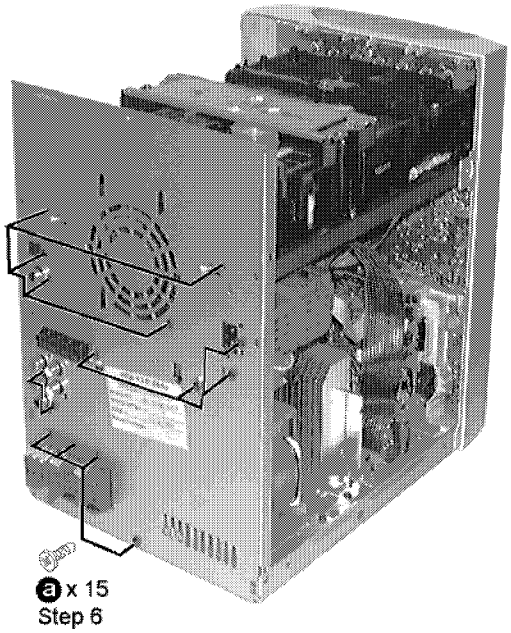


Step 4 Pull out the CD tray as shown and remove the CD lid. Push back the CD tray after the CD lid has been removed.



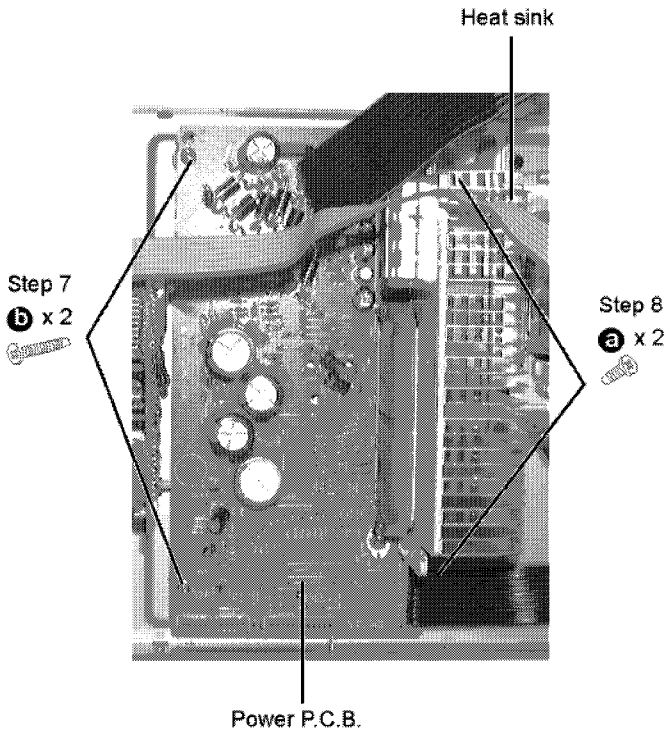


Step 5 Release the 2 cathches, disconnect CN309 and CN310 and remove the CD changer base together with the CD changer.

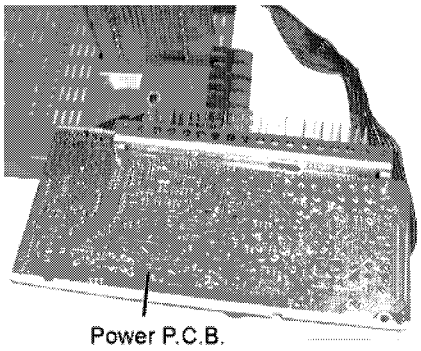


Step 6 Remove 15 screws.

- **Checking for Main, Panel , Sub-Transformer and Deck P.C.B**



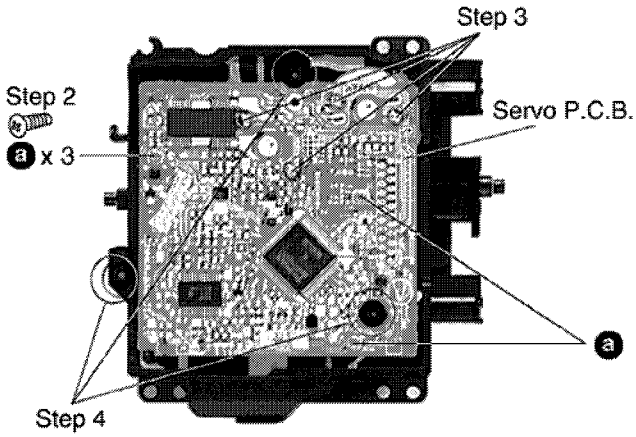
- **Checking for Power P.C.B.**

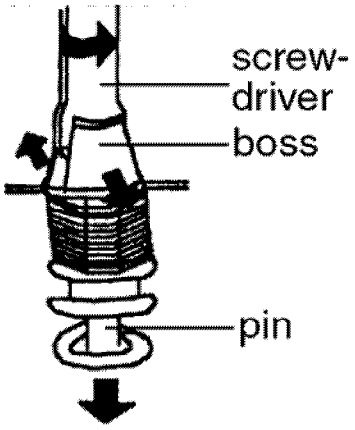


8.2. Main Component Replacement Procedures

8.2.1. Replacement of the Traverse Deck

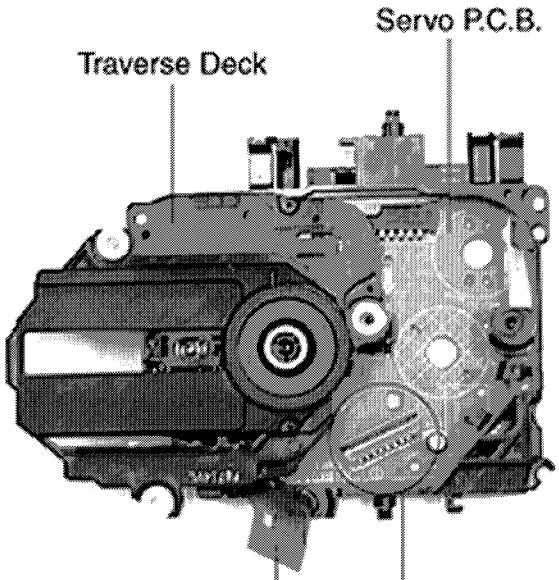
Step 1 Follow the procedures in 'Disassembly of the Traverse Unit' (**Step 1 - Step 4**).

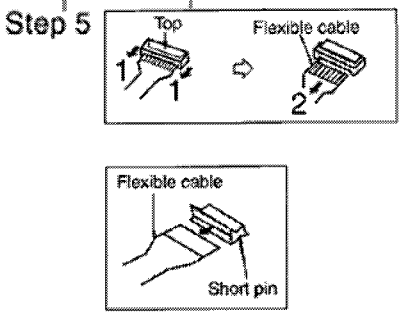




Step 3 Desolder the 4 legs of the 2 motors and pull out the Servo P.C.B.

Step 4 Widen the 3 bosses with a flat screwdriver and pull out the 3 pins. Then remove the Traverse Deck.





Step 5 Remove the flexible cable CN701.

- Removal of the flexible cable. Push the top of the connector in the direction of the arrow 1, and then pull out the flexible cable in the direction of the arrow 2.

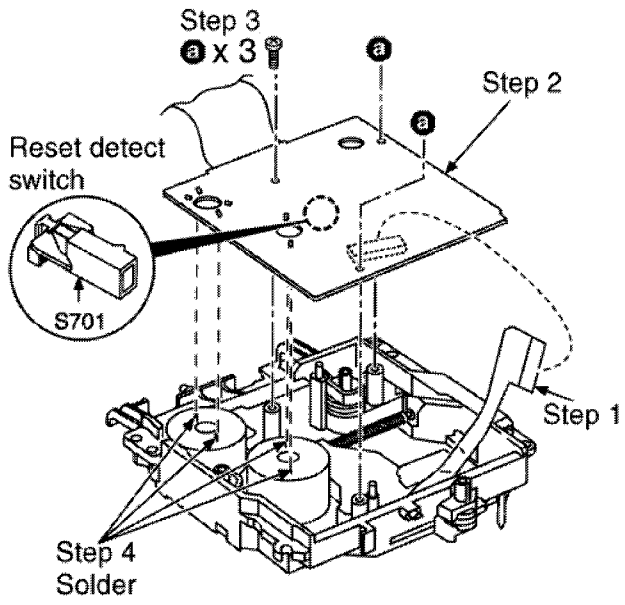
Note:

Insert a short pin into the flexible cable for traverse unit.

- **Installation of the CD servo P.C.B. after replacement**

Step 1 Connect the FFC board.

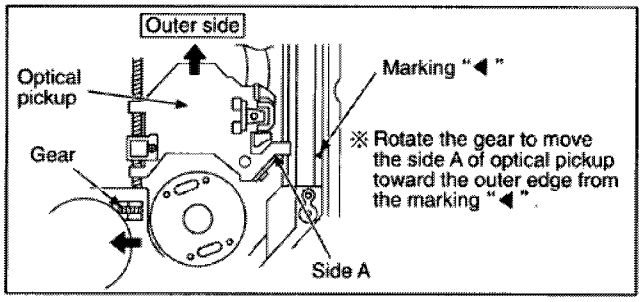
Step 2 Install the CD servo P.C.B. in the traverse deck assembly.



Note:

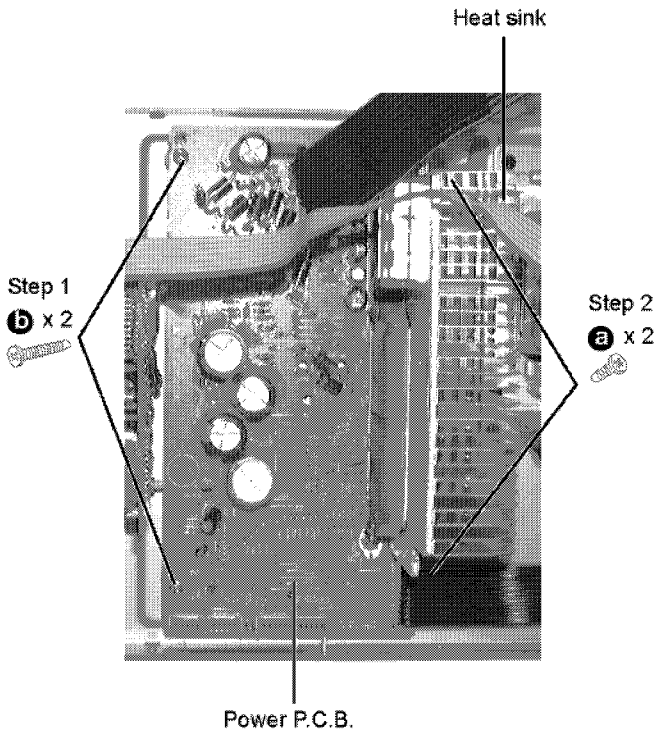
Before installing the CD servo P.C.B., move the optical pickup towards the outer edge from the marking (black triangle).

[Otherwise, the reset detect switch (S701) mounted on the CD servo P.C.B. may be damaged.]

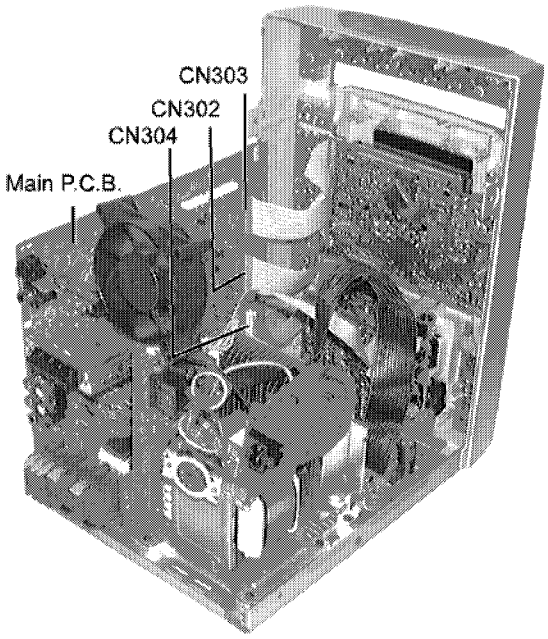


8.2.2. Replacement of the Power Amplifier IC

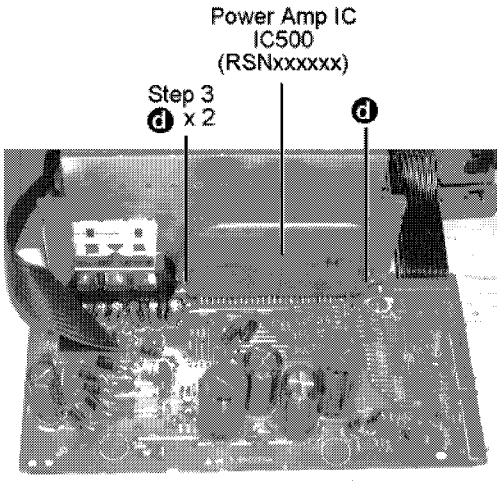
Step 1 Follow the procedures in 'Checking Procedure for each major P.C.B.' (**Step 1 - Step 4**).



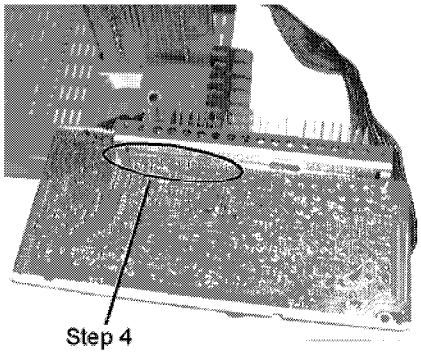
Step 2 Remove the wires at CN302, CN303 and CN304 and pull out the Main PCB.



Step 3 Remove the 2 screws fixed to the Power Amplifier IC.



Step 4 Unsolder the terminals of Power Amp IC and replace the respective component.

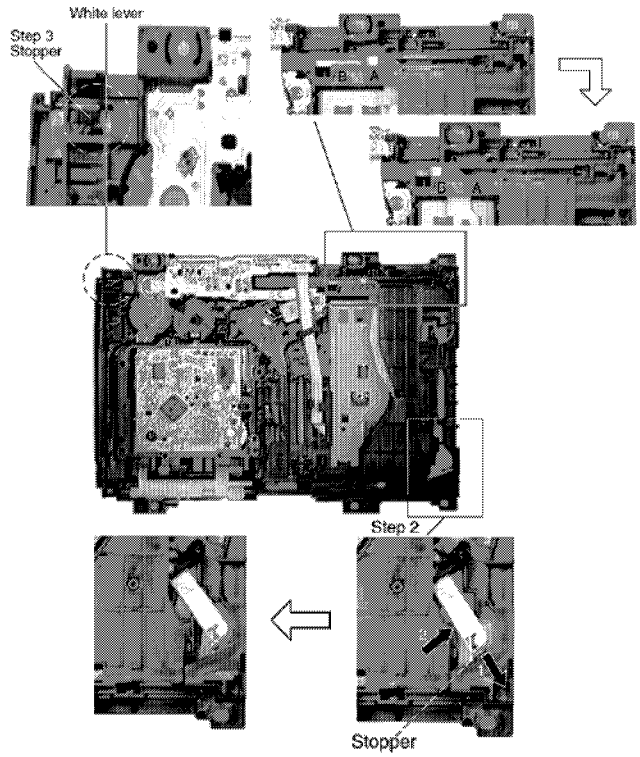


8.3. Disassembly and assembly of the Traverse Unit

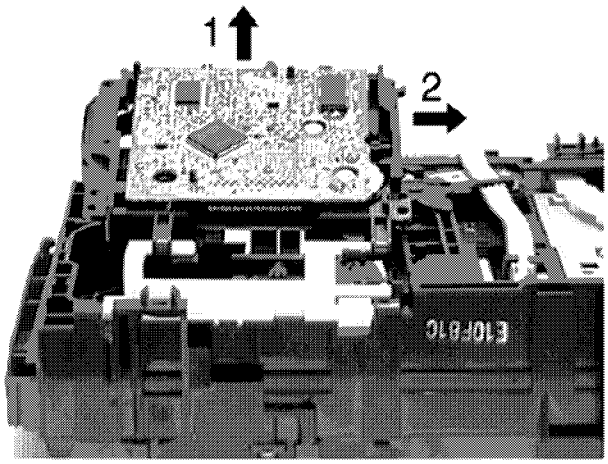
Step 1 Push the lever from position A to B.

Step 2 Pull the stopper (black) in the direction of arrow 1 and push the lever in the direction of arrow 2.

Step 3 Push the stopper (black) down until the white lever eject out.



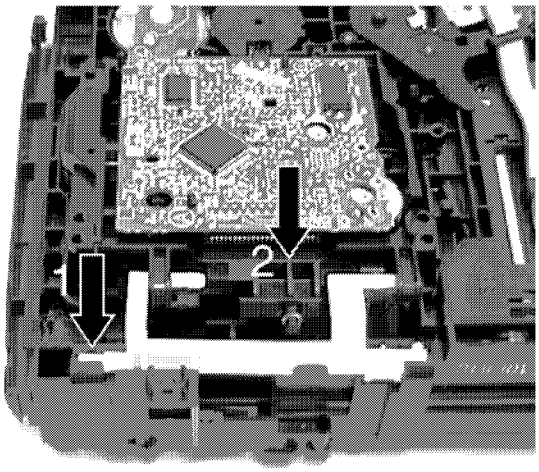
Step 4 Lift up the traverse unit and slide out the unit as shown.



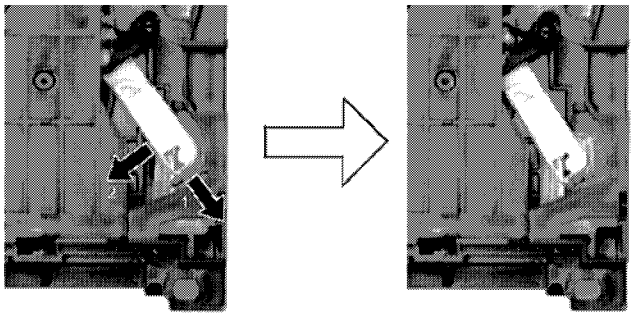
- **Replacement of Traverse Unit**

Step 1 Place the traverse unit as shown.

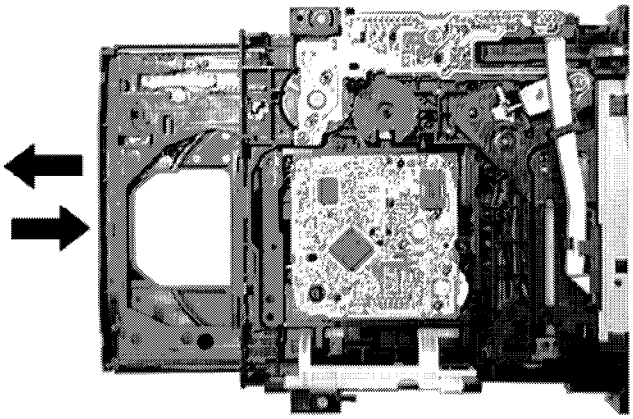
Step 2 Press in the lever shaft in the direction of arrow 1 as shown and push the traverse unit into the position in the direction of arrow 2.



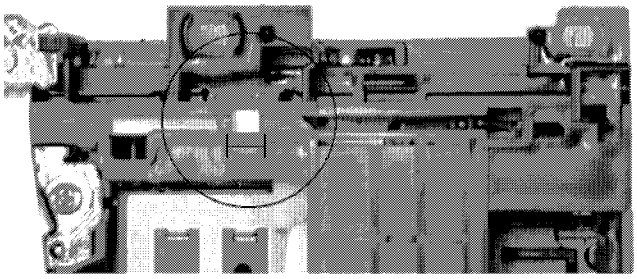
Step 3 Pull the stopper in the direction of arrow 1 and release the lever in the direction of arrow 2 as shown.



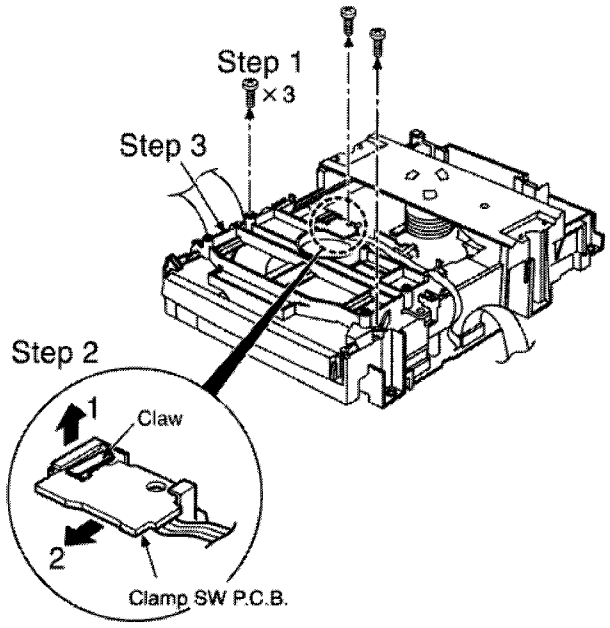
Step 4 Pull out the tray half way and push it back fully.



Step 5 Push the lever to the initial position indicated '|---|'.

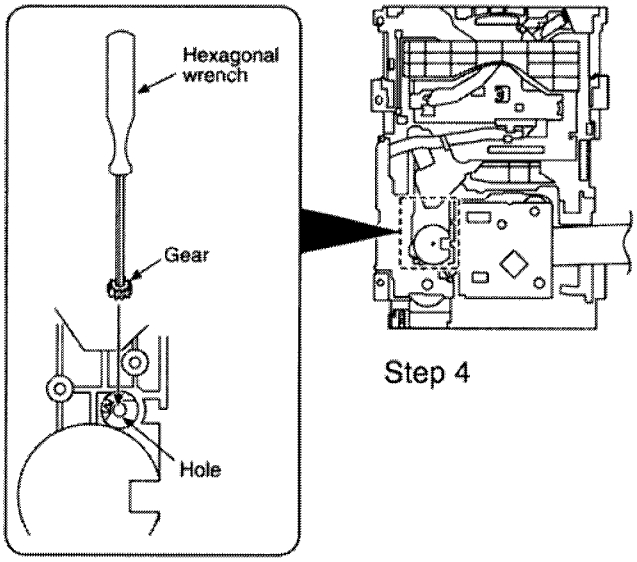


8.4. Disassembly and assembly of the Disc Tray

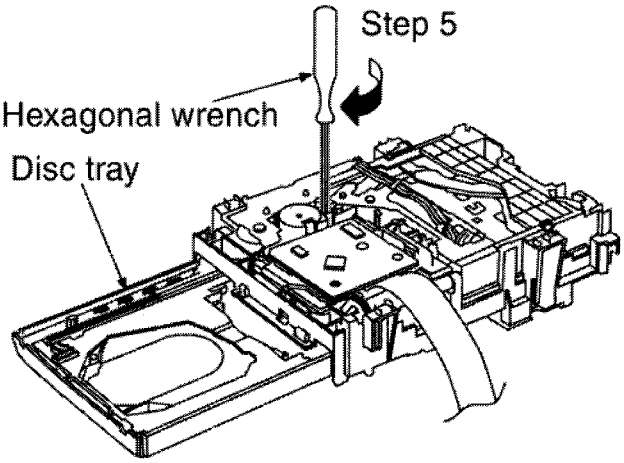


Step 2 With lifting the claw in the direction of arrow 1, draw the clamp SW P.C.B. in the direction of arrow 2.

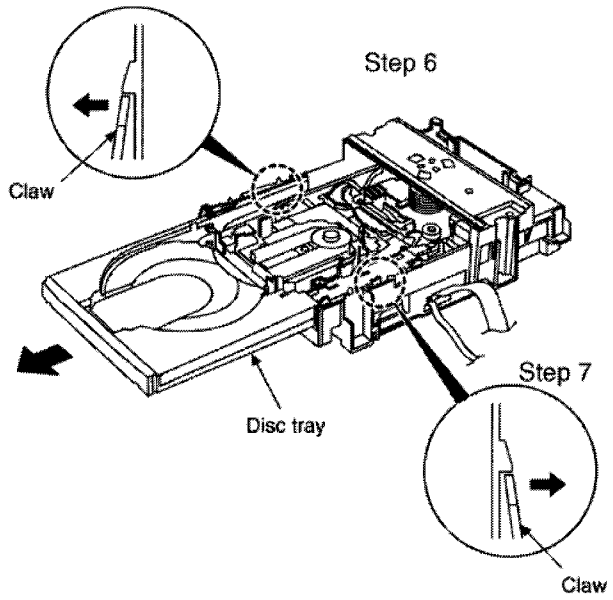
Step 3 Remove the mechanism cover.



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

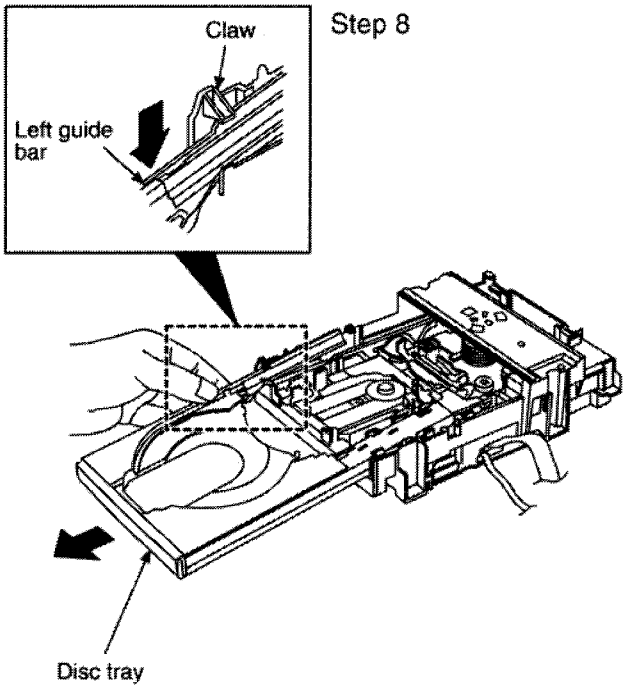


Step 5 Rotate the hexagonal wrench in the direction of arrow (clockwise), and then open the disc tray fully.



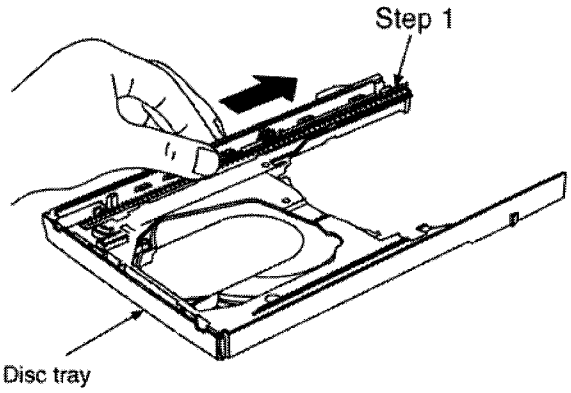
Step 6 Upset the CD changer unit again.

Step 7 Release both the claws, and then draw the disc tray.

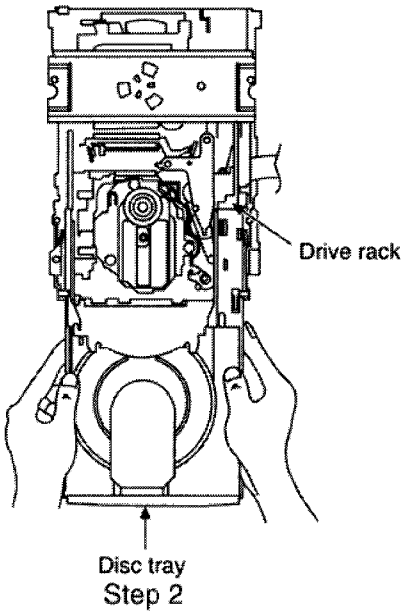


Step 8 With forcing the left guide bar manually because the left guide bar interferes with claw, draw the disc tray.

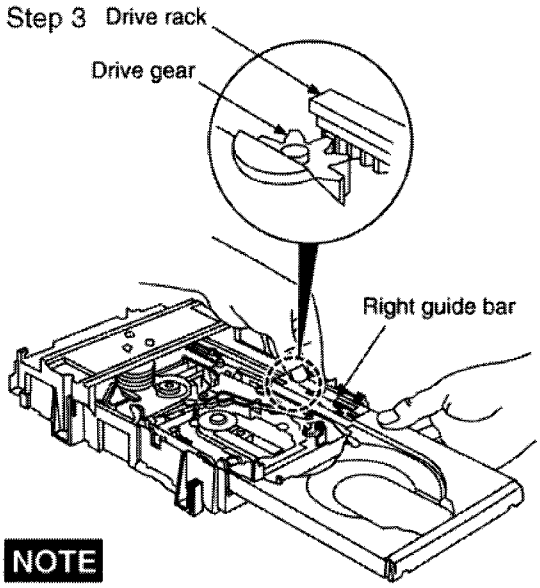
- **Installation of the disc tray after replacement**



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



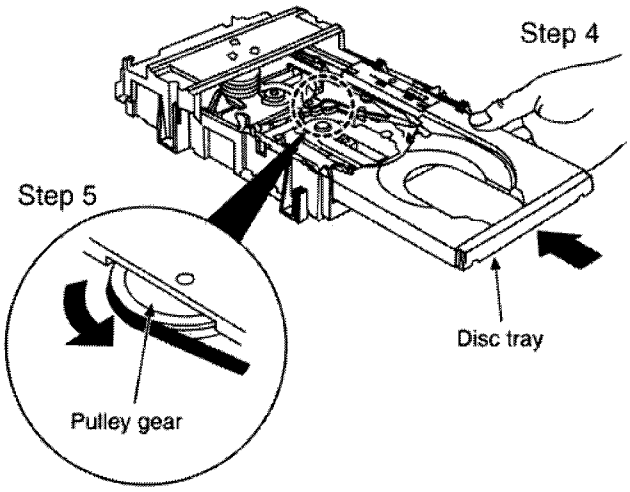
Step 2 Holding the drive rack, not to move, install the disc tray.



NOTE

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

Step 3 Align the drive rack with the drive gear.



Step 4 Holding the disc tray manually, rotate the pulley gear in the direction of arrow.

Step 5 Rotate the gear 5 or 6 times manually, and then push the disc tray.

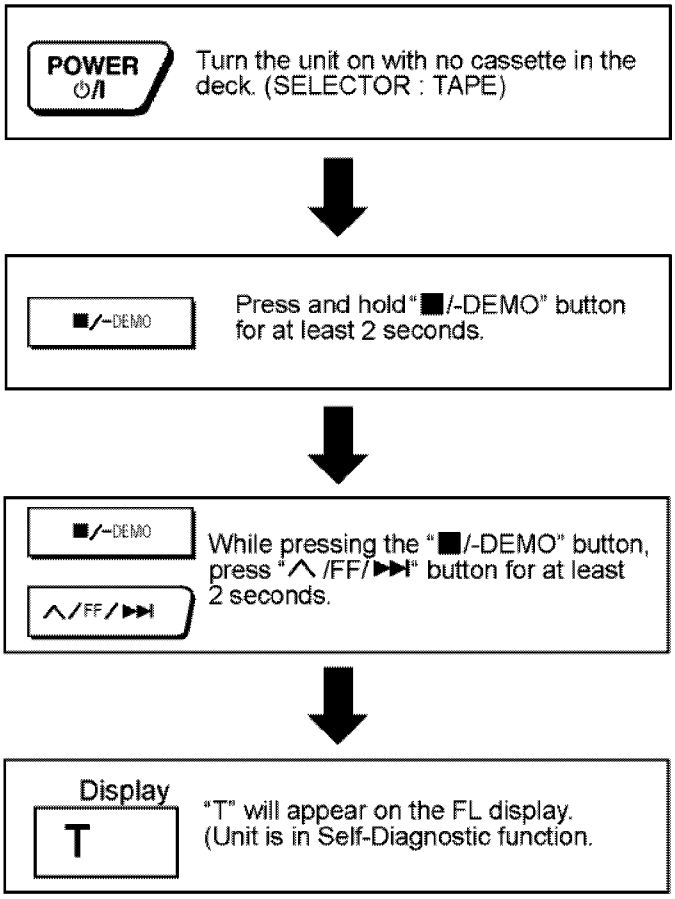
9 Self-Diagnostic Function

9.1. 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.

9.2. How to enter the Self-Diagnostic Function



9.3. 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 "PLAY/TUNE/TIME ADJ UP" (After TPS function, tape will stop automatically)
8. Press "REC/STOP" (Tape will not move)
9. Press "STOP/TUNE MODE" to indicate Error code.
   - If several problem exist, error code will change each time when "n /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)

9.4. 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 "n/TUNE MODE" to indicate Error Code.
   - If several problem exist, error code will change each time when "n/TUNE MODE" is pressed. (e.g. F15 → F26 → F16 ....etc).

9.5. 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".

9.6. How to get out from Self-Diagnostic function

1. Press "Power" button OFF.

9.7. Power Amplifier Failure (F61)

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

10 Description of Error Code

10.1. 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 (S974, S975).
3	HALF SW detection error	H03	Playback cannot perform. Faulty contact or short-circuit of HALF siwtch (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 (IC101).

10.2. 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 (S4) NG (Check & Replace)
3	Does not startup when [PLAY] button is pressed	F17	BOTTOM switch (S5) 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 (S3) (Check & Replace)

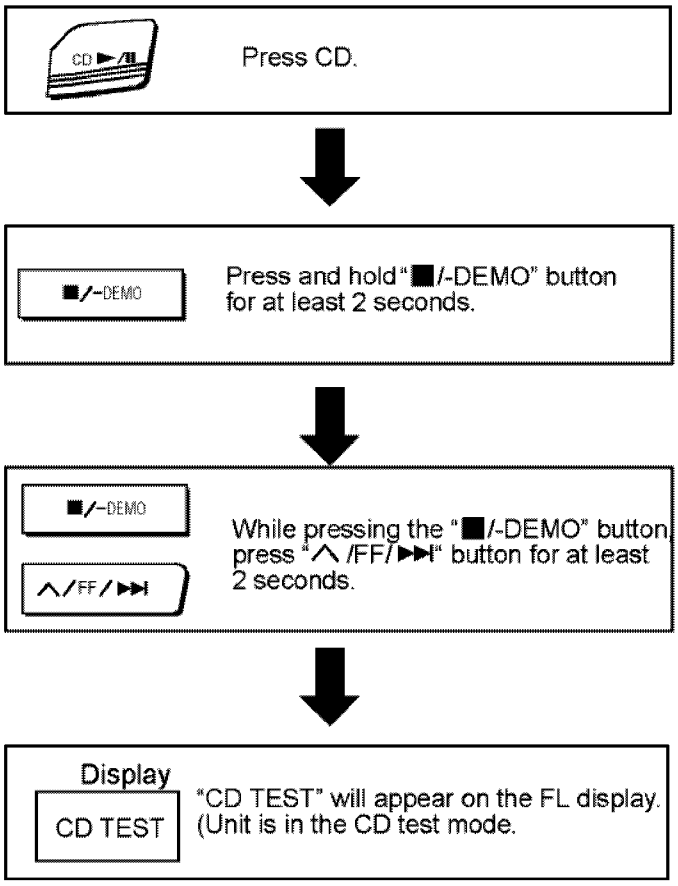
10.3. Power Supply related error detection

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)

11 CD Test Mode Function

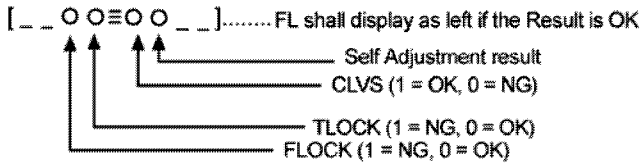
This CD test mode is provided to check CD unit without connecting to changer loading mechanism. This mode shall operate CD PLAY with CD unit being connected only and CD Automatic Alignment result is shown on FL display.

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

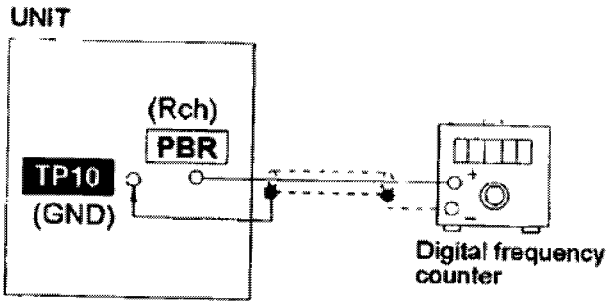
12.1. Cassette Deck Section

- Measurement Condition
  - Make sure head, capstan and press roller are clean.
  - Judgeable room temperature 20 ± 5 °C (68 ± 9°F)
- Measuring instrument
  - EVM (Electronic Volmeter)
  - Digital quency counter
- Test Tape
  - Tape speed gain adjustment (3 kHz, -10 dB); QZZCWAT

12.1.1. Tape Speed Adjustment

1. Insert the test tape (QZZCWAT) to DECK and playback (FWD side) the middle portion of it.
2. Adjust Motor VR for the output value shown below.

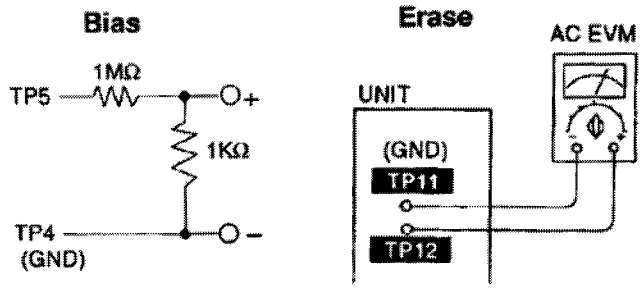
Adjustment target: 2940 ~ 3060 Hz (NORMAL speed)



12.1.2. Bias and Erase Voltage Check

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

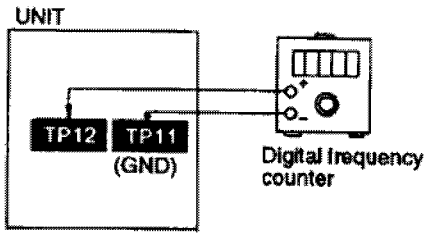
Bias voltage	16 ± 4mV (Normal)
Erase voltage	47mV ~ 80mV (Normal)



12.1.3. Bias Frequency check

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

Standard Value: 86 ±8 kHz



12.2. Alignment Points

Cassette Deck section

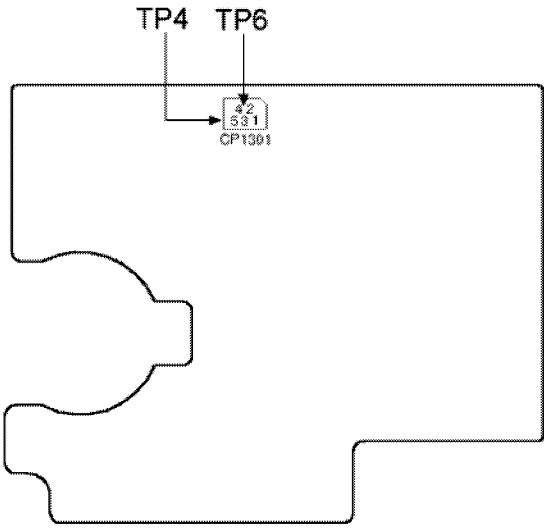


Fig. 8

Tuner section

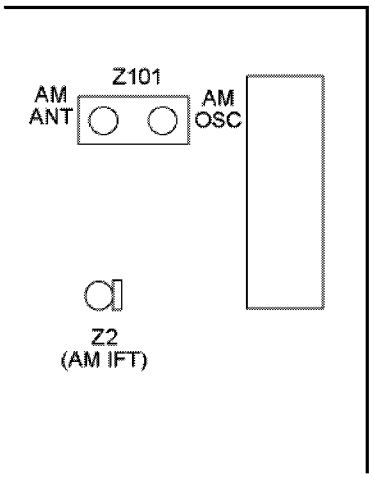


Fig. 9

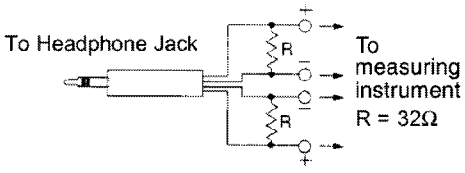
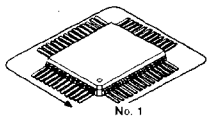


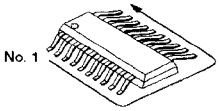
Fig. 10

13 Illustration of IC's, Transistors and Diodes

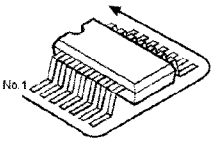
C1BB00000654 (42P)
C0FBZK000005 (44P)
C2BBGF000348 (100P)
C2HBZH000001 (100P)
MN662790RSC (80P)



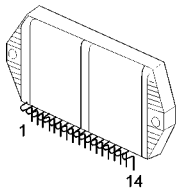
C1BB00000574
M62444FPE1
AN8885SBE1
C0ABBB000067



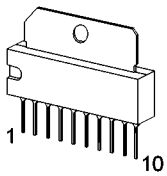
TC74HCU04AF



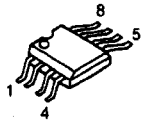
RSN311W64B-P



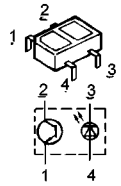
C0GAM0000005



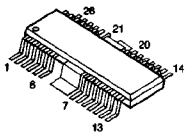
C0AABB000117
BR93LC46FE2 (8P)



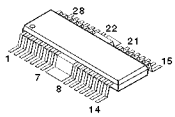
CNB13030R2AU



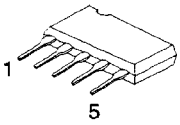
AN8739SBTE2



AN7326K



C1AA00000612



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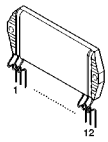

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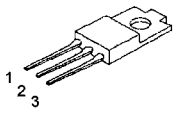

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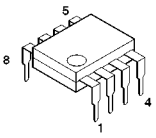
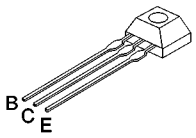


KRA102MTA
KRC102MTA



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KTC3199GRTA
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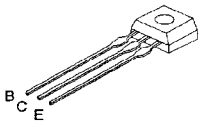
B1AAGC000007



B1AAKD000009
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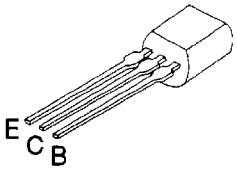
KTA1504GRTA
KTC3205YTA
2SD09650RA
2SB621ARSTA
2SD0592ARA



KRA102STA
KRC101STA
KRC102STA
KRC103STA
KTC3875GRTA
KTD1304TA
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KRC111STA
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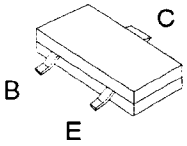

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B0BC5R600003□
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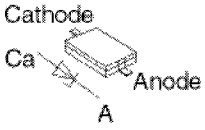
MAZ80680HL



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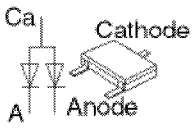

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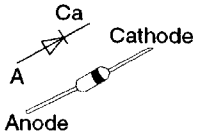

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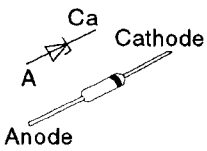

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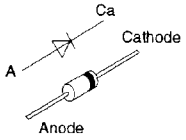

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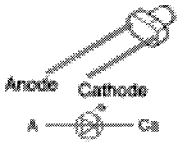

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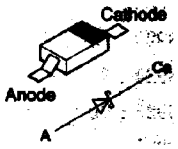

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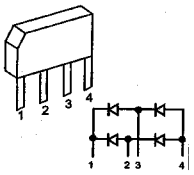

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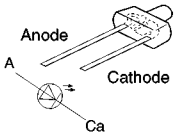

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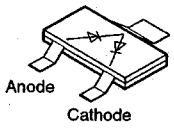

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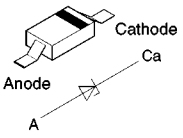

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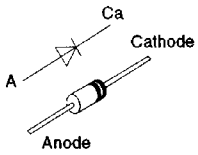


14 Terminal Function of IC's

14.1. IC701 (AN8885SBE1) Servo Amplifier

Pin No.	Mark	I/O	Function
1	PDE	I	Tracking signal input 1
2	PDF	I	Tracking signal input 2
3	VCC	I	Power supply
4	PDA	I	Focus signal input terminal 1
5	PDB	I	Focus signal input terminal 2
6	LPD	I	APC amp input
7	LD	O	APC amp output
8	RF	O	RFsumming output
9	RFIN	I	Detector's input
10	CSBRT	I	Capacitor for OFTR connection
11	CEA	I	Capacitor for HPF amp connection
12	BDO	O	BDO output ("H" : drop out)
13	LDON	I	APC control
14	GND	—	Ground
15	/RFDET	O	NRFDET output ("L" : detection)
16	PDOWN	O	Power-down input
17	OFTR	O	OFTR output
18	NC	O	N.C.
19	ENV	O	3T-ENV output
20	NC	I	N.C.
21	NC	I	N.C.
22	TEN	I	TE amp input
23	TEOUT	O	TE amp output
24	FEOUT	O	FE amp output
25	FEN	I	FE amp input
26	VREF	O	Reference voltage output
27	TBAL	I	Tracking balance control
28	FBAL	I	Focus balance control

14.2. IC702 (MN662790RSC) Servo processor/ Digital signal processor/ Digital filter/ D/A converter

Pin No.	Mark	I/O	Function
1	BCLK	O	N.C.
2	LRCK	O	N.C.
3	SRDATA	O	N.C.
4	DVDD1	I	Power supply input (for digital circuit)
5	DVSS1	I	GND (for digital circuit)
6	TX	O	Digital audio interface signal output (Latches data at first transition)
7	MCLK	I	Microprocessor command clock signal input
8	MDATA	I	Microprocessor command data signal input
9	MLD	I	Microprocessor command load signal input
10	SENSE	O	Sense signal output (OFT, FESL,MAGEND, NAJEND,POSAD,SFG) (Not used, open)
11	/FLOCK	O	Focus servo feeding signal output ("L" : Feed)
12	/TLOCK	O	Tracking servo feeding signal output ("L" : Feed)
13	BLKCK	O	Sub-code block clock signal output (BLKCKf = 75Hz during normal playback)
14	SQCK	I	External clock signal input for sub-code Q resistor
15	SUBQ	O	Sub-code Q code output
16	DMUTE	I	Muting input ("H" : mute)
17	STAT	O	Status signal output (CRC,CUE,CLVS, TTSTVP,FCLV,SQCK)
18	/RST	I	Reset signal input
19	SMCK	O	1/2-diveded clock signal of crystal osscillating at MSEL = "H" (fSMCK = 8.4672 MHz) 1/4-divided clock signal of crystal oscillating at MSEL = "L" (fSMCK = 4.2336MHz)
20	CSEL	I	Frequency Selection Terminal H = 33.8688 MHz ; L = 16.9344 MHz
21	TRV	O	N.C
22	TVD	O	Traverse drive output
23	PC	O	Spindle motor ON output ("L" : ON)
24	ECM	O	Spindle motor drive signal output(forced mode output)
25	ECS	O	Spindle motor drive signal output (servo error signal output)
26	KICK	O	N.C.
27	TRD	O	Tracking drive output
28	FOD	O	Focus drive output
29	VREF	I	D/A (drive) output (TVD, ECS, TRD, FOD, FBAL, TBAL) Reference voltage input
30	FBAL	O	Focus balance adjustment output
31	TBAL	O	Tracking 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
35	VDET	I	Vibration detection signal input ("H" :detection)
36	OFT	I	Off-track signal input ("H" : off track)
37	TRCRS	I	Track cross signal input
38	/RFDET	I	RF detection signal input ("L" : detection)
39	BDO	I	Dropout signal input ("H" : Dropout)
40	LDON	O	Laser on signal output ("H" : ON)
41	PLLF2	I/O	N.C.
42	DSLF2	O	Tracking Offset alignment output/DSL Balance Output (DA Output)
43	WVEL	O	N.C.
44	ARF	I	RF signal input
45	IREF	I	Reference current input
46	DRF	I	DSL bias terminal (Not used, open)
47	DSLF	I/O	DSL loop filter terminal
48	PLLF	I/O	PLL loop filter terminal
49	VCOF	I/O	VCO loop filter terminal
50	AVDD2	I	Power supply input (for analog circuit)
51	AVSS2	I	GND (for analog circuit)
52	EFM	-	EFM signal output

Pin No.	Mark	I/O	Function
53	PCK	-	PLL extraction clock output (fPCK = 4.321 MHz during normal playback)
54	VCOF2	I/O	VCO Loop filter for 33.8688 MHz conversation terminal for 16.9344 MHz crystal mode, must use other circuit
55	SUBC	O	Sub-code serial data output
56	SBCK	I	Clock input for sub-code serial data
57	VSS	I	GND
58	X1 IN	I	Crystal oscillating circuit input (f = 16.9344MHz)
59	X2 OUT	O	Crystal oscillating circuit input (f = 16.9344 MHz)
60	VDD	I	Power supply input (for oscillating circuit)
61	BYTCK	-	Byte clock output
62	/CLDCK	-	Sub-code frame clock signal output (fCLDCK = 7.35 kHz during normal playback)
63	FCLK	-	Crystal frame clock signal output (fCLK = 7.35 kHz, double = 14.7 kHz)
64	IPFLAG	-	Interpolation flag output ("H" : Interpolation)
65	FLAG	-	Flag output
66	CLVS	-	Spindle servo phase synchronizing signal output ("H" : CLV, "L" : rough servo)
67	CRC	-	Sub-code CRC checked output ("H' :OK, "L" :NG)
68	DEMPH	-	De-emphassis ON signal output ("H" :ON)
69	RESY	-	Frame re-synchronizing signal output
70	IOSEL	I	Mode Switching Terminal
71	/TEST	I	Test input
72	AVDD1	I	Power supply input (for analog circuit)
73	OUTL	O	Left channel audio signal output
74	AVSS1	I	GND
75	OUTR	O	Right channel audio signal output
76	RSEL	I	RF signal polarity assignment input (at "H" level, RSEL="H", at "L" level, RESL="L")
77	IOVOD	I	5V supply input
78	PSEL	I	Test terminal (connected to Gnd)
79	MSEL	I	SMCK oscillating frequency designation input ("L":4.2336 MHz, "H":8.4672 MHz)
80	SSEL	I	SUBQ output mode select ("H":Q-code buffer mode)

14.3. 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
16	D3+	O	Motor driver (3) forward-action output
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.

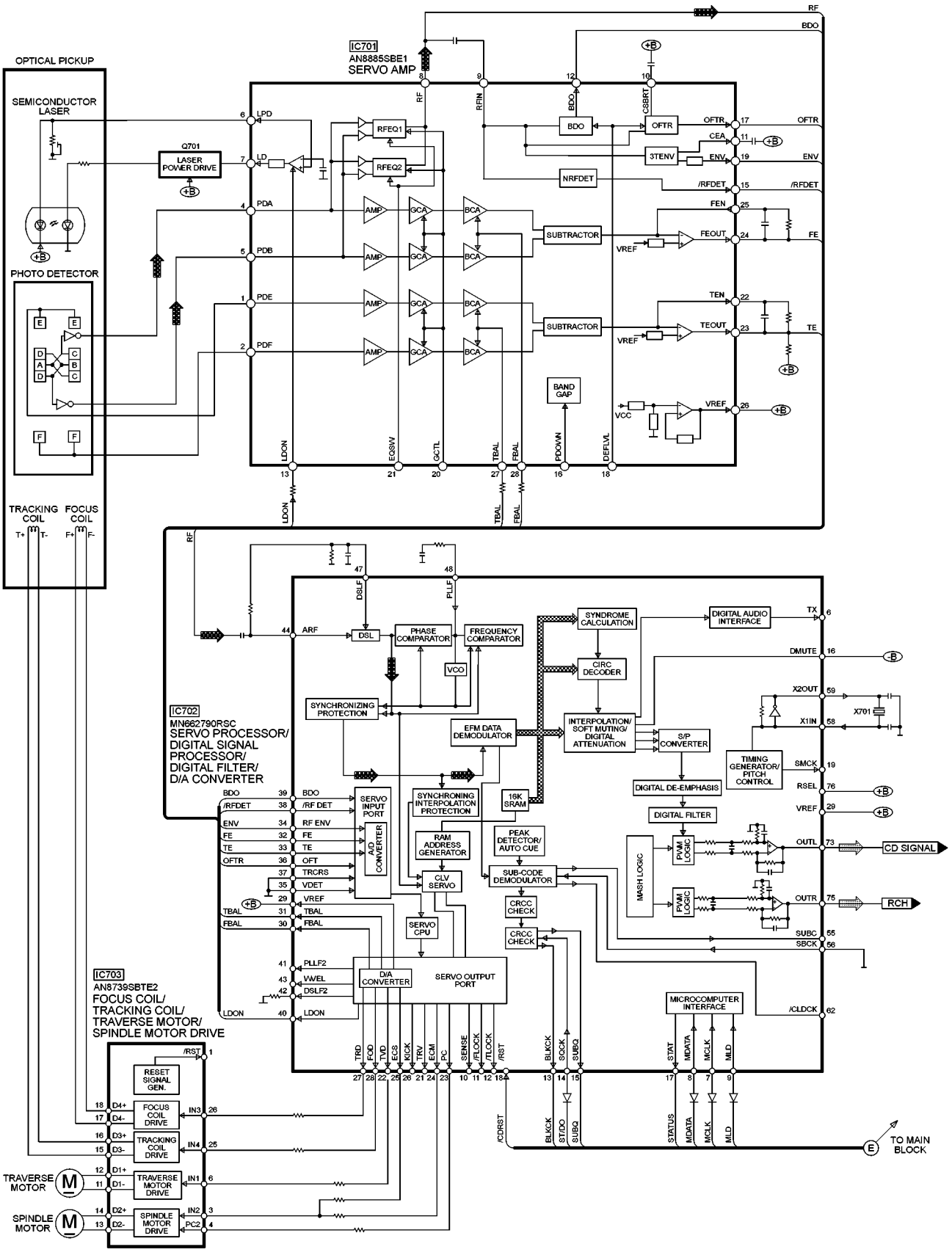
14.4. IC600 (C2BBGF000348) System Microprocessor

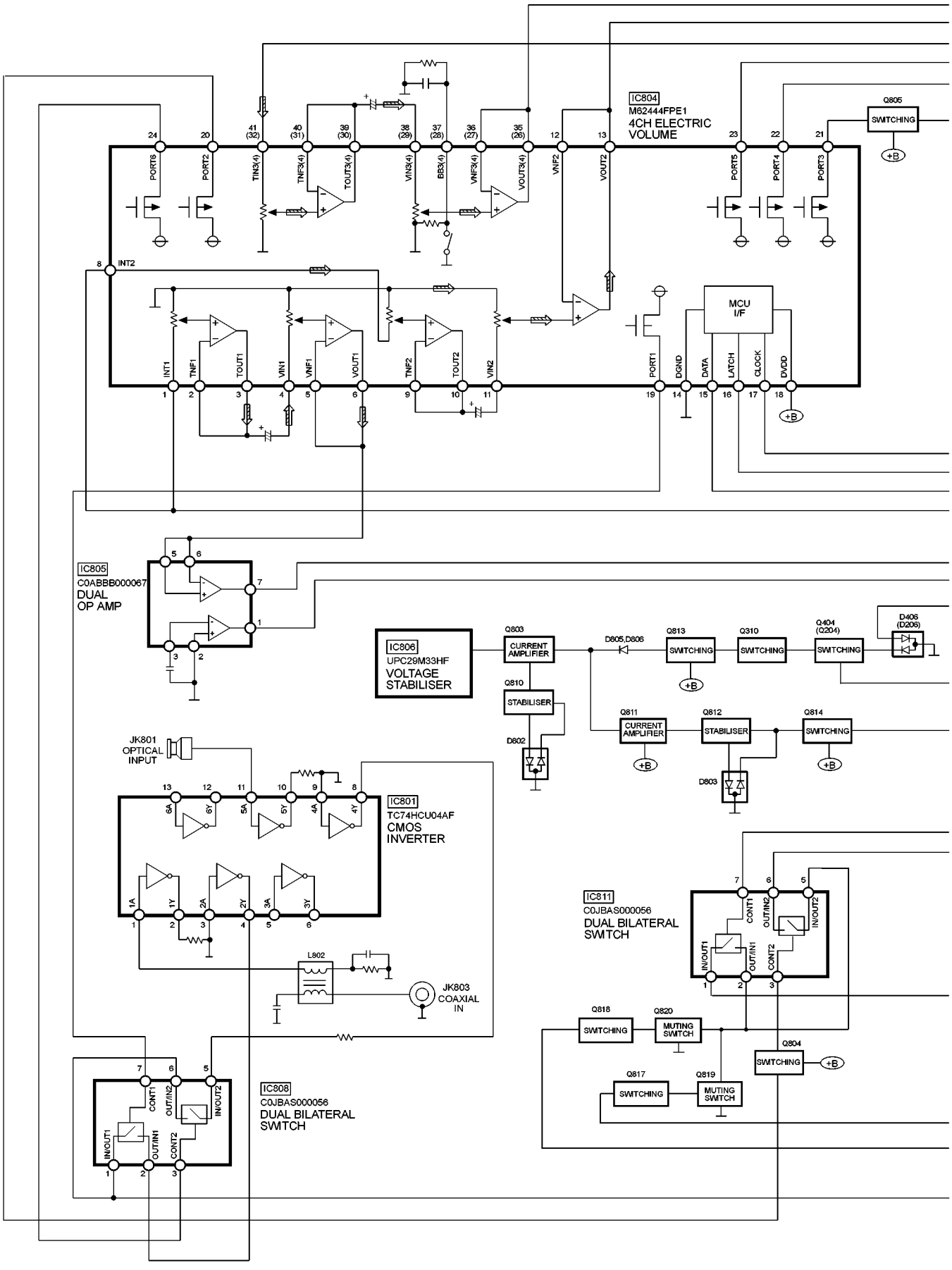
Pin No.	Mark	I/O	Function
1	SD_IN	I	Tuner signal detect input
2	MK_IN2	I/O	Mech condition input 1
3	MK_IN1	I/O	mech condition input 1
4	KEY2	I	Key 2 input
5	KEY1	I	Key 1 input
6	LM_SL	I	Level meter left
7	LM_SR	I	Level meter right
8	CHG_AD2	I	Changer SW A-D detection input 2
9	CHG_AD1	I	Changer SW A-D detection input 1
10	LM_L	I	Level meter left
11	LM_R	I	Level meter right
12	ST/DO/ SQCK	I/O	Tuner IF Data/Stereo Input and CD Sub Code Clock Output
13	STATUS	I	CD signal processor status input (INV)
14	SUBQ	I	CD subcode data output (INV)
15	MCLK/ PLLCK	O	Tuner PLL clock output
16	MDATA/ PLLDA	O	tuner PLL data output
17	CNVSS	-	Flash Mode Terminal
18	/RESET	-	RESET Input
19	XCOUT	-	32.768 kHz Sub Clock
20	XCIN	-	32.768 kHz Sub Clock
21	VSS	-	Ground (0V)
22	XIN	-	4.19 MHz Main Clock
23	XOUT	-	4.19 MHz Main Clock
24	VCC	-	Power Supply (+5V)
25	PHOTO	I	Tape mecha condition input
26	/CDRST	O	CD reset output
27	MLD/ PLLCE	O	CD command load output/ Tuner PLL chip enable

Pin No.	Mark	I/O	Function
28	MILP	O	DDD latch pulse
29	RMT	I	Remote Control Input
30	BLKCK	I	CD block clock input (Inverted)
31	DCDET	I/O	DC detect input
32	SYNC	I	AC Failure Detect Input
33	CHG_CCW	O	Changer motor counter clockwise output
34	CHG_CW	O	Changer motor clockwise output
35	CHG_HLF	O	Changer half drive output
36	CHG_PGR	O	Changer plunger output
37	CHG_SW2	I	CD changer switch 2 input
38	CHG_SW1	I	CD changer switch 1 input
39	/RESTSW	I	CD limit switch input for the most inner point (Active low)
40	PCONT	I/O	Main transformer control output
41	V_JOG_A	I	Volume Jog A
42	V_JOG_B	I	Volume Jog B
43	REG_IN	I	Region and function setting input
44	PDN	I	Reset detection & power down mode
45	PO2	I	State change detection output

Pin No.	Mark	I/O	Function
46	DSP_MICK	O	Dolby digital decoder clock
47	LOCK	I	Lock terminal
48-78	SEG31-SEG1	O	Segment driver
79-80	GRID10-9	O	Digital drive output(Grid drive output)
81-88	GRID8 (REG8)-GRID1 (REG1)	O	Digit drive output (Grid drive output) For regional setting/ function selection use
89	VEE	-	Power supply (-30V)
90	EE_CS	O	EEPROM chip select
91	SER6	O	EXP_CLK/EE_CLK
92	SER5	O	EXP_DAT/EE_DAT
93	SER4	O	DDD_CS
94	SER3	O	MK_DAT/ASP_DAT
95	SER2	O	DDD_DAT/VOL_DAT/ ASP_CLK
96	SER1	O	VOL_CLK/MK_CLK
97	AVSS	-	Analog ground (0V)
98	Vref	-	Reference for A-D
99	SER7	O	4ch volume latch
100	DSP_ MIACK	I	DDD_MIACK

15 Block Diagram




IC804
M62444FPE1
4CH ELECTRIC
VOLUME
Q805
SWITCHING
+B
PORT6
PORT2
TIN3(4)
TNF3(4)
TOUT3(4)
VIN3(4)
BS3(4)
VNF3(4)
VOUT3(4)
VNF2
VOUT2
PORT5
PORT4
PORT3
INT2
INT1
TNF1
TOUT1
VIN1
VNF1
VOUT1
TNF2
TOUT2
VIN2
PORT1
DGND
DATA
LATCH
CLOCK
DVDD
MCU
I/F
IC805
C0ABBB000067
DUAL
OP AMP
IC806
UPC29M33HF
VOLTAGE
STABILISER
Q803
CURRENT
AMPLIFIER
Q810
STABILISER
D802
D805,D806
Q813
SWITCHING
Q310
SWITCHING
Q404
(Q204)
SWITCHING
D406
(D206)
Q811
CURRENT
AMPLIFIER
Q812
STABILISER
Q814
SWITCHING
D803
JK801
OPTICAL
INPUT
IC801
TC74HCU04AF
CMOS
INVERTER
L802
JK803
COAXIAL
IN
IC811
C0JBAS000056
DUAL BILATERAL
SWITCH
Q818
SWITCHING
Q820
MUTING
SWITCH
Q804
SWITCHING
Q817
SWITCHING
Q819
MUTING
SWITCH
IC808
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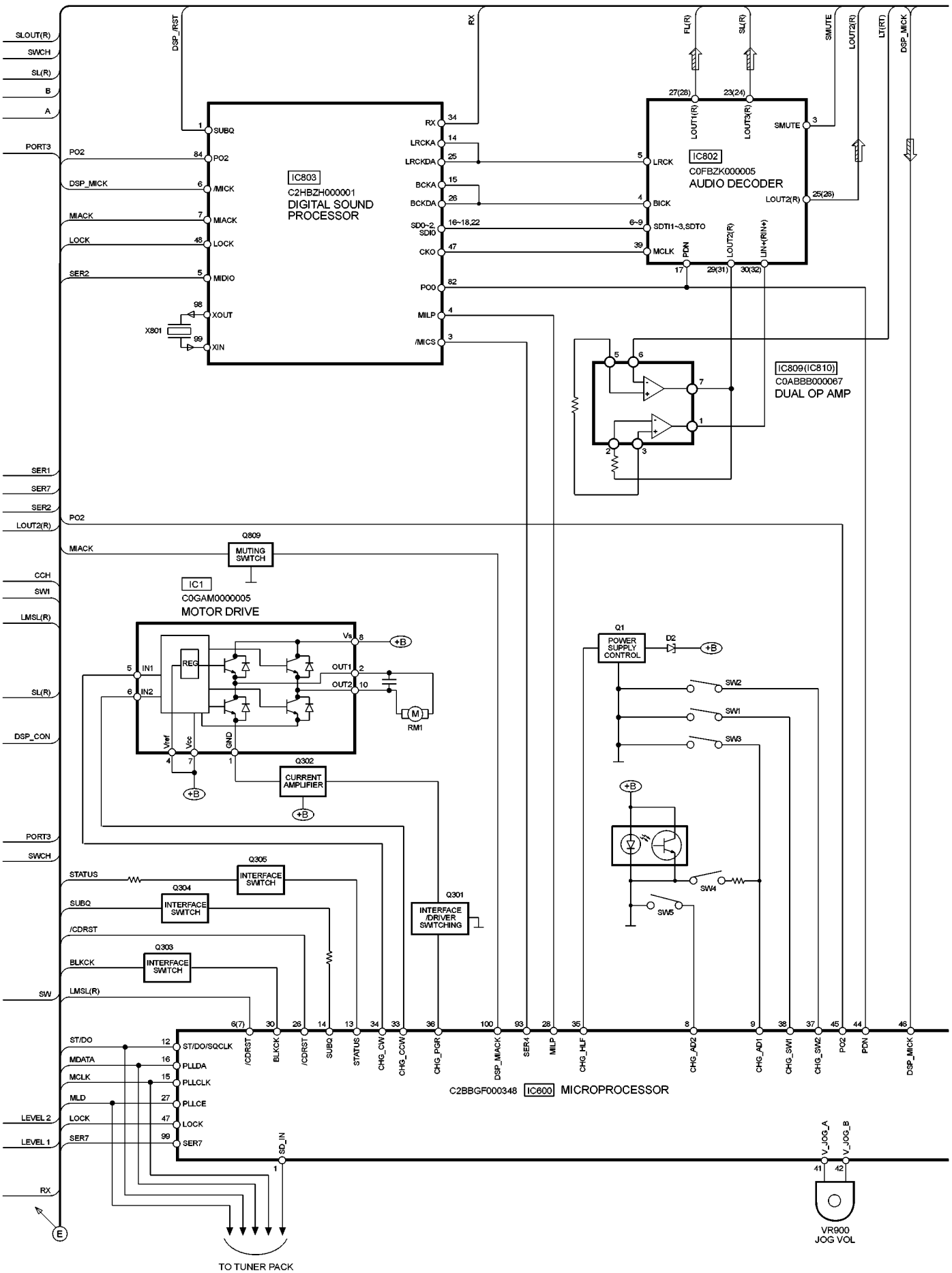
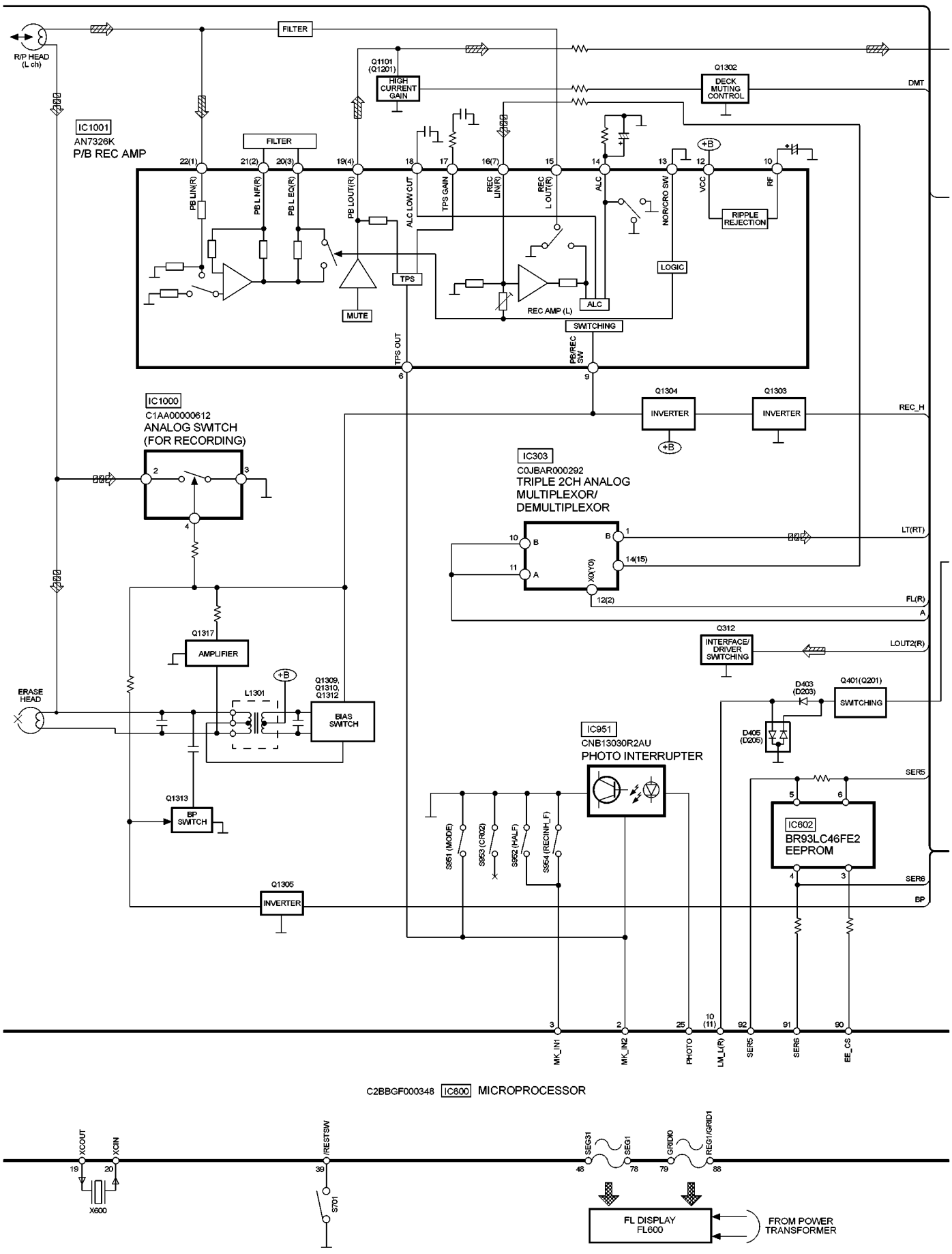
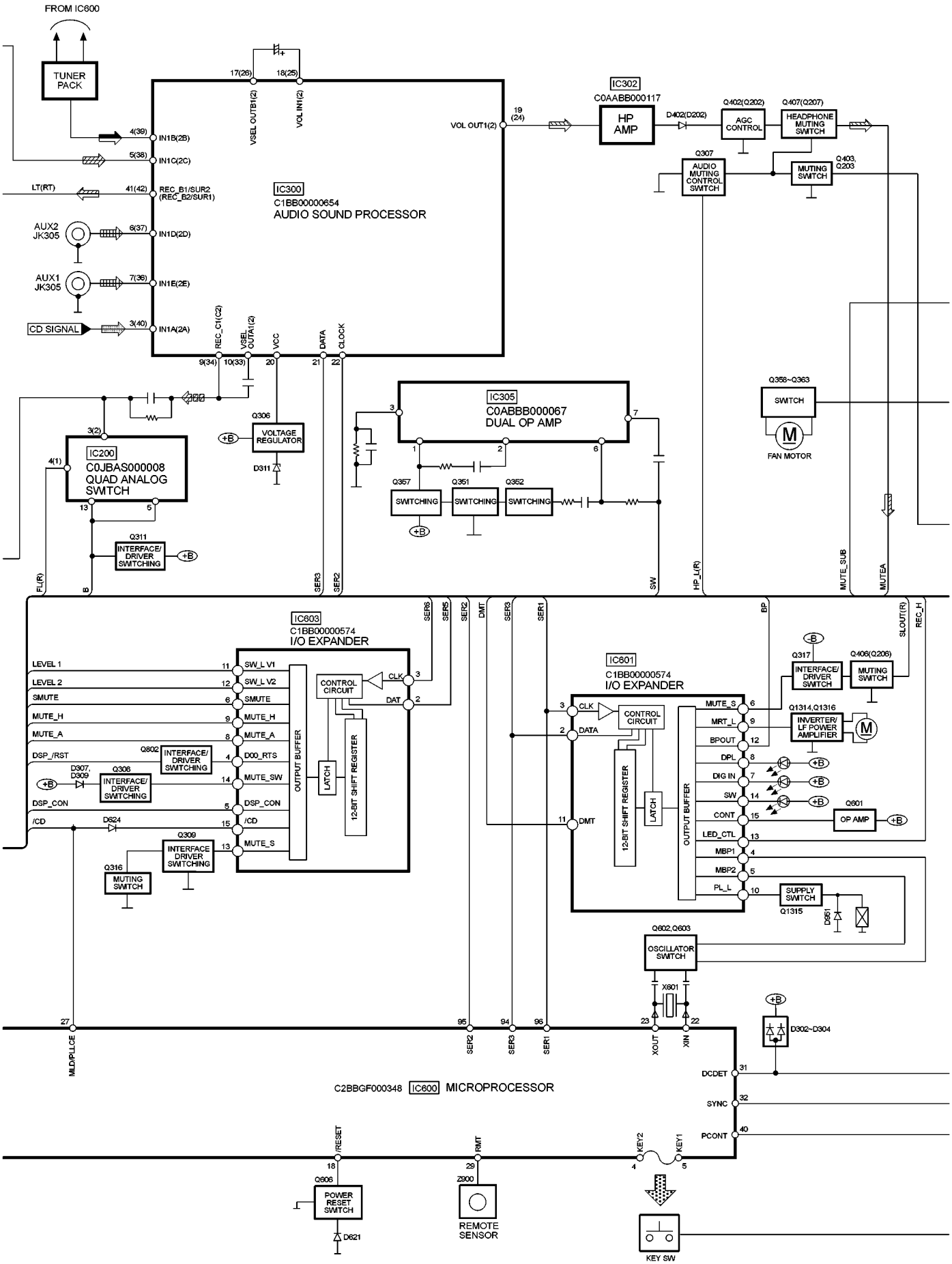
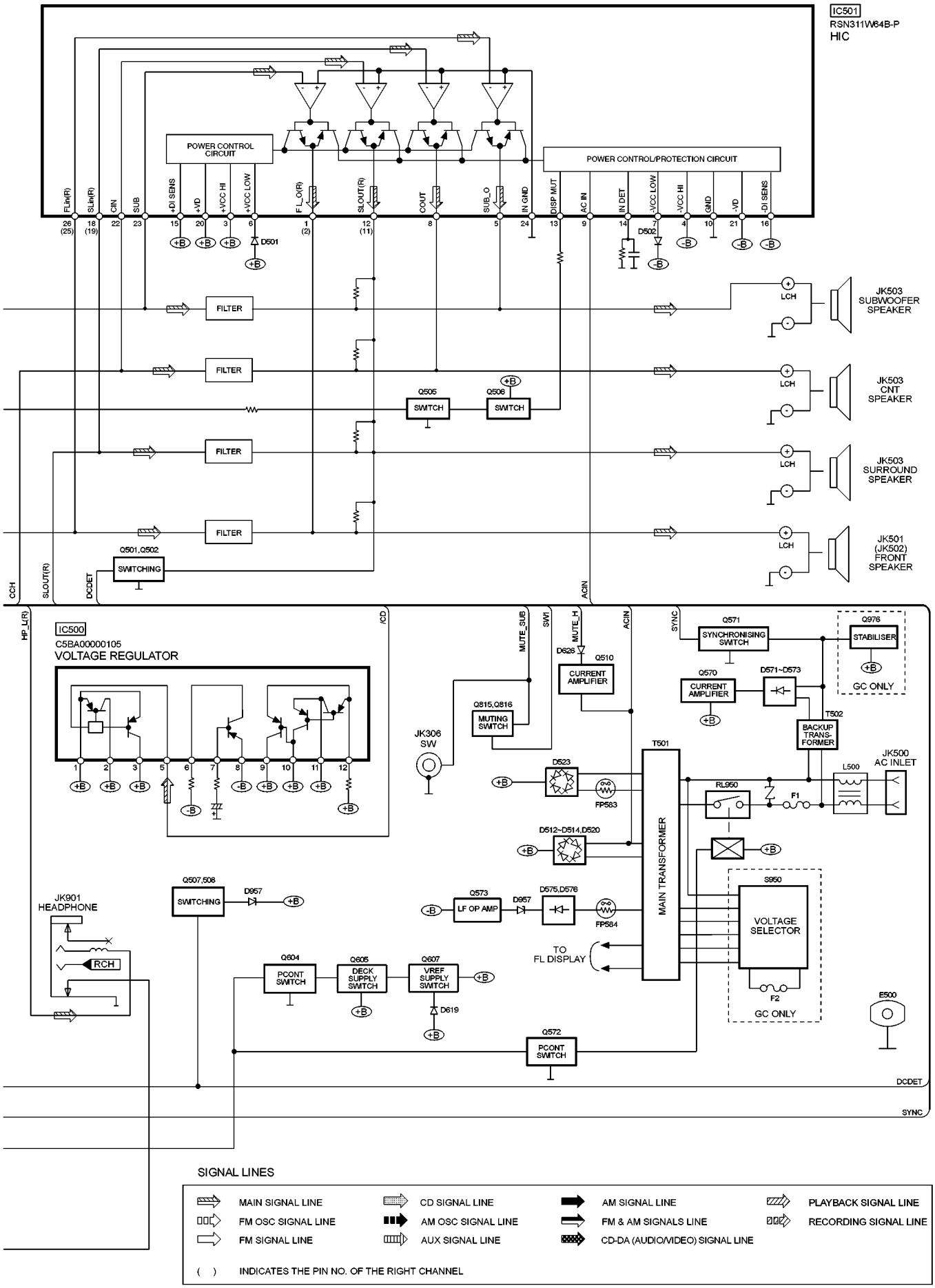
DUAL BILATERAL
SWITCH


IC803
C2HBZH000001
DIGITAL SOUND PROCESSOR
IC802
C0FBZK000005
AUDIO DECODER
IC809(IC810)
C0ABBB000067
DUAL OP AMP
IC1
C0GAM0000005
MOTOR DRIVE
C2BBGF000348 IC600 MICROPROCESSOR
MUTING SWITCH
CURRENT AMPLIFIER
INTERFACE SWITCH
INTERFACE /DRIVER SWITCHING
POWER SUPPLY CONTROL
VR900
JOG VOL
TO TUNER PACK


R/P HEAD (L ch)
FILTER
Q1101 (Q1201)
HIGH CURRENT GAIN
Q1302
DECK MUTING CONTROL
DMT
IC1001
AN7326K
P/B REC AMP
FILTER
PB LIN(R)
PB L NF(R)
PB L EQ(R)
PB LOUT(R)
ALC LOW CUT
TPS GAIN
REC LIN(R)
REC L OUT(R)
ALC
NOR/CRO SW
VCC
RF
RIPPLE REJECTION
LOGIC
TPS
MUTE
ALC
REC AMP (L)
SWITCHING
TPS OUT
PB/REC SW
IC1000
C1AA00000612
ANALOG SWITCH
(FOR RECORDING)
Q1304
INVERTER
Q1303
INVERTER
REC_H
IC303
C0JBAR000292
TRIPLE 2CH ANALOG
MULTIPLEXOR/
DEMULTIPLEXOR
LT(RT)
FL(R)
Q1317
AMPLIFIER
Q312
INTERFACE/ DRIVER SWITCHING
LOUT2(R)
ERASE HEAD
L1301
Q1309, Q1310, Q1312
BIAS SWITCH
D403 (D203)
Q401(Q201)
SWITCHING
D405 (D205)
IC951
CNB13030R2AU
PHOTO INTERRUPTER
SER5
IC602
BR93LC46FE2
EEPROM
SER6
BP
Q1313
BP SWITCH
Q1305
INVERTER
S951 (MODE)
S953 (CRO2)
S952 (HALF)
S954 (RECINH_F)
MK_IN1
MK_IN2
PHOTO
LM_L/(R)
SER5
SER6
EE_CS
C2BBGF000348 IC600 MICROPROCESSOR
XCOUT
XCIN
X600
/RESTSW
S701
SEG31
SEG1
GRID0
REG1/GRID1
FL DISPLAY
FL600
FROM POWER TRANSFORMER


FROM IC600
TUNER PACK
IC300
C1BB00000654
AUDIO SOUND PROCESSOR
IC302
C0AABB000117
HP AMP
AGC CONTROL
HEADPHONE MUTING SWITCH
AUDIO MUTING CONTROL SWITCH
MUTING SWITCH
AUX2 JK305
AUX1 JK305
CD SIGNAL
IC200
C0JBAS000008
QUAD ANALOG SWITCH
VOLTAGE REGULATOR
IC305
C0ABBB000067
DUAL OP AMP
SWITCHING
SWITCH
FAN MOTOR
INTERFACE/ DRIVER SWITCHING
IC603
C1BB00000574
I/O EXPANDER
CONTROL CIRCUIT
OUTPUT BUFFER
LATCH
12-BIT SHIFT REGISTER
IC601
C1BB00000574
I/O EXPANDER
INVERTER/ LF POWER AMPLIFIER
OP AMP
SUPPLY SWITCH
OSCILLATOR SWITCH
X601
D302~D304
C2BBGF000348 IC600 MICROPROCESSOR
POWER RESET SWITCH
REMOTE SENSOR
KEY SW


IC501
RSN311W64B-P
HIC
POWER CONTROL CIRCUIT
POWER CONTROL/PROTECTION CIRCUIT
FLin(R)
SLin(R)
CIN
SUB
+DI SENS
+VD
+VCC HI
+VCC LOW
F_LO(R)
SLOUT(R)
COUT
SUB_O
IN GND
DISP MUT
AC IN
IN DET
-VCC LOW
-VCC HI
GND
-VD
-DI SENS
D501
D502
FILTER
FILTER
FILTER
FILTER
Q505
SWITCH
Q506
SWITCH
Q501,Q502
SWITCHING
LCH
JK503
SUBWOOFER
SPEAKER
JK503
CNT
SPEAKER
JK503
SURROUND
SPEAKER
JK501
(JK502)
FRONT
SPEAKER
CCH
SLOUT(R)
DCDET
ACIN
HP_LR
IC500
C5BA00000105
VOLTAGE REGULATOR
/CD
MUTE_SUB
SW1
MUTE_H
D628
Q510
CURRENT AMPLIFIER
Q815,Q816
MUTING SWITCH
JK306
SW
D523
FP583
D512~D514,D520
Q573
LF OP AMP
D957
D575,D576
FP584
TO
FL DISPLAY
MAIN TRANSFORMER
T501
SYNC
Q571
SYNCHRONISING SWITCH
Q570
CURRENT AMPLIFIER
D571~D573
Q976
STABILISER
GC ONLY
T502
BACKUP TRANS-FORMER
JK500
AC INLET
L500
RL950
F1
S950
VOLTAGE SELECTOR
F2
GC ONLY
E500
JK901
HEADPHONE
RCH
Q507,508
SWITCHING
D957
Q604
PCONT SWITCH
Q605
DECK SUPPLY SWITCH
Q607
VREF SUPPLY SWITCH
D619
Q572
PCONT SWITCH
DCDET
SYNC
SIGNAL LINES
MAIN SIGNAL LINE
FM OSC SIGNAL LINE
FM SIGNAL LINE
CD SIGNAL LINE
AM OSC SIGNAL LINE
AUX SIGNAL LINE
AM SIGNAL LINE
FM & AM SIGNALS LINE
CD-DA (AUDIO/VIDEO) SIGNAL LINE
PLAYBACK SIGNAL LINE
RECORDING SIGNAL LINE
( ) INDICATES THE PIN NO. OF THE RIGHT CHANNEL

16 Schematic Diagram

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

Note:

S501 : Voltage Selector switch
S601 : Deck Open switch
S602 : Subwoofer switch
S603 : Preset EQ switch
S604 : SS EQ switch
S605 : DPL switch
S606 : Power switch
S607 : REC switch
S608 : Digital switch
S701 : Reset switch
S901 : CD switch
S902 : Tape switch
S903 : Tuner Band switch
S904 : AUX switch
S905 : -V/ REW switch
S906 : +V/ FF switch
S907 : Stop/ Demo switch
S908 : CD 1 switch
S909 : CD 2 switch
S910 : CD 3 switch
S911 : CD 4 switch
S912 : CD 5 switch
S913 : Open/ Close switch
S951 : Mode switch
S952 : Half switch
S953 : CR02 switch
S954 : Recinh_f switch

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

(( )) : CD < > : FM

- **Importance safety notice :**

  Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. Whenreplacing 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.

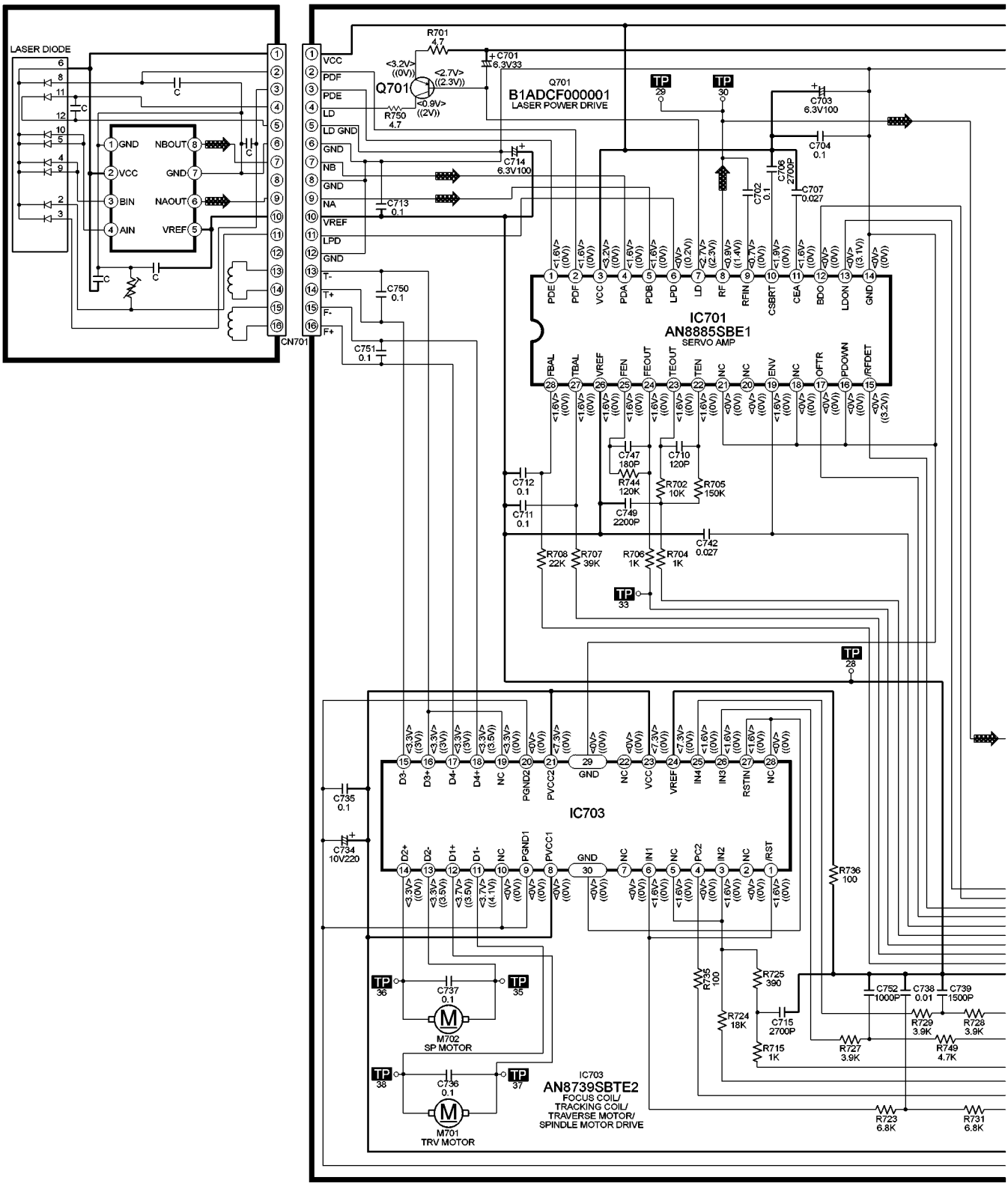
- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

SCHEMATIC DIAGRAM -1

: +B SIGNAL LINE : CD-DA SIGNAL LINE

OPTICAL PICKUP CIRCUIT

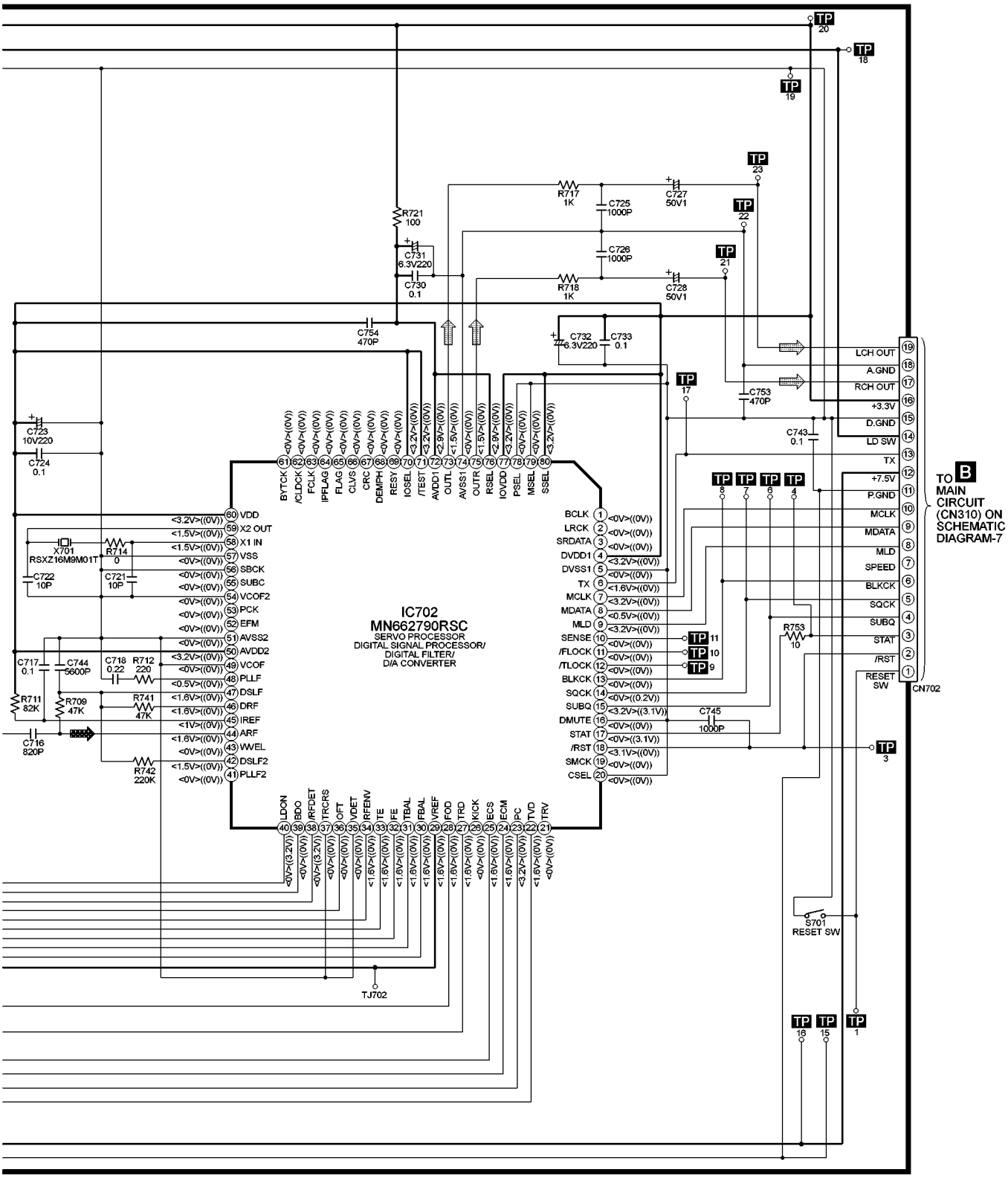
A CD SERVO CIRCUIT



SCHEMATIC DIAGRAM - 2

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

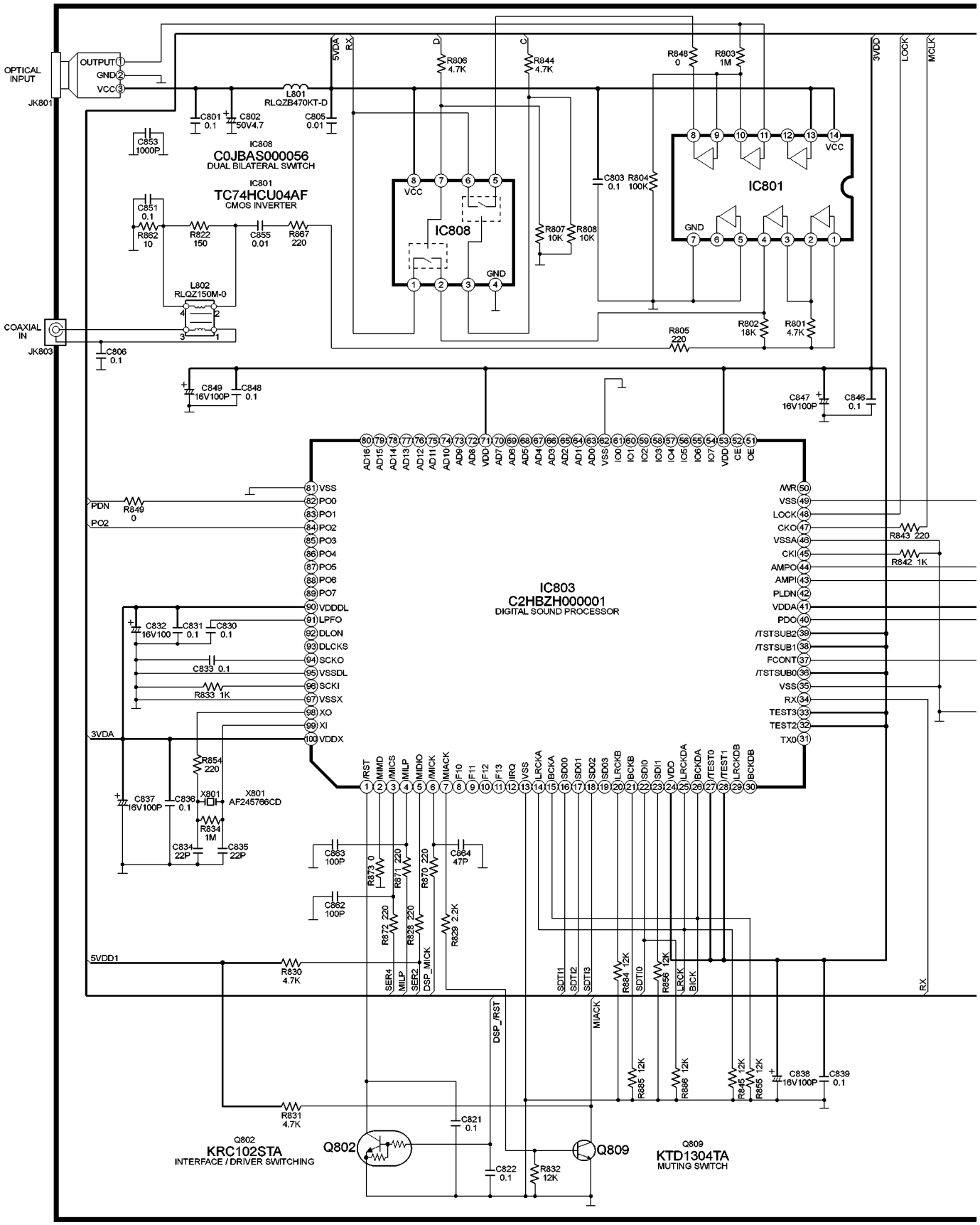
A CD SERVO CIRCUIT



SCHEMATIC DIAGRAM - 3

—— : +B SIGNAL LINE

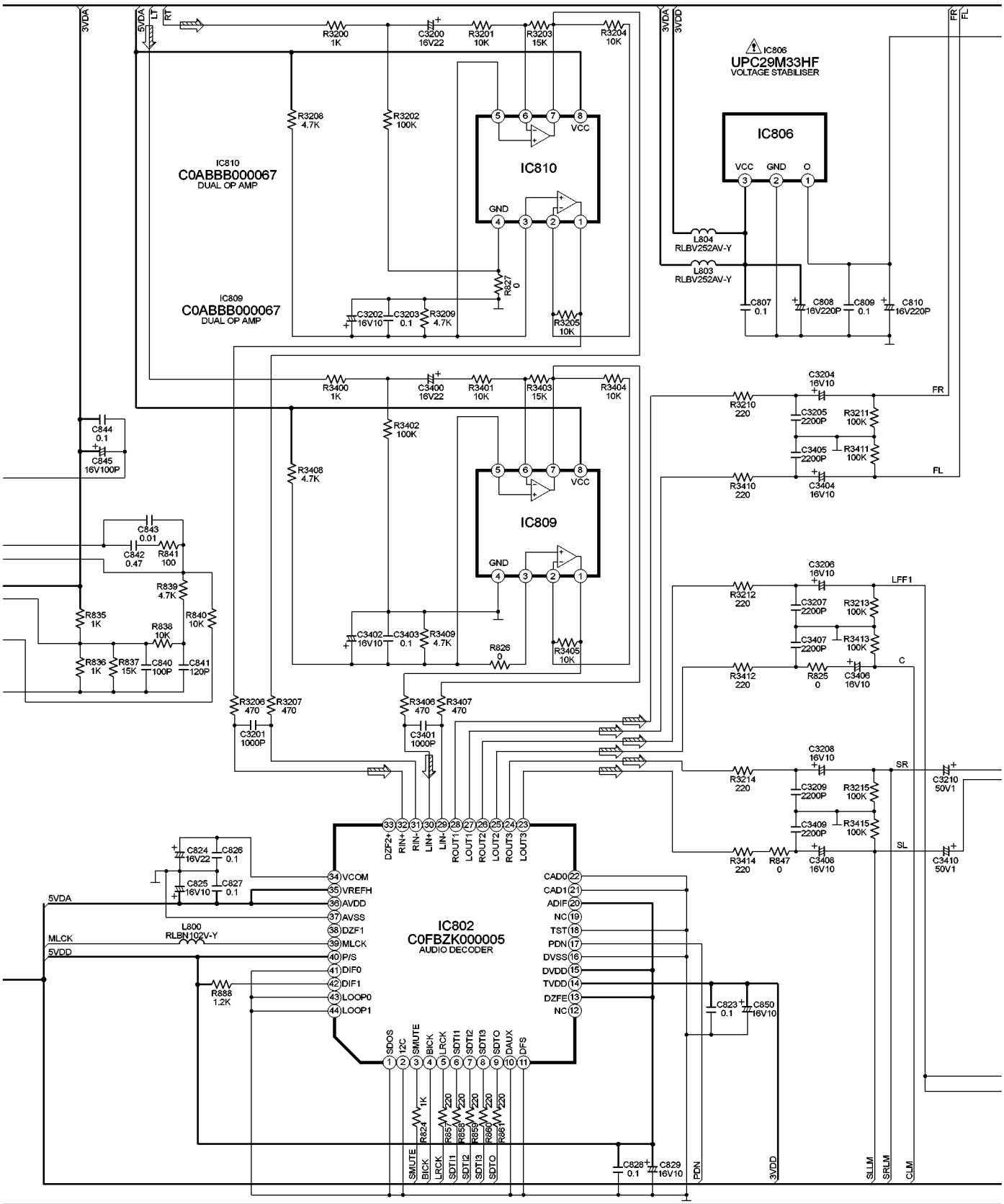
B DSP/MAIN CIRCUIT



SCHEMATIC DIAGRAM - 4

—— : +B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

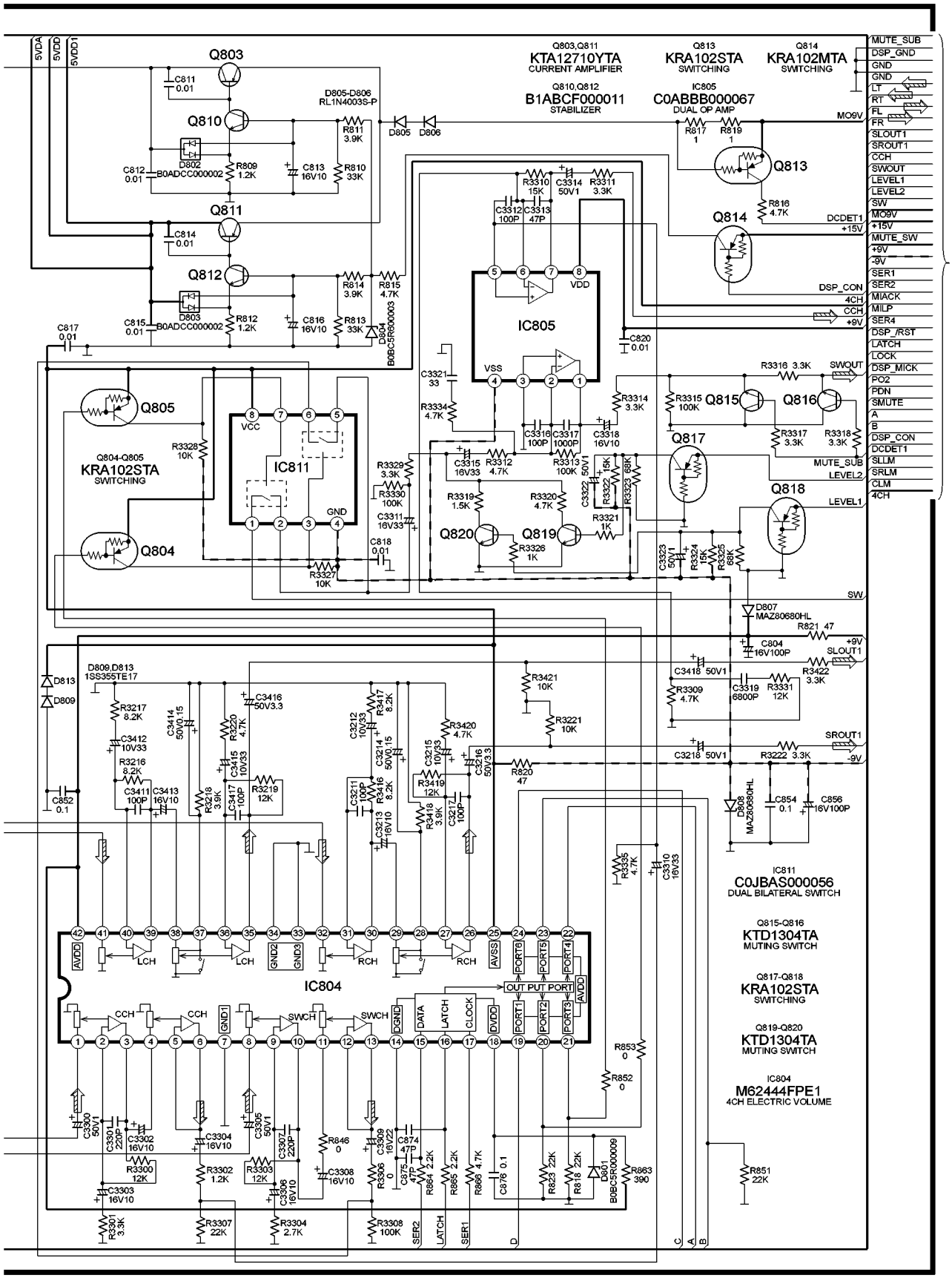
B DSP/MAIN CIRCUIT



SCHEMATIC DIAGRAM - 5

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

B DSP/MAIN CIRCUIT



SCHEMATIC DIAGRAM - 6

: +B SIGNAL LINE
: FM/AM SIGNAL LINE
: MAIN SIGNAL LINE
: CD SIGNAL LINE
: PLAYBACK SIGNAL LINE
: RECORD SIGNAL LINE
: AUX SIGNAL LINE

B MAIN CIRCUIT

TO C PANEL CIRCUIT (CP601) ON SCHEMATIC DIAGRAM-12

IC300
C1BB00000654
AUDIO SOUND PROCESSOR

TO TUNER PACK (RAN0004MM-2)

TO G DECK CIRCUIT (H1304 /W1304) ON SCHEMATIC DIAGRAM-14

TO J CD LOADING CIRCUIT (CN1) ON SCHEMATIC DIAGRAM-17

Q201,Q204,Q310,Q401,Q404
KTC3875GRTA
SWITCHING

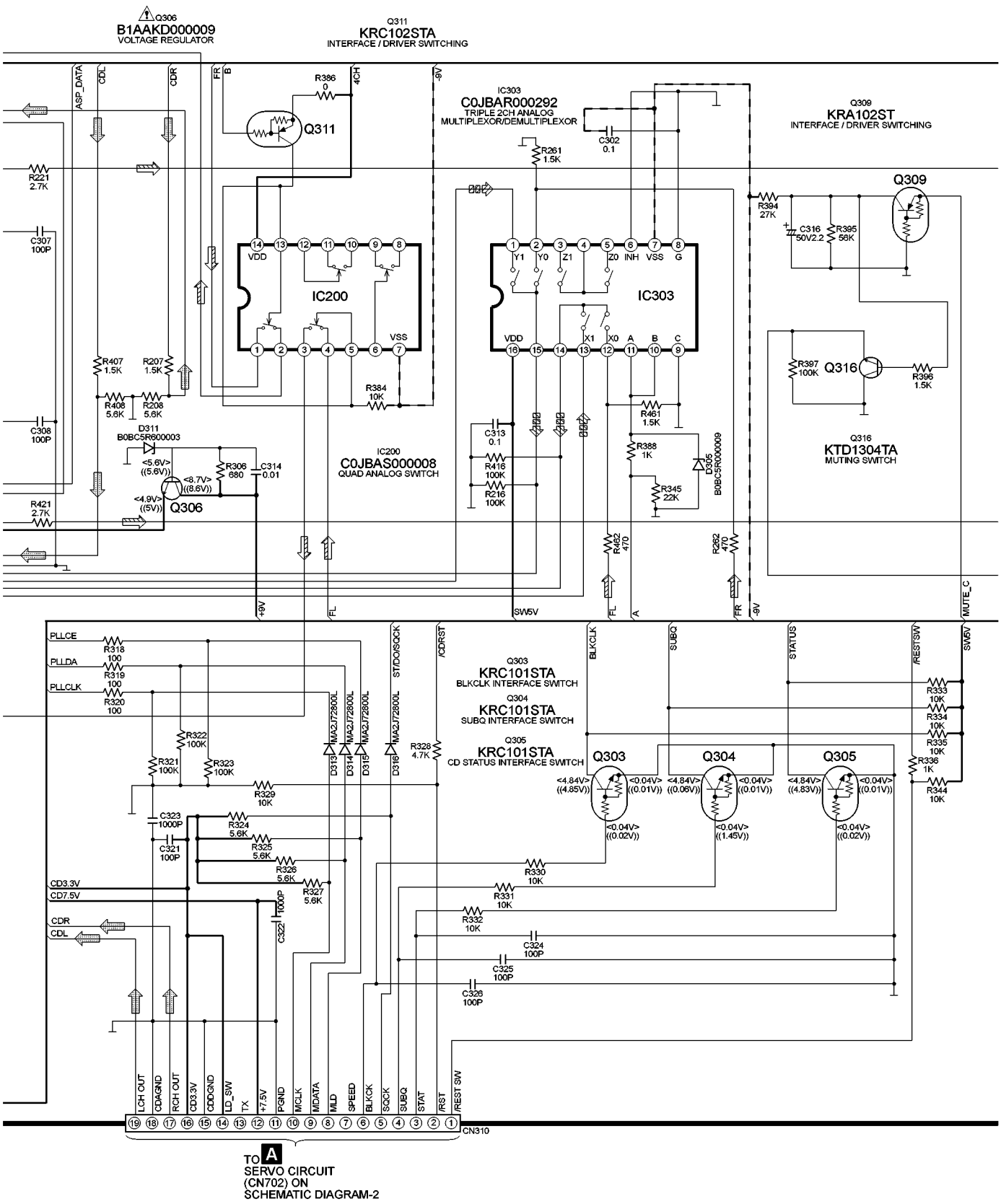
Q301
KRC102STA
INTERFACE / DRIVER SWITCHING

Q302
KTA12710YTA
CURRENT AMPLIFIER

SCHEMATIC DIAGRAM - 7

—— : +B SIGNAL LINE ⇨ : CD SIGNAL LINE ⇨ : RECORD SIGNAL LINE
– – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

B MAIN CIRCUIT

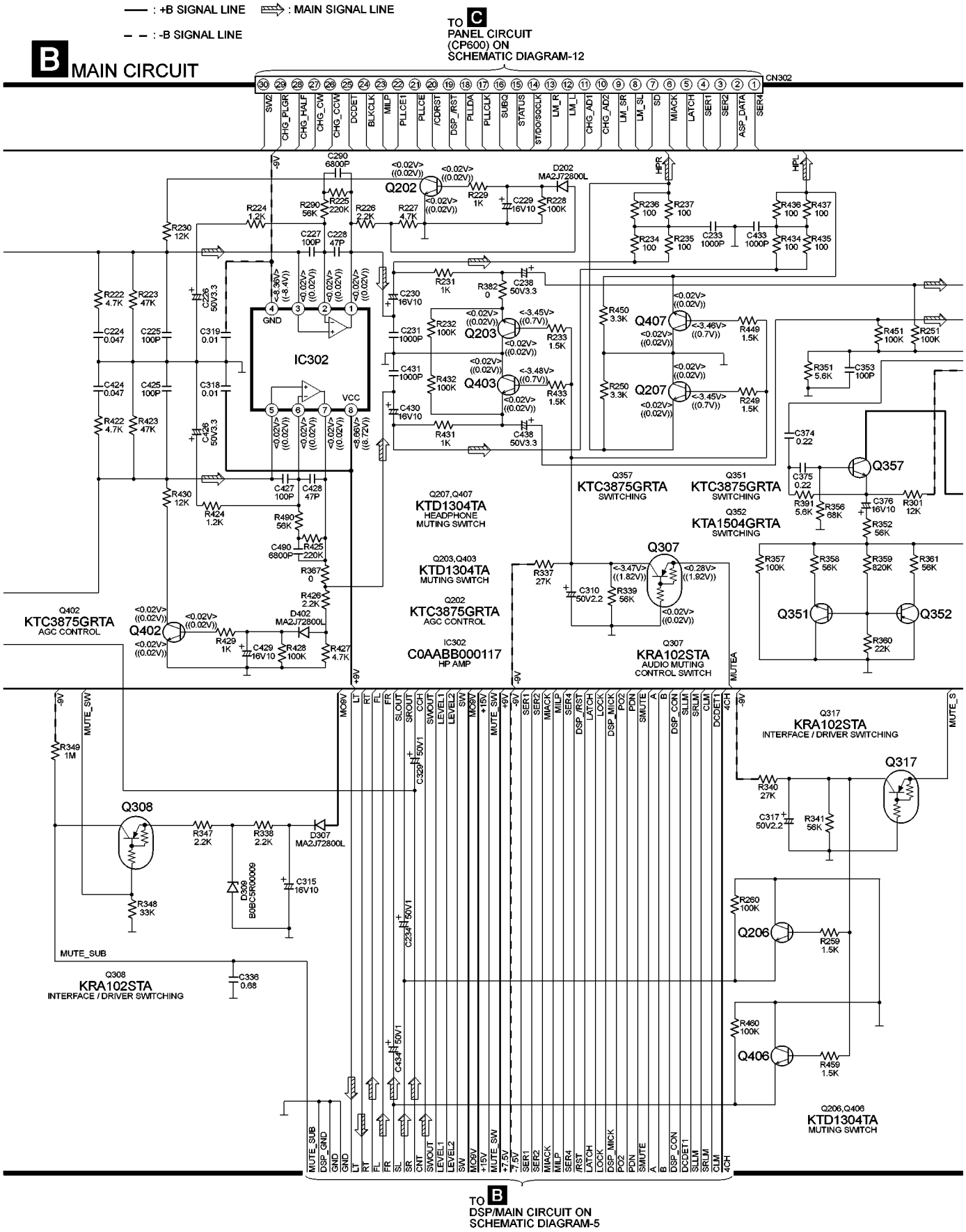


SCHEMATIC DIAGRAM - 8

—— : +B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

– – : -B SIGNAL LINE

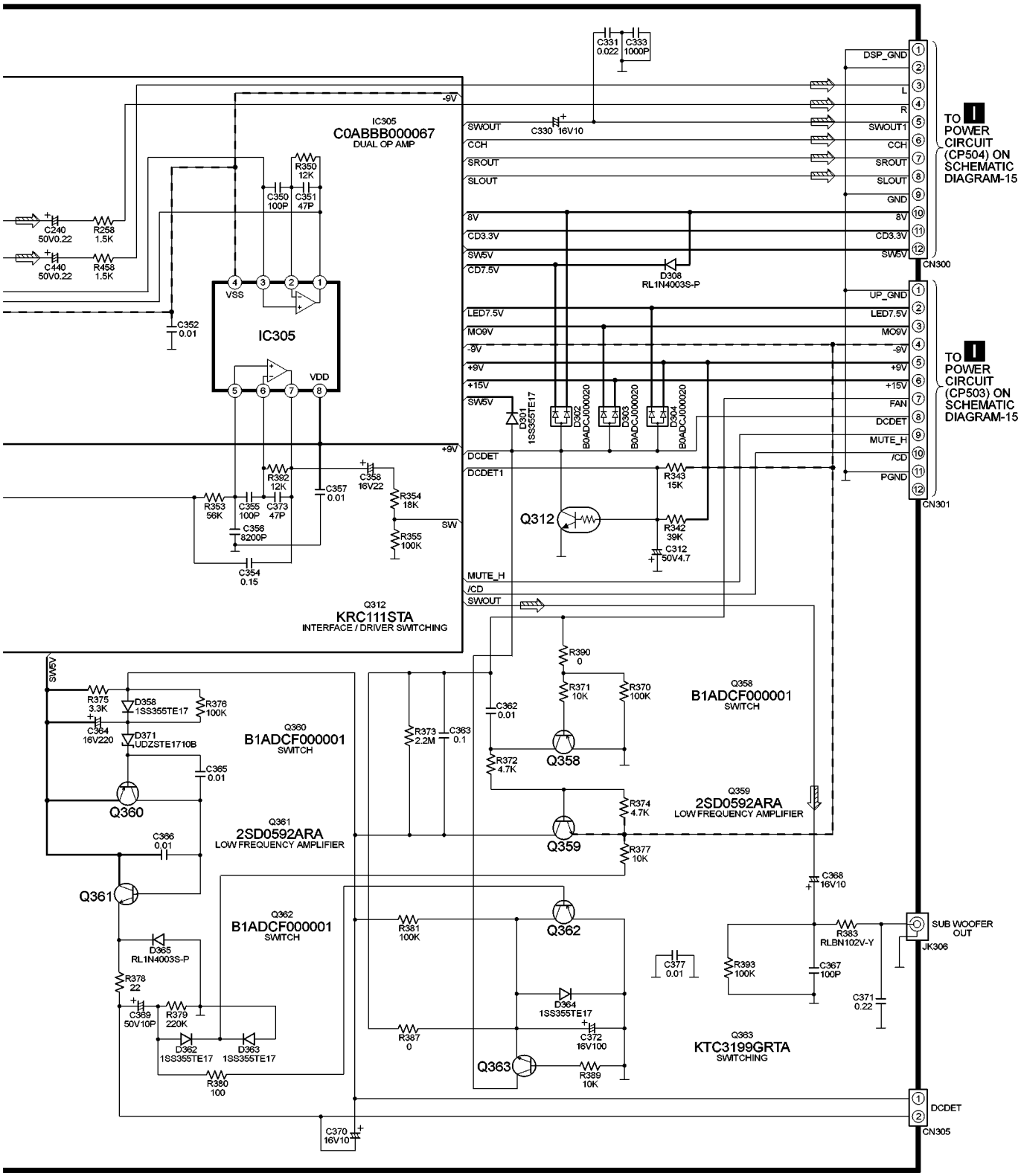
B MAIN CIRCUIT



SCHEMATIC DIAGRAM - 9

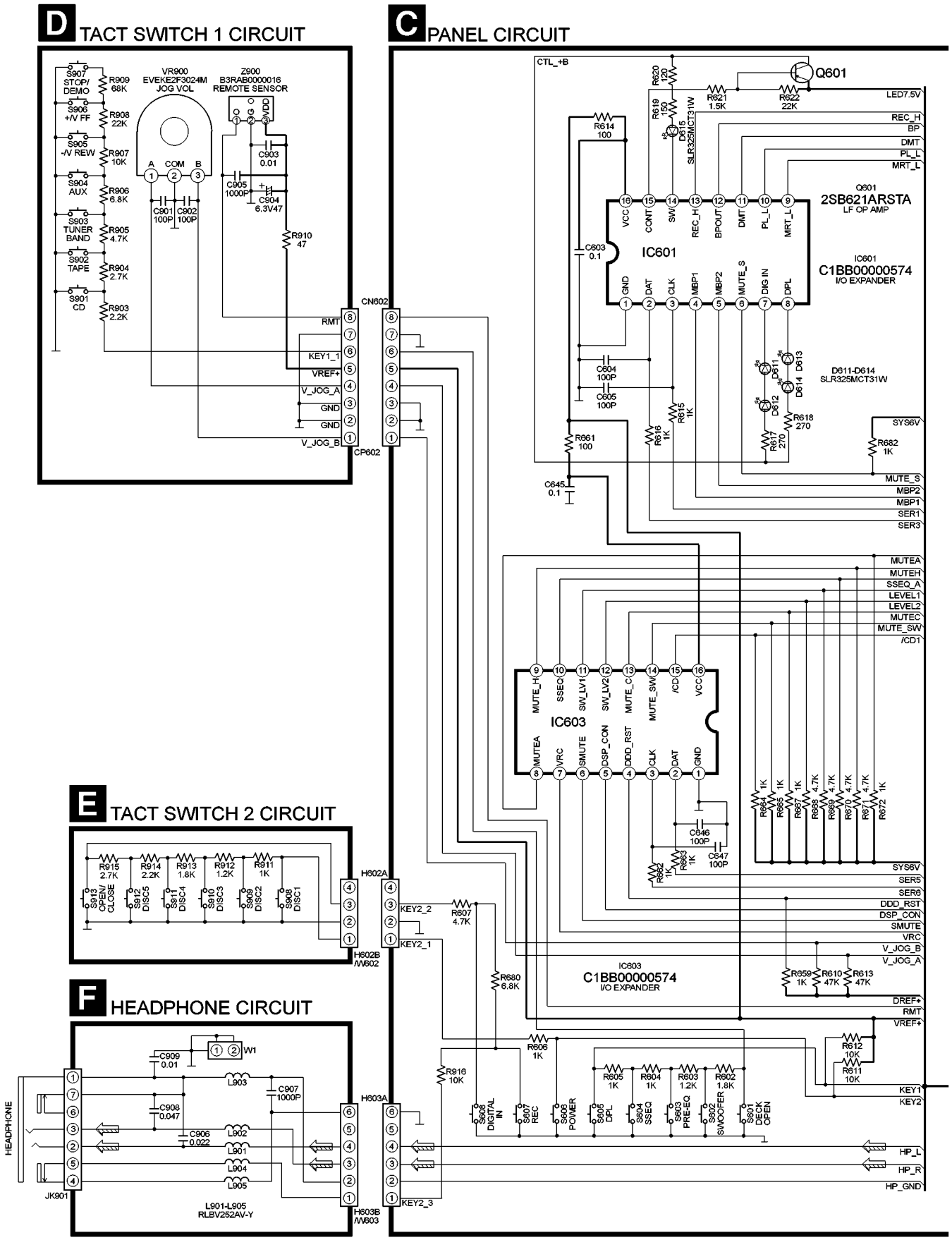
—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

B MAIN CIRCUIT



SCHEMATIC DIAGRAM - 10

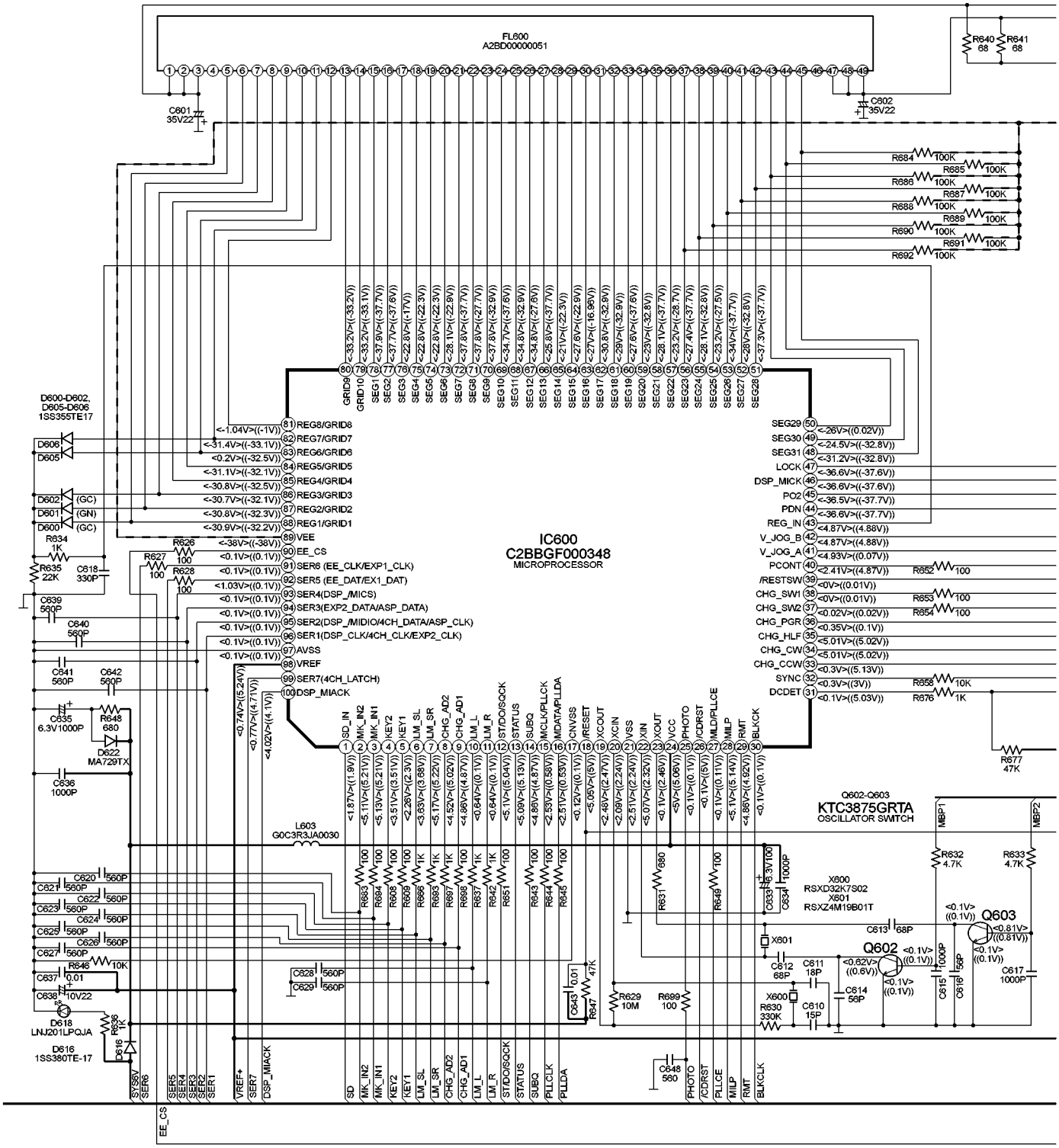
—— : +B SIGNAL LINE ⇨ : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM - 11

—— : +B SIGNAL LINE – – : -B SIGNAL LINE

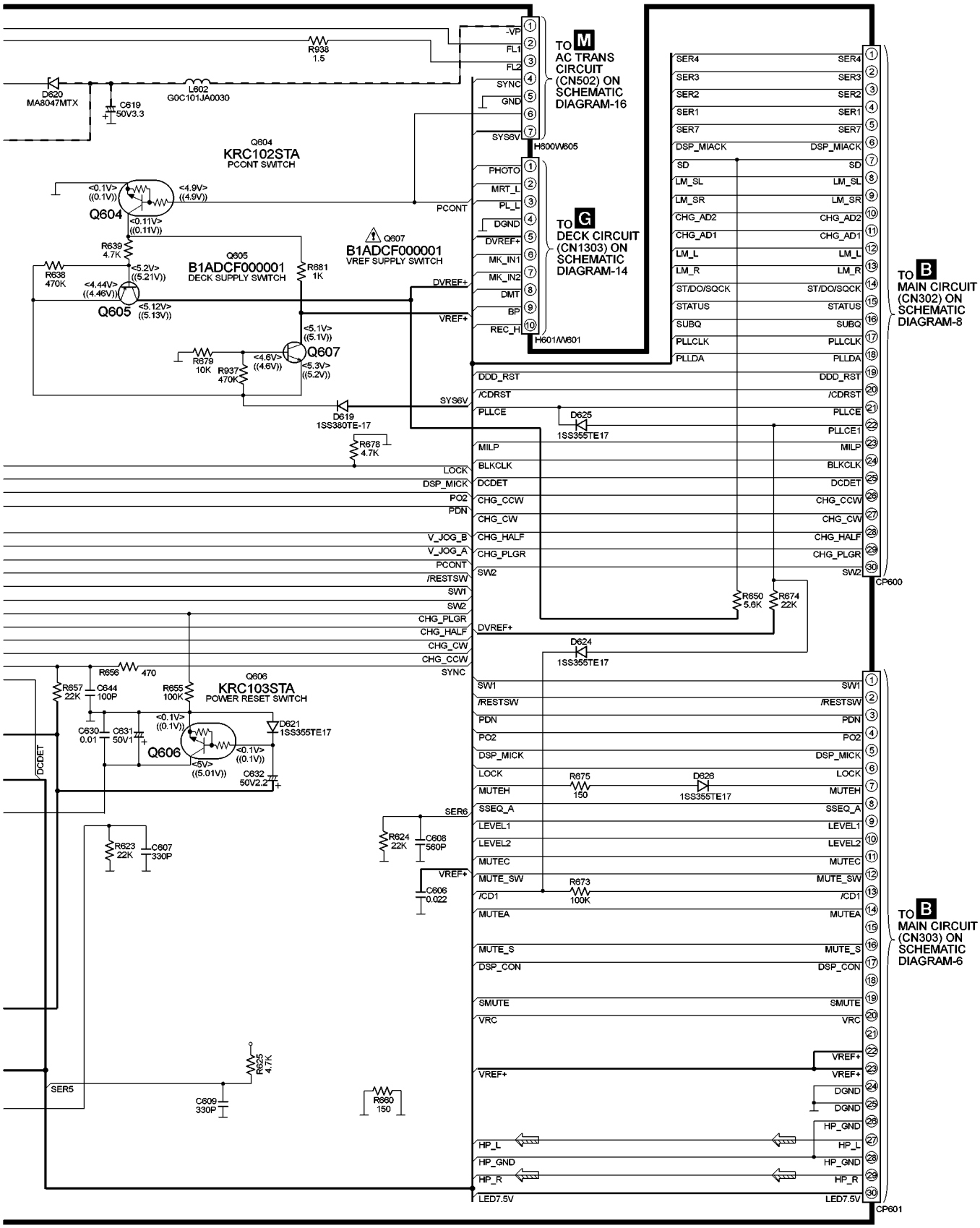
C PANEL CIRCUIT



SCHEMATIC DIAGRAM - 12

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

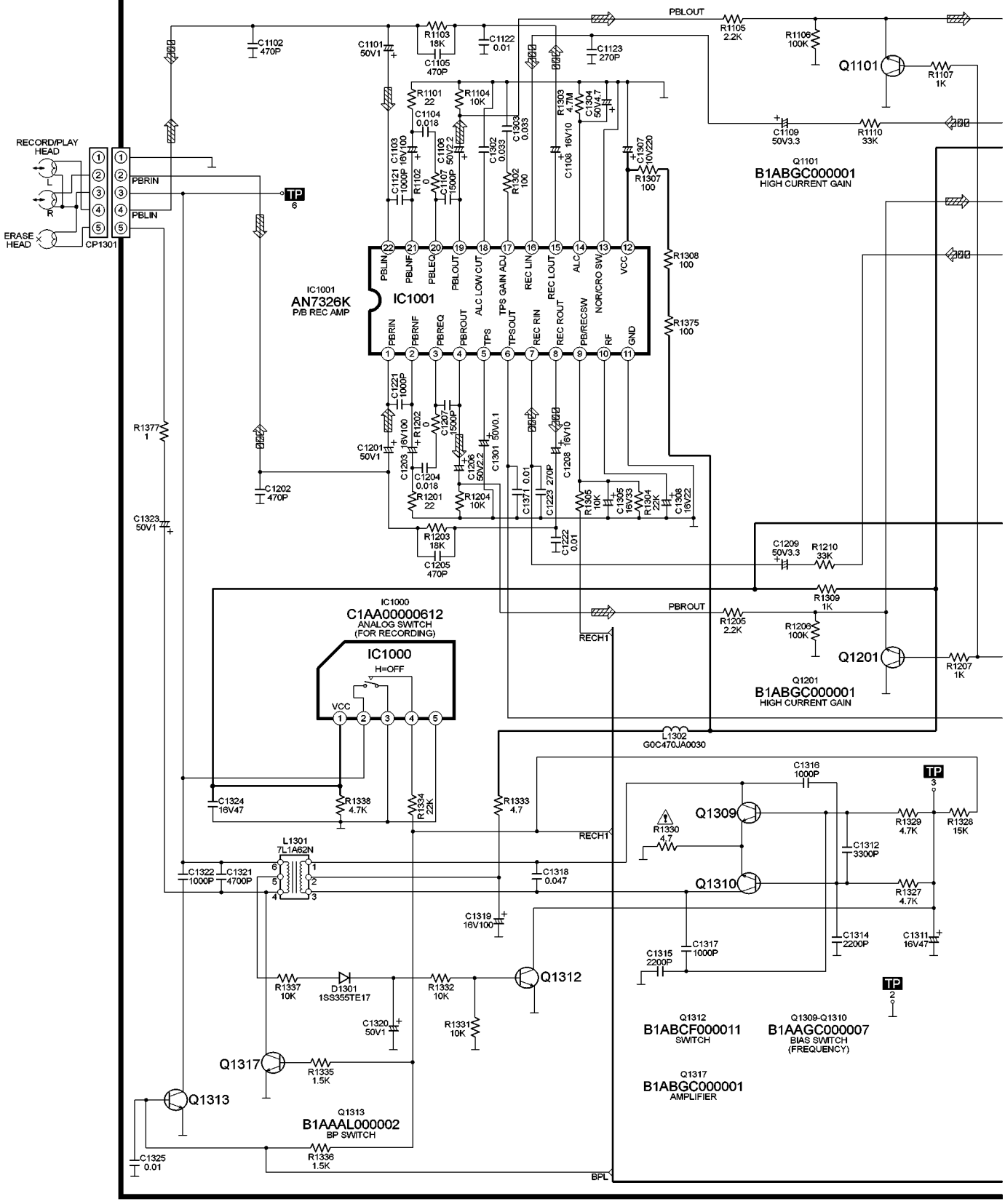
C PANEL CIRCUIT



SCHEMATIC DIAGRAM - 13

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

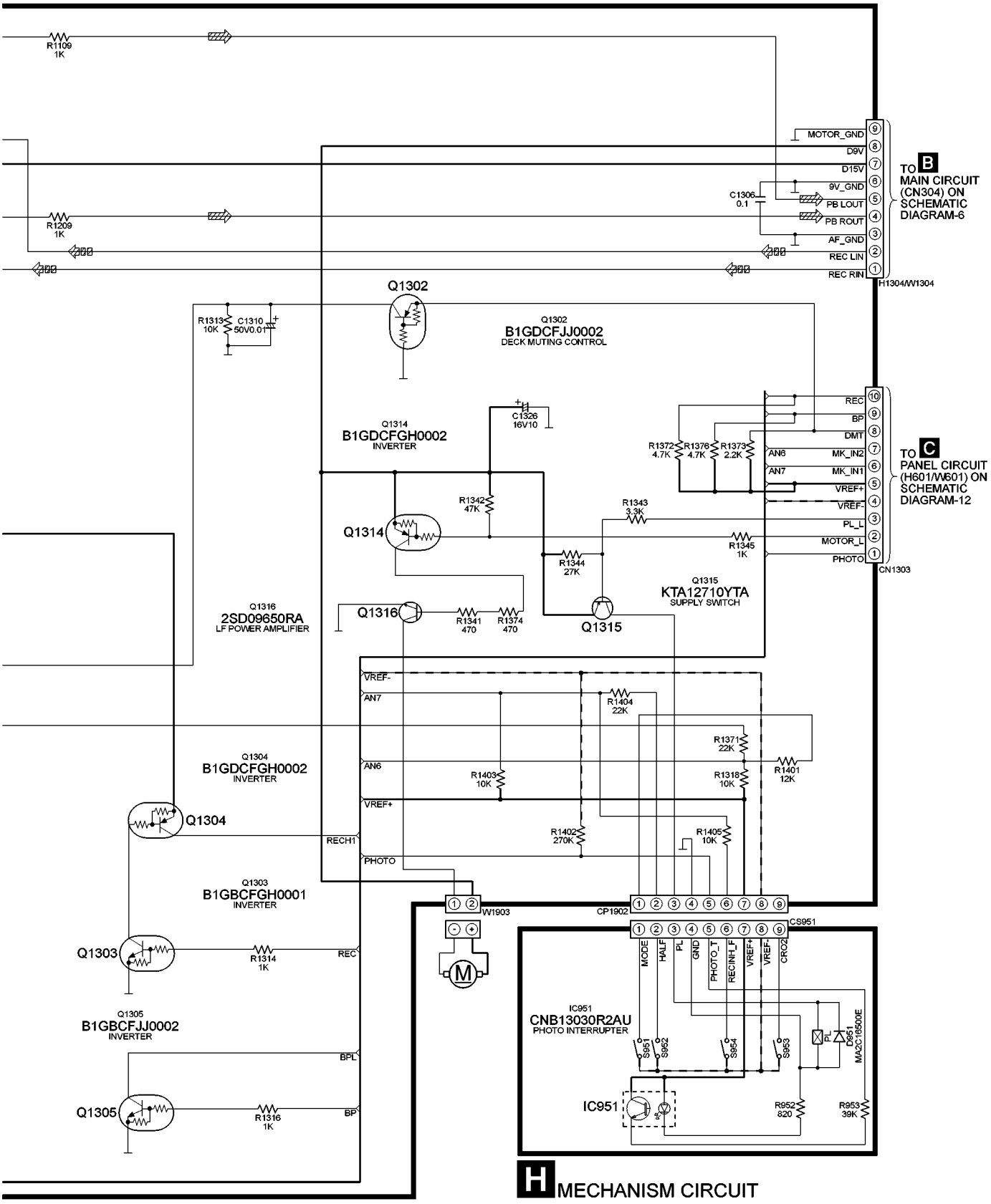
G DECK CIRCUIT



SCHEMATIC DIAGRAM - 14

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

G DECK CIRCUIT

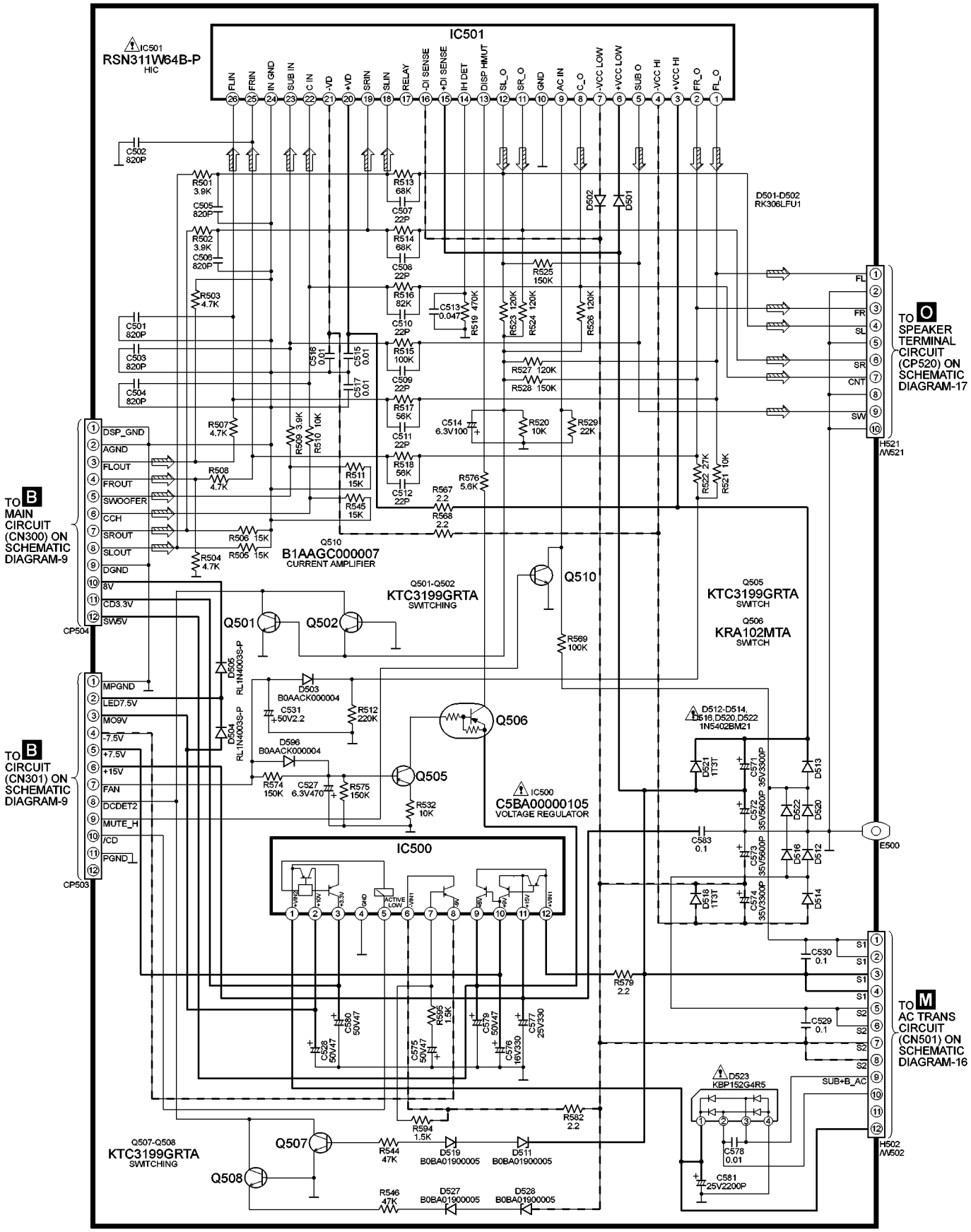


H MECHANISM CIRCUIT

SCHEMATIC DIAGRAM - 15

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

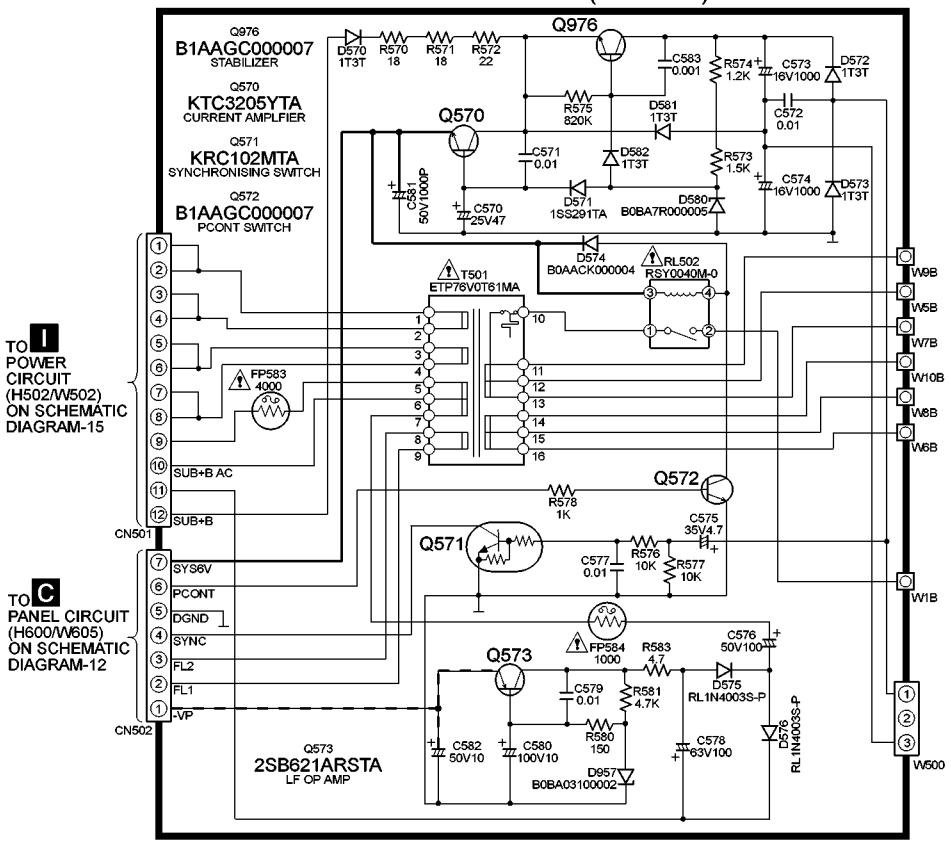
I POWER CIRCUIT



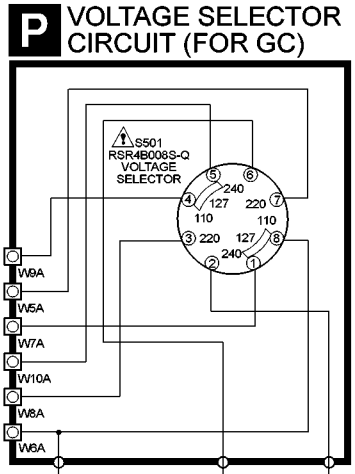
SCHEMATIC DIAGRAM - 16

—— : +B SIGNAL LINE

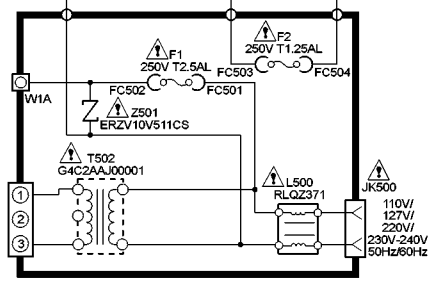
M AC TRANSFORMER CIRCUIT (FOR GC)



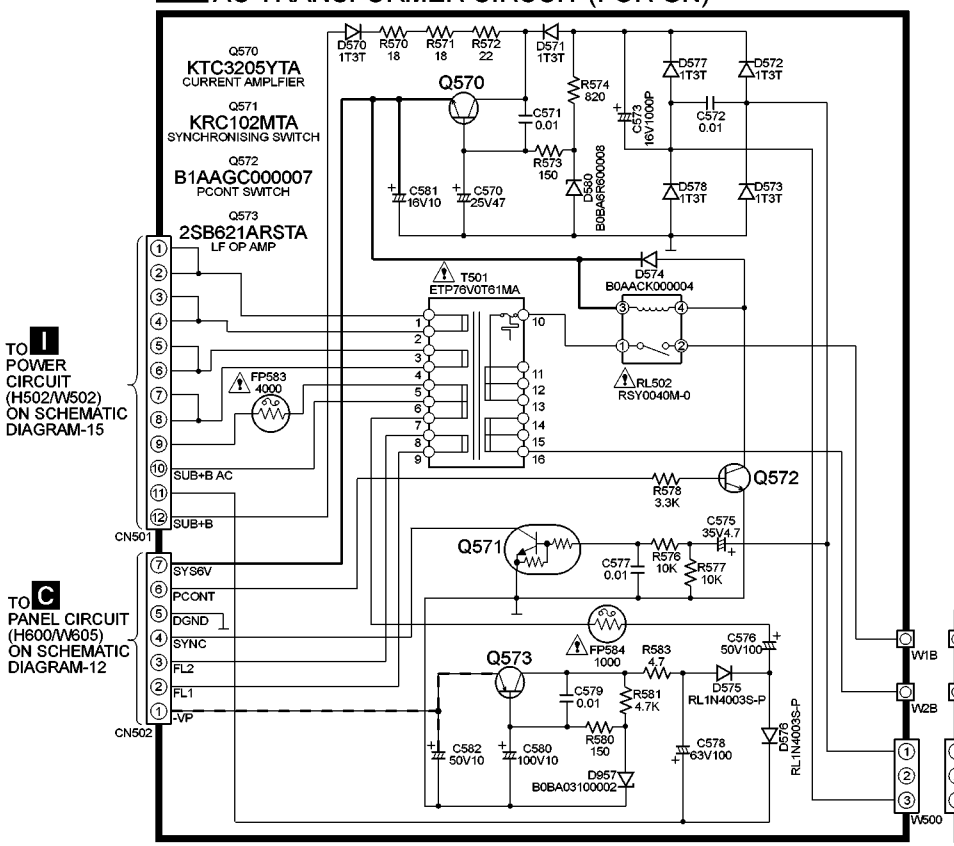
P VOLTAGE SELECTOR CIRCUIT (FOR GC)



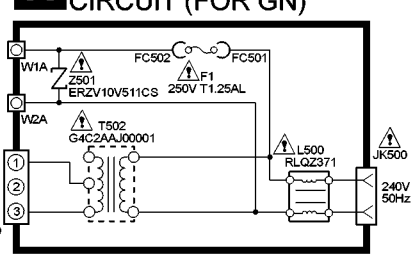
N SUB TRANSFORMER CIRCUIT (FOR GC)



M AC TRANSFORMER CIRCUIT (FOR GN)

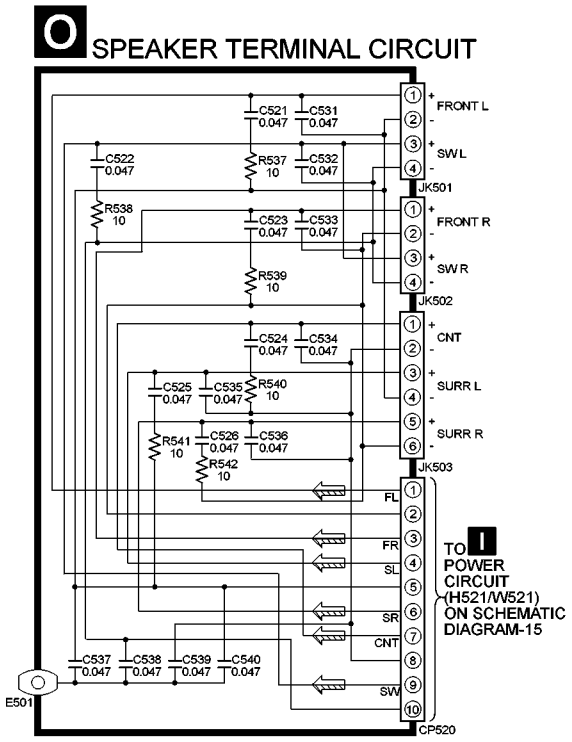


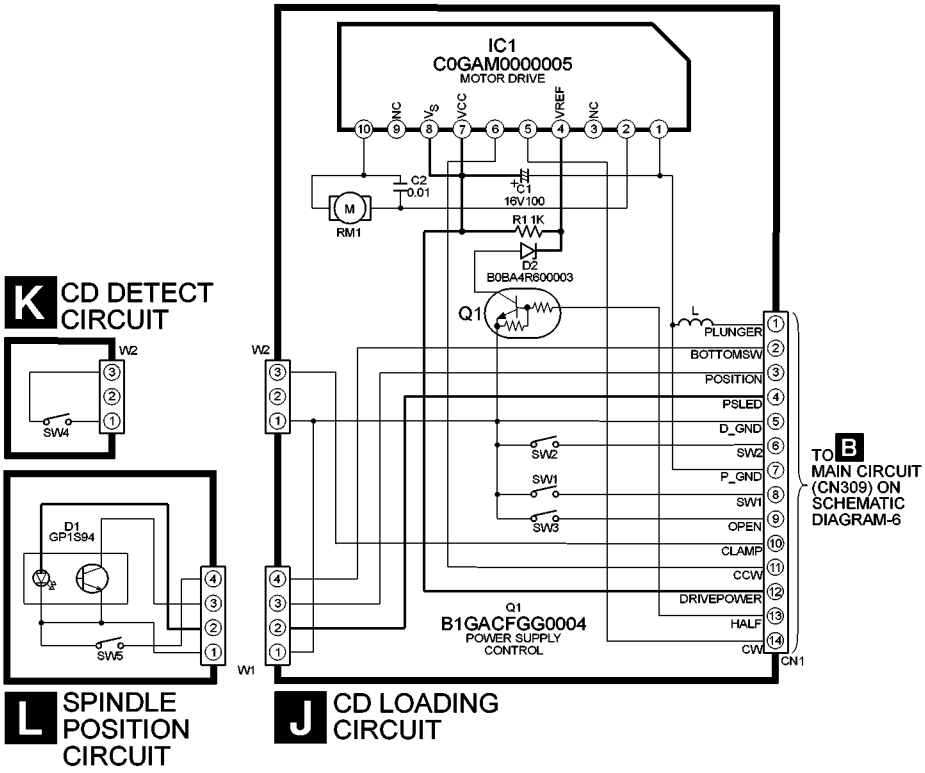
N SUB TRANSFORMER CIRCUIT (FOR GN)



SCHEMATIC DIAGRAM - 17

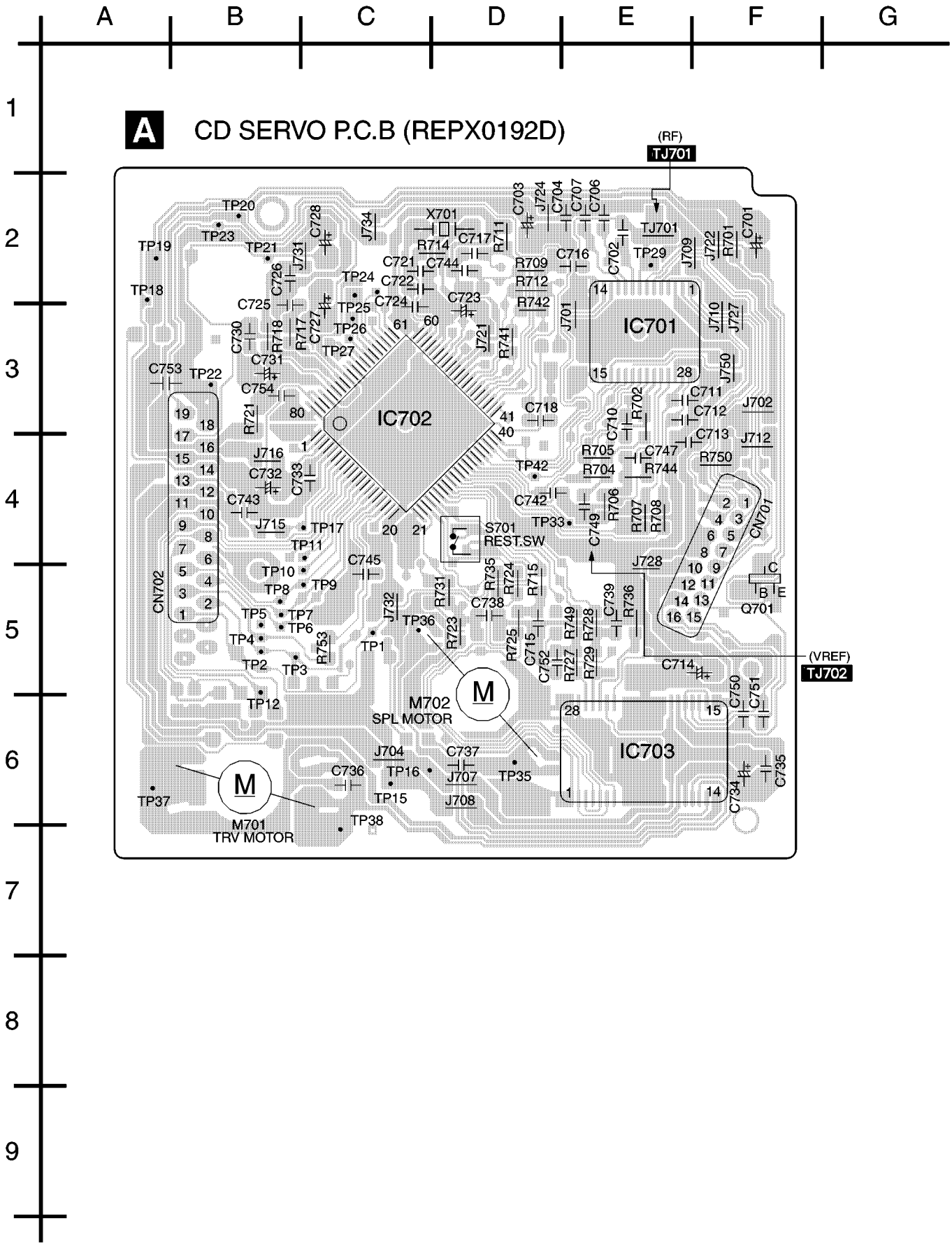
—— : +B SIGNAL LINE ⇨ : MAIN SIGNAL LINE



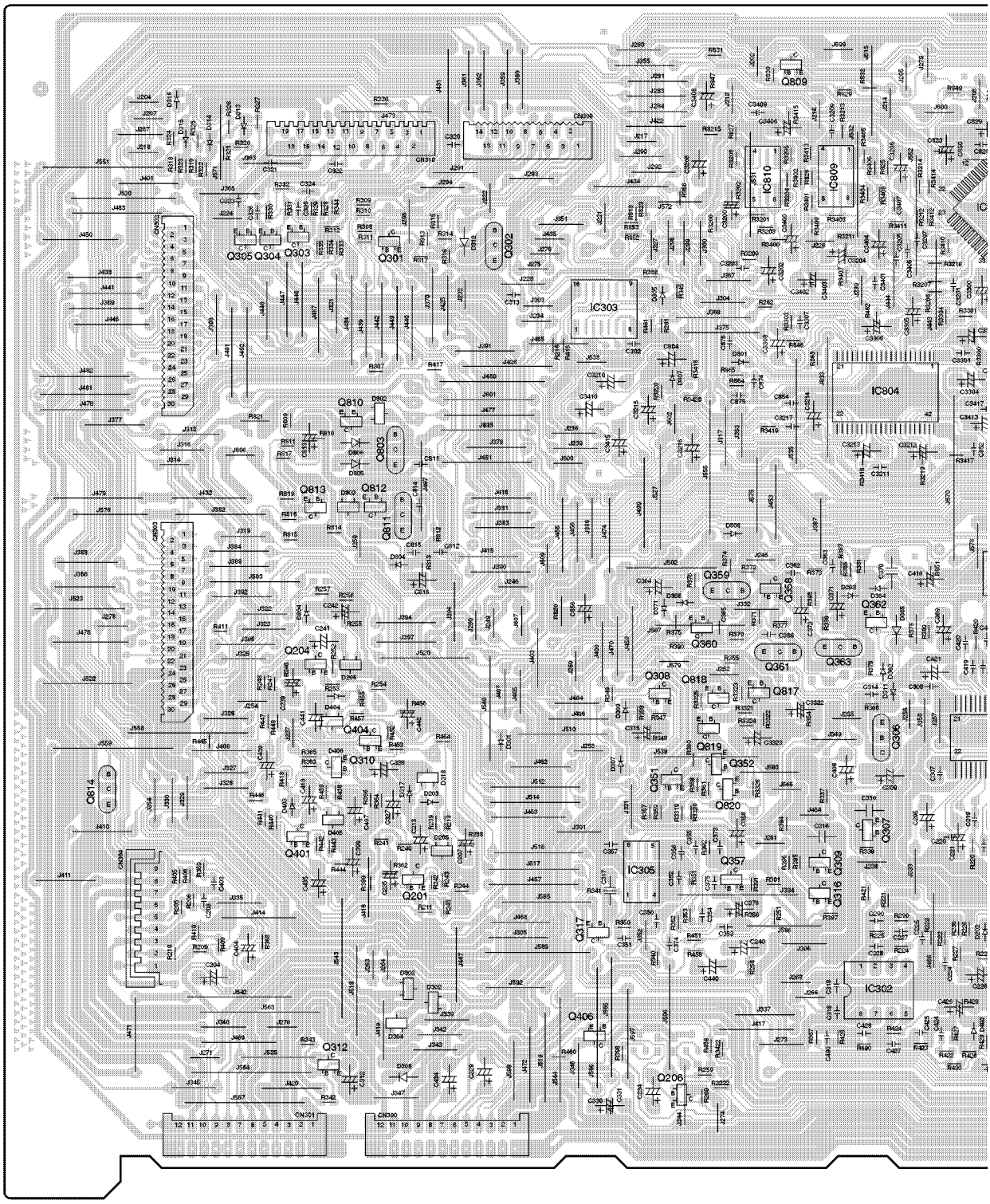


17 Printed Circuit Board

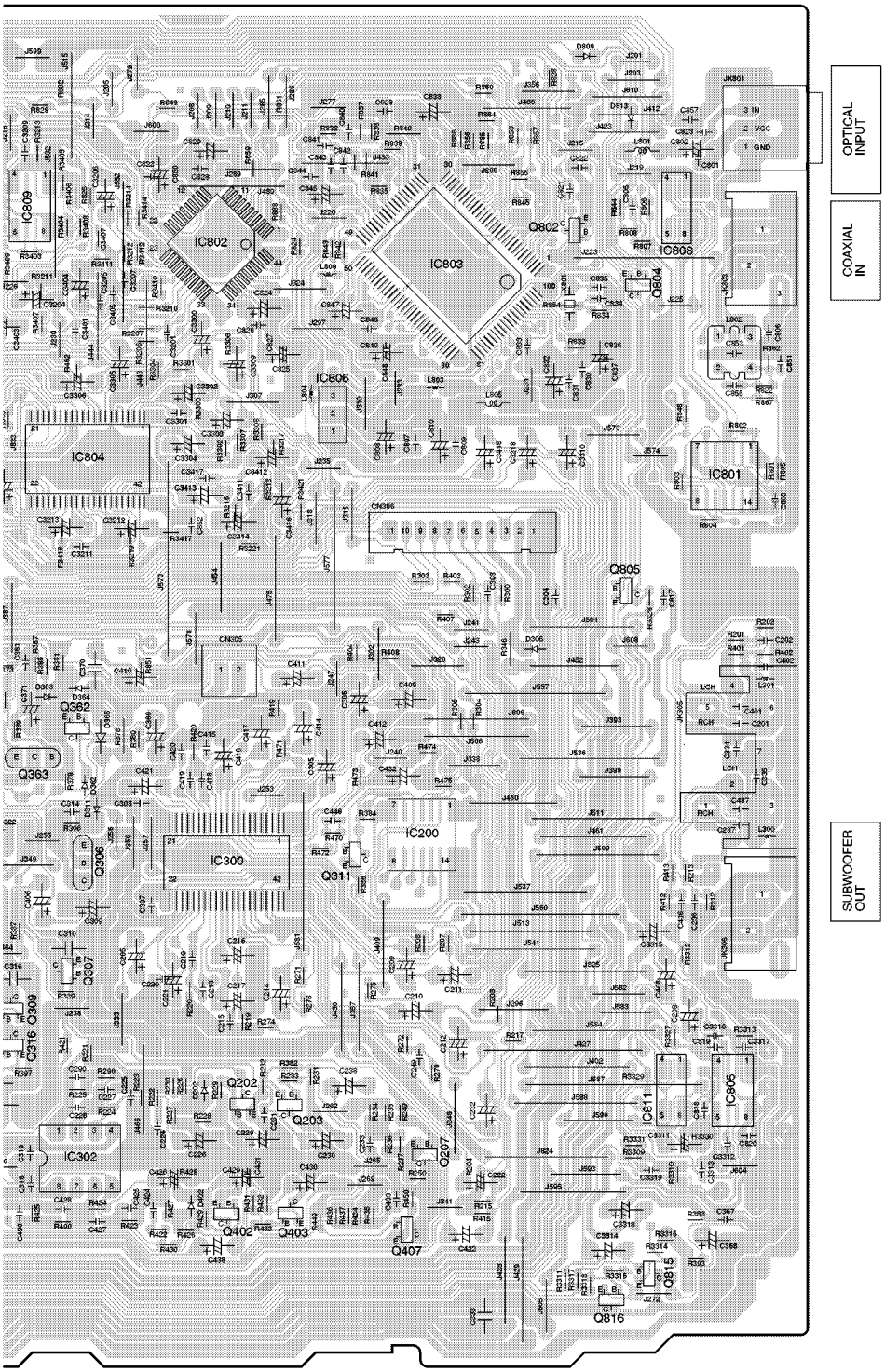
Note: Circuit board diagrams may be modified at any time with the development of new technology.



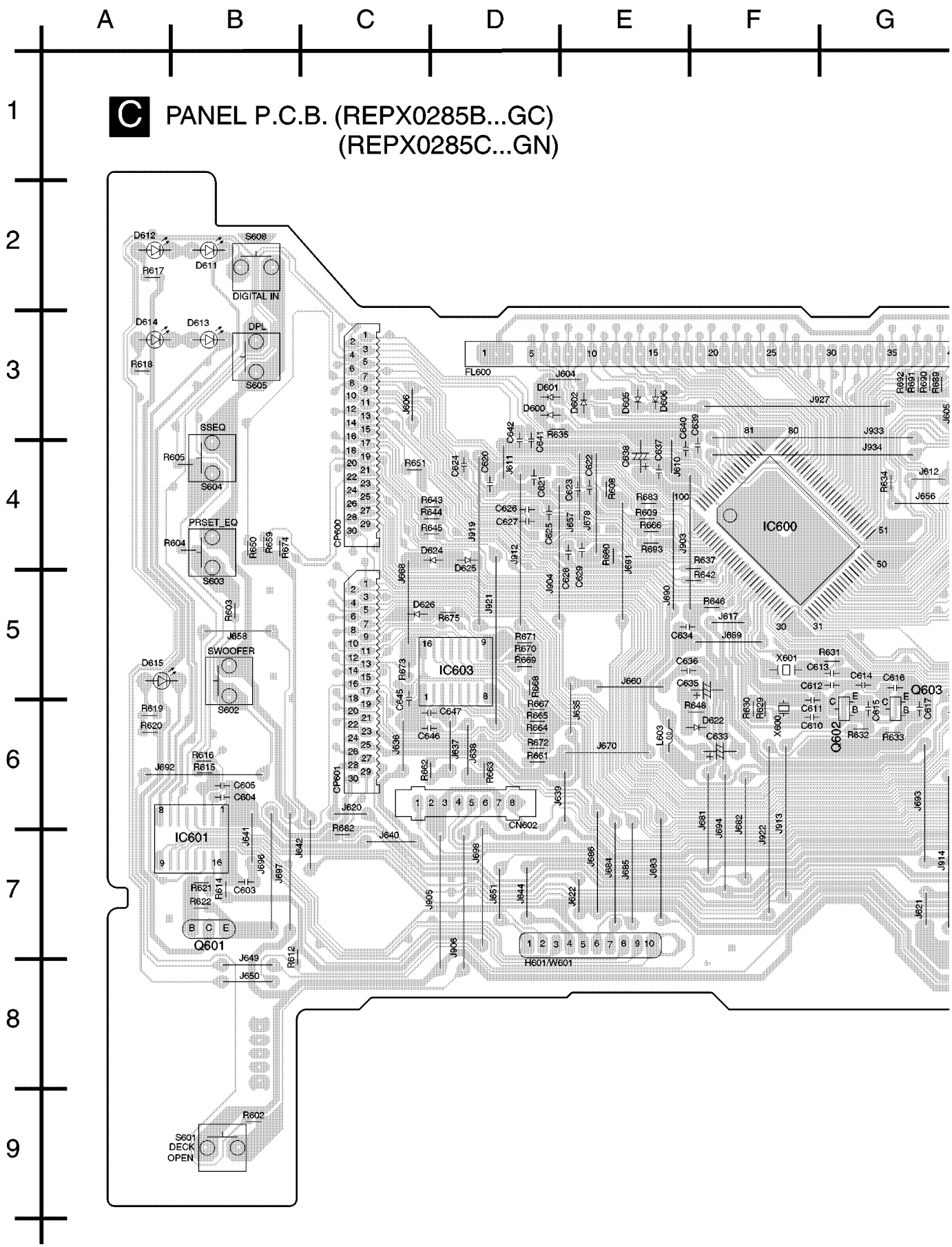
B MAIN / TUNER P.C.B. (REPX0286B)

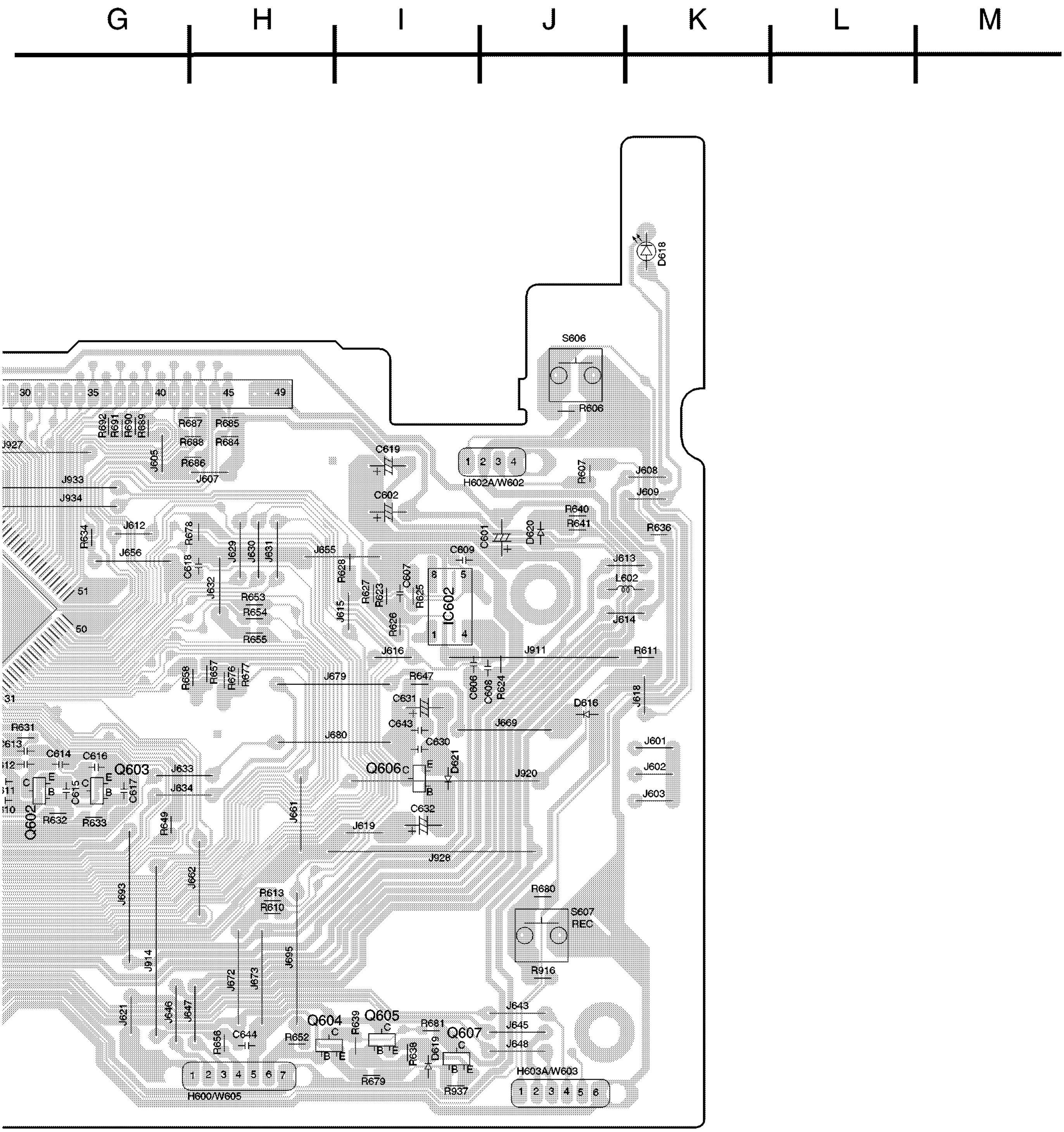


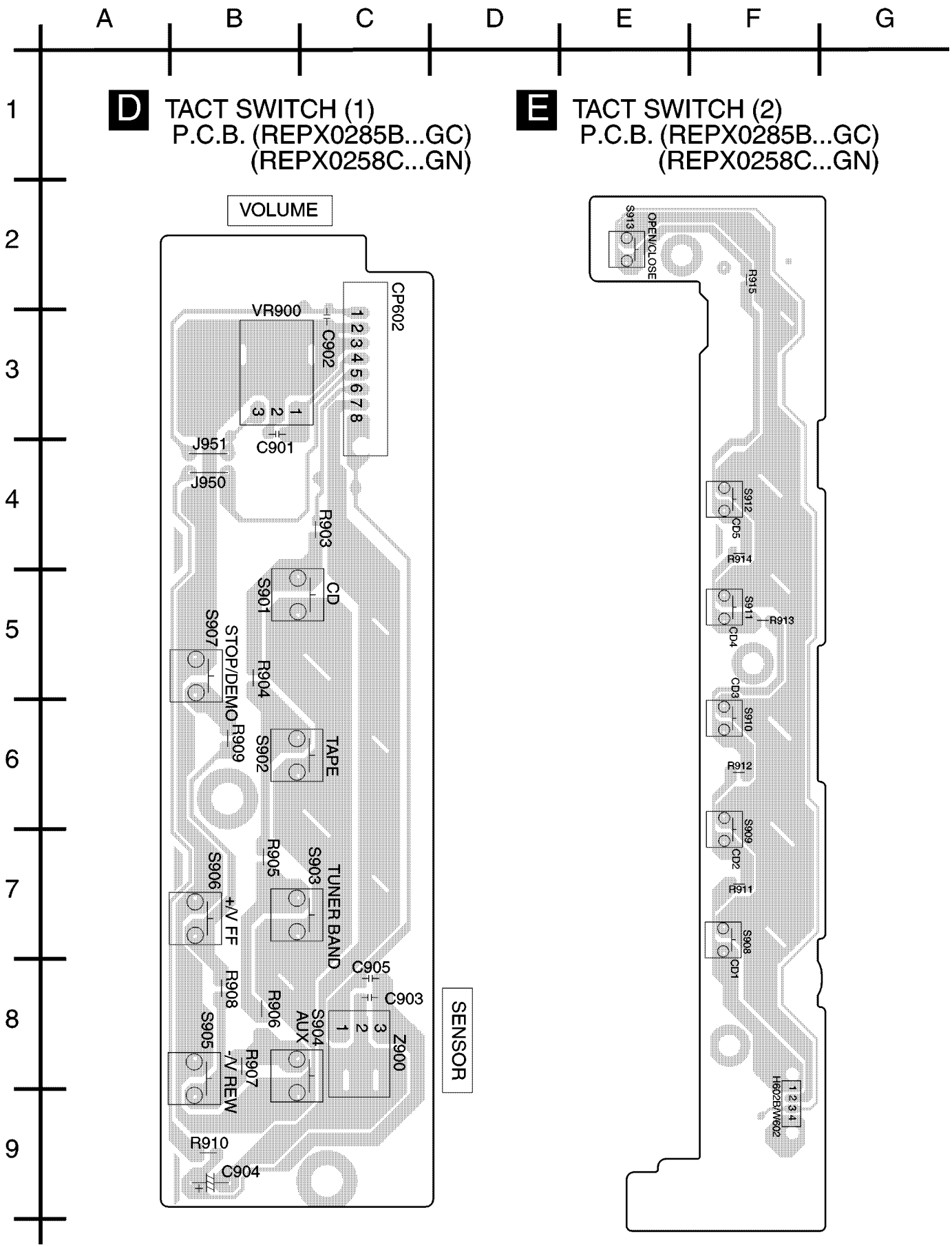
G H I J K L M


OPTICAL INPUT
COAXIAL IN
SUBWOOFER OUT
IC802
IC803
IC804
IC806
IC808
IC801
IC200
IC300
IC302
IC309
IC811
IC905
Q802
Q804
Q805
Q362
Q363
Q306
Q307
Q309
Q316
Q202
Q203
Q207
Q402
Q403
Q407
Q311
Q815
Q816

C PANEL P.C.B. (REPX0285B...GC) (REPX0285C...GN)



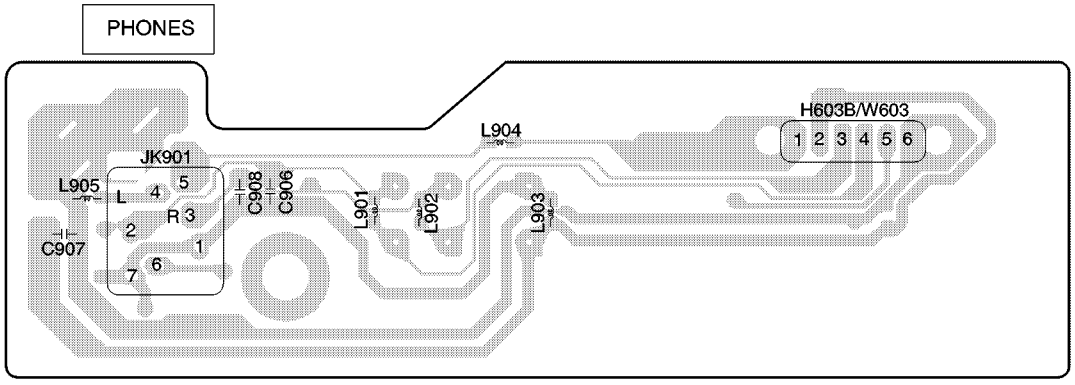

G
H
I
J
K
L
M
D618
S606
R606
H602A/W602
1 2 3 4
C619
C602
R607
J608
J609
R640
R641
R636
C601
D620
C609
J613
L602
J614
IC602
8 5 1 4
C607
R625
R623
R627
R628
J615
R626
J616
J911
R611
J655
30 35 40 45 49
R692 R691 R690 R689
R687 R685
R688 R684
R686
J605
J607
J927
J933
J934
J612
R678
J629 J630 J631
R634
J656
C618
J632
R653
R654
R655
51
50
31
R658 R657 R676 R677
J679
R647
C606 C608 R624
C631
D616
J618
C643
J669
J680
C630
J601
J602
J603
Q606
D621
J920
C632
J619
J928
R631
C613
C614
C616
Q603
Q602
C615
C617
R632
R633
J633
J634
J661
R649
J662
J693
R613
R610
R680
S607
REC
R916
J914
J695
J672
J673
J621
J646
J647
R656
C644
Q604
R652
R639
Q605
R638
D619
R681
Q607
J643
J645
J648
R679
R937
H603A/W603
1 2 3 4 5 6
1 2 3 4 5 6 7
H600/W605


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
D TACT SWITCH (1)
P.C.B. (REPX0285B...GC)
(REPX0258C...GN)
E TACT SWITCH (2)
P.C.B. (REPX0285B...GC)
(REPX0258C...GN)
VOLUME
CP602
VR900
C902
C901
J951
J950
R903
S901
CD
S907
STOP/DEMO
R904
S902
TAPE
R909
S906
+/V FF
R905
S903
TUNER BAND
C905
C903
R908
R906
S904
AUX
Z900
S905
-/V REW
R907
R910
C904
SENSOR
S913
OPEN/CLOSE
R915
S912
CD5
R914
S911
R913
CD4
CD3
S910
R912
S909
CD2
R911
S908
CD1
H602
RW602

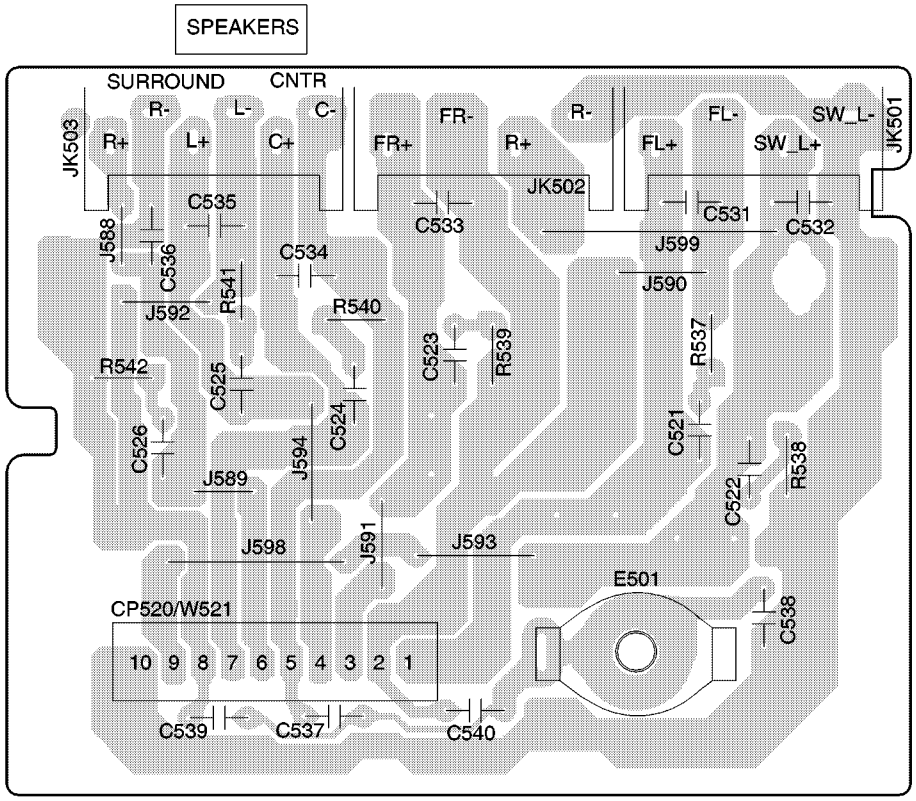
A B C D E F G

1 2 3 4 5 6 7 8 9

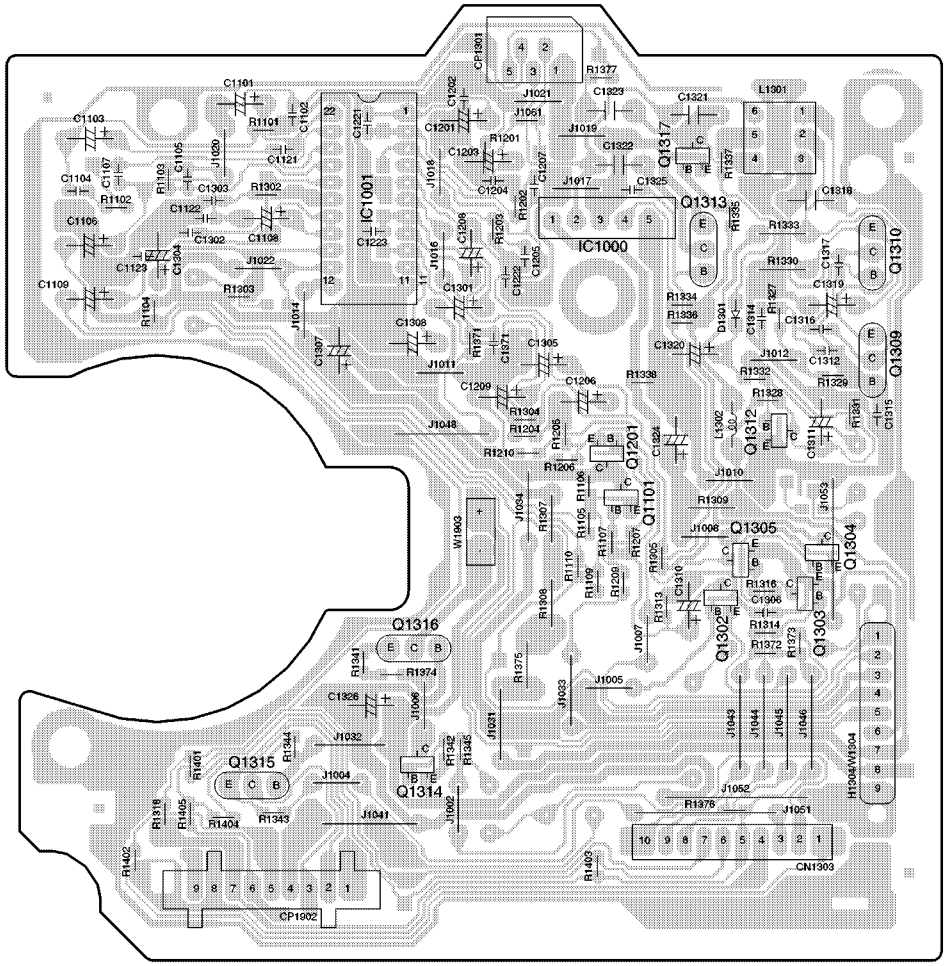
F HEADPHONE P.C.B. (REPX0285B...GC) (REPX0285C...GN)



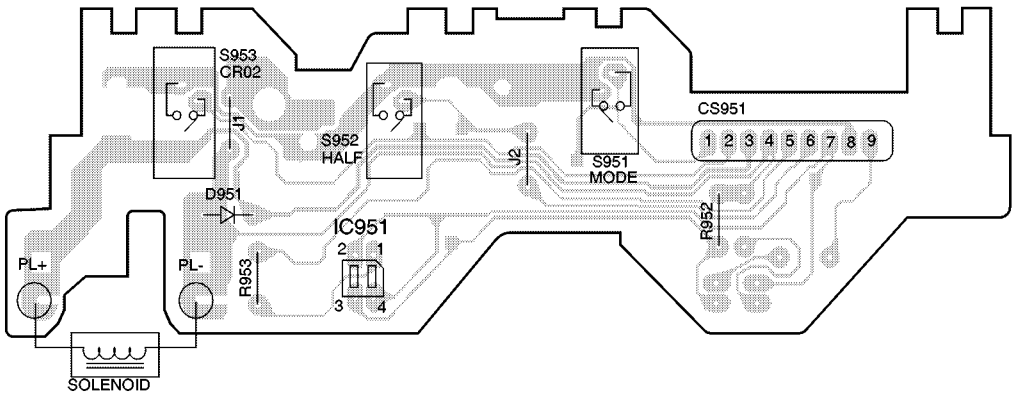
O SPEAKER TERMINAL P.C.B. (REPX0288B...GC) (REPX0288C...GN)



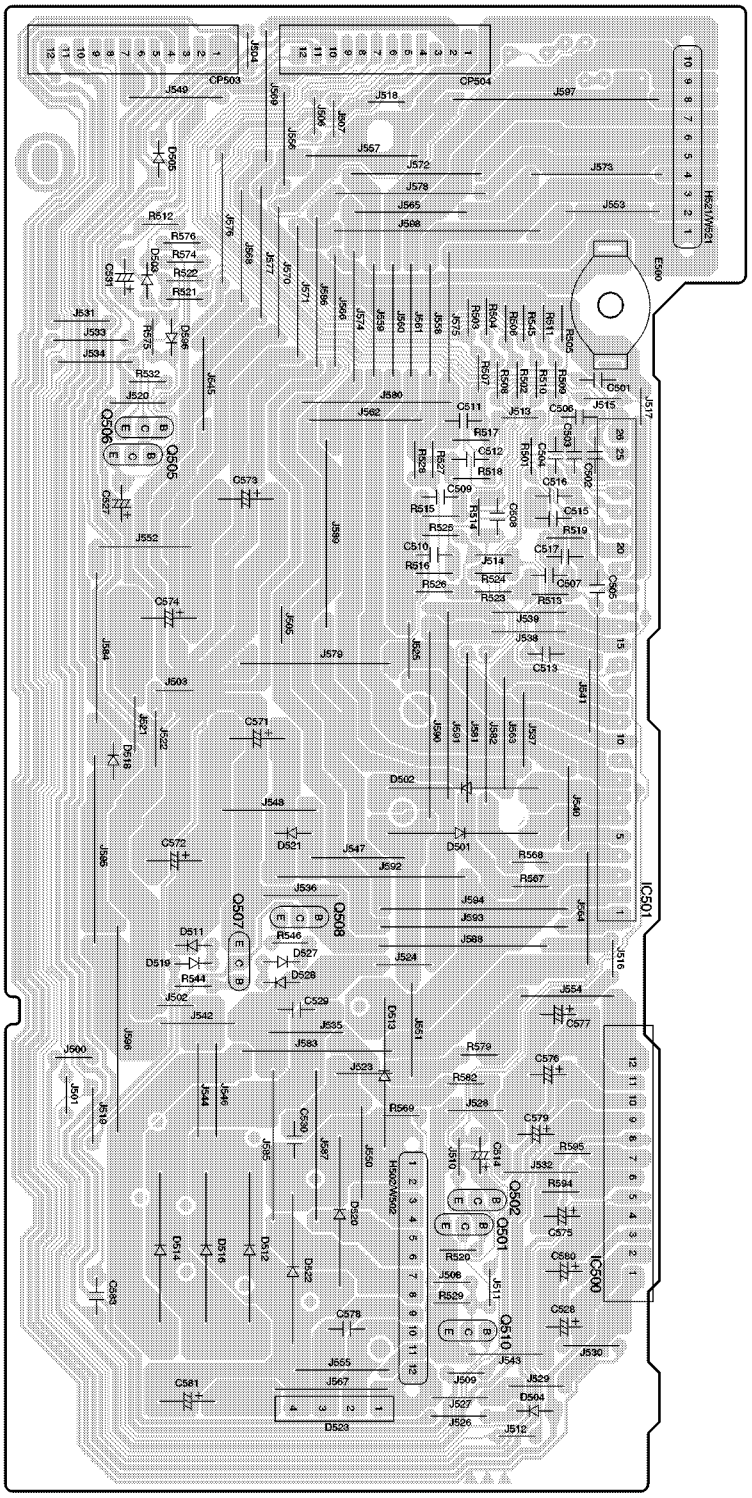
G DECK P.C.B. (REPX0304A)



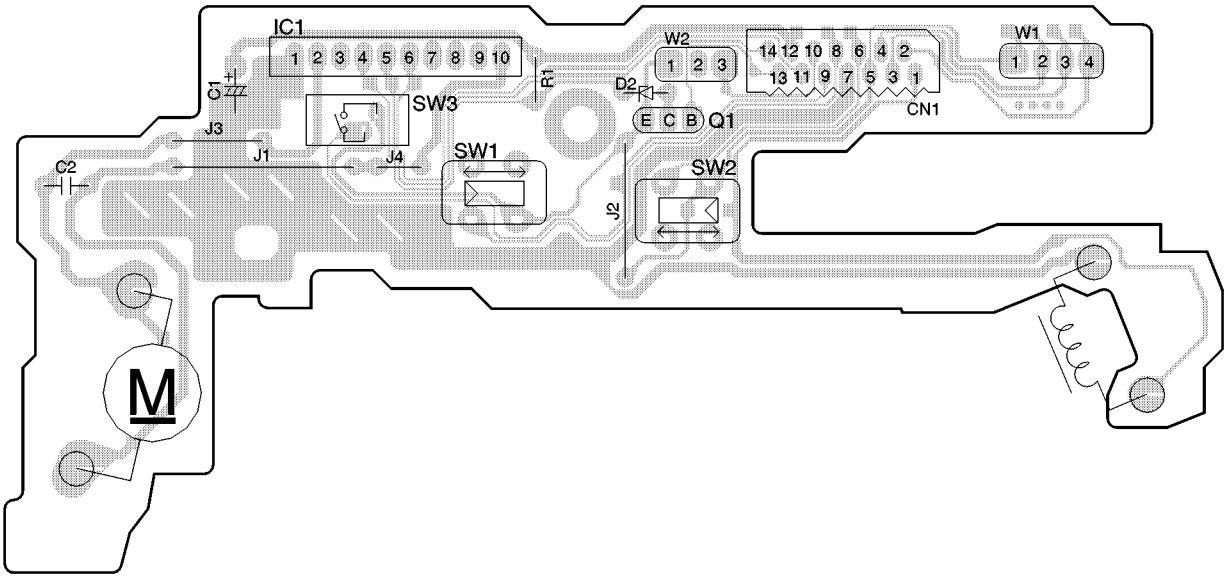
H MECHANISM P.C.B. (REPX0108G)



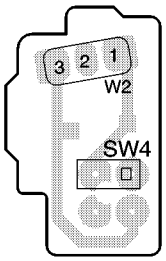
I POWER P.C.B. (REPX0284A)



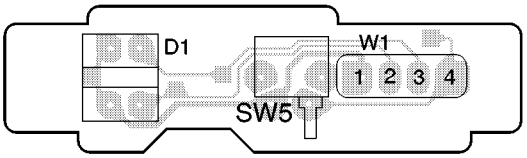
J CD LOADING P.C.B (REP2578A-N)



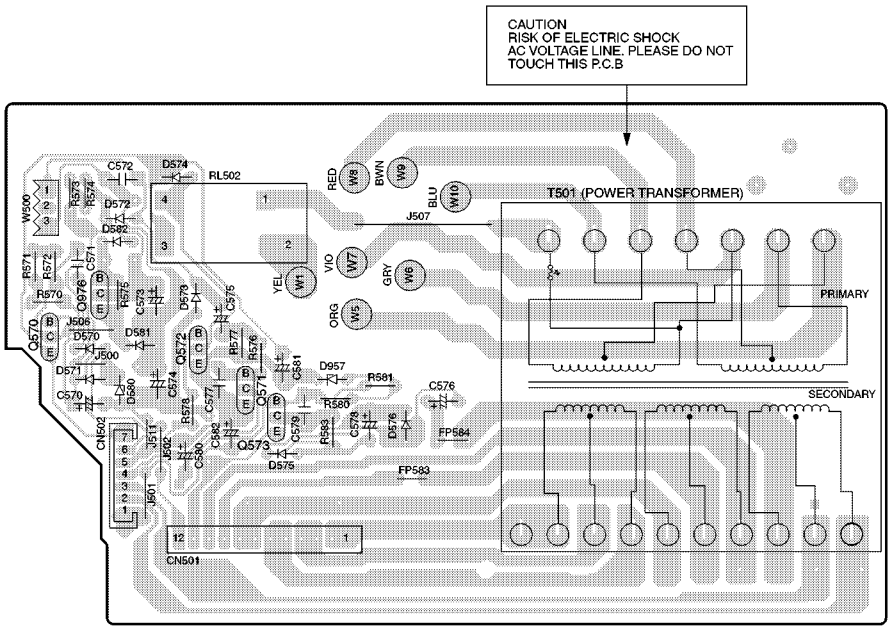
K CD DETECT P.C.B (REP2578A-N)



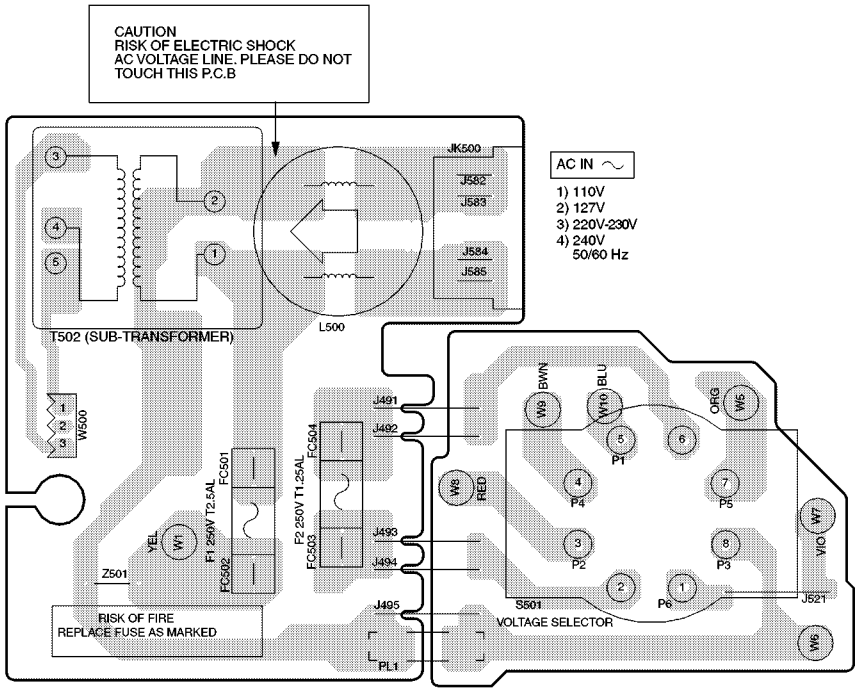
L SPINDLE POSITION P.C.B (REP2578A-N)



M AC TRANSFORMER P.C.B. (REPX0288B...GC)

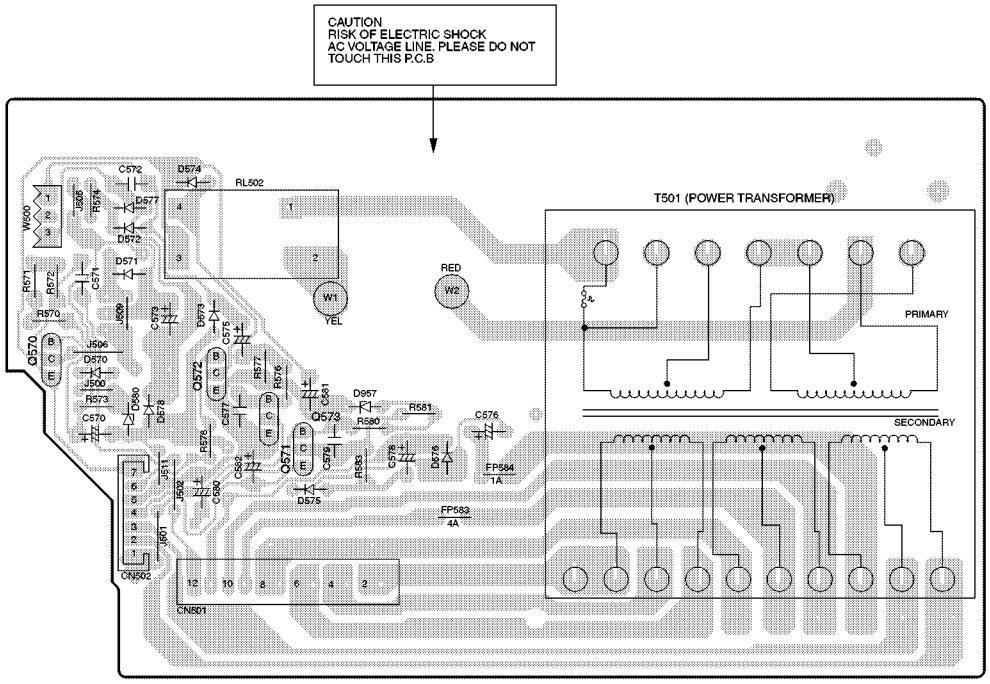


N SUB-TRANSFORMER P.C.B. (REPX0288B...GC)

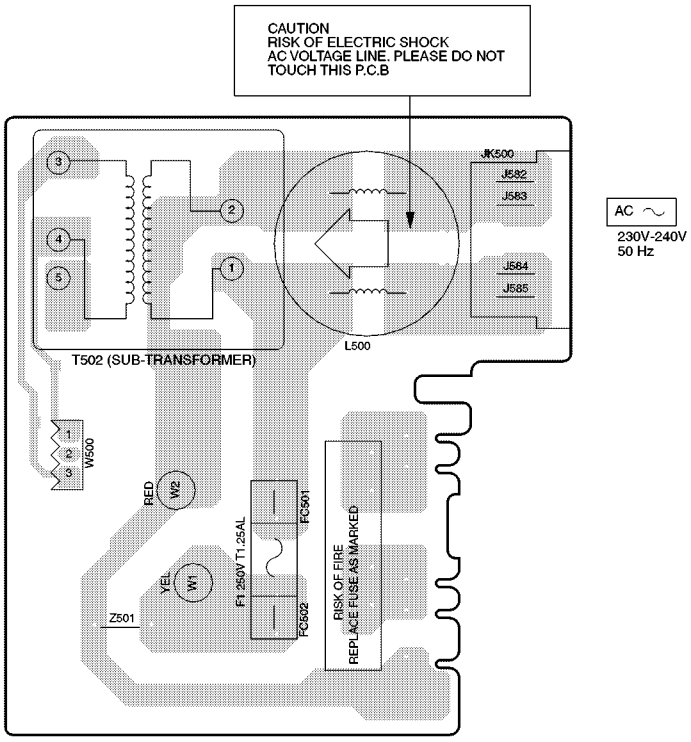


P VOLTAGE SELECTOR P.C.B. (REPX0288B...GC)

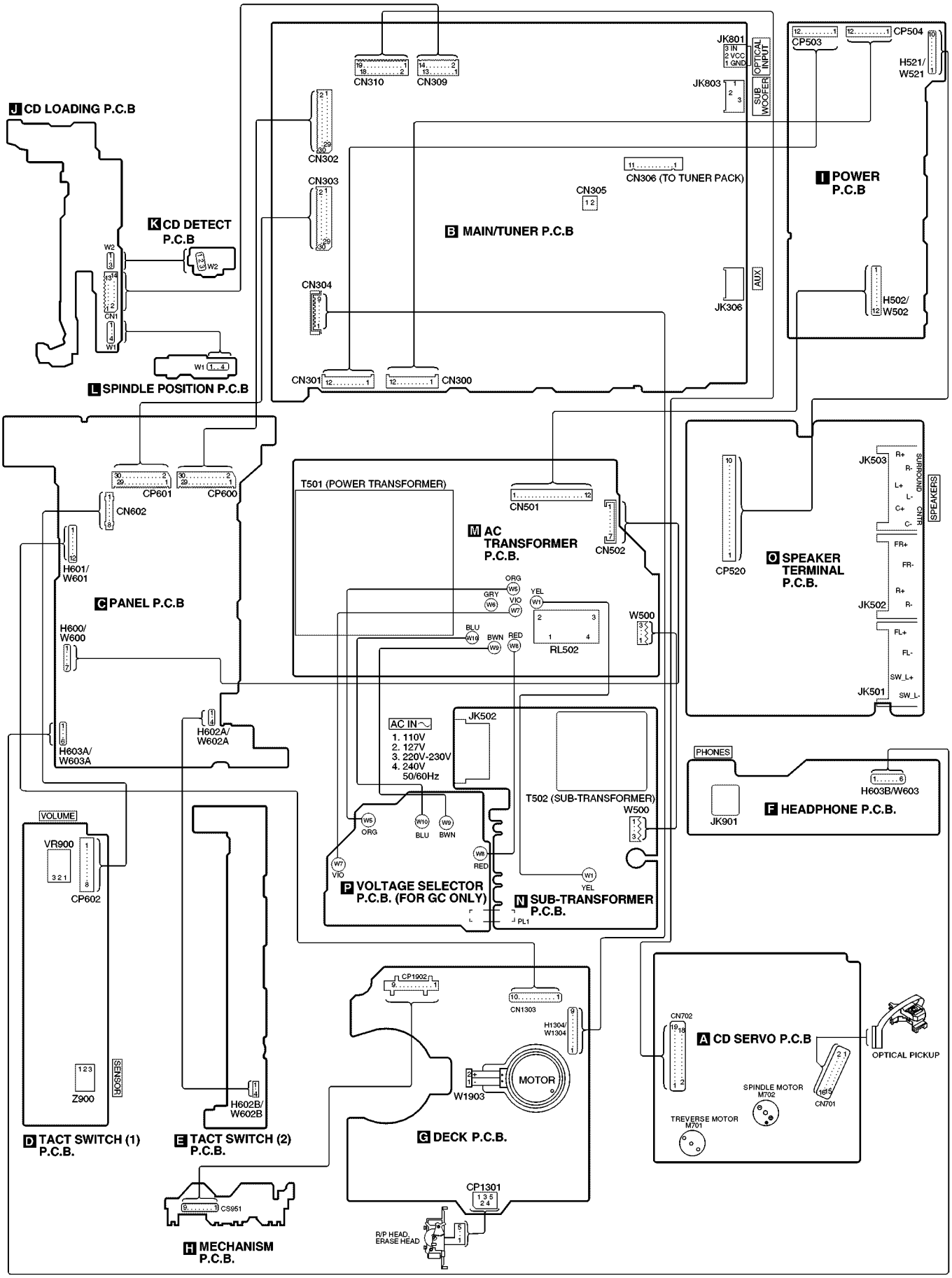
M AC TRANSFORMER P.C.B. (REPX0288C...GN)



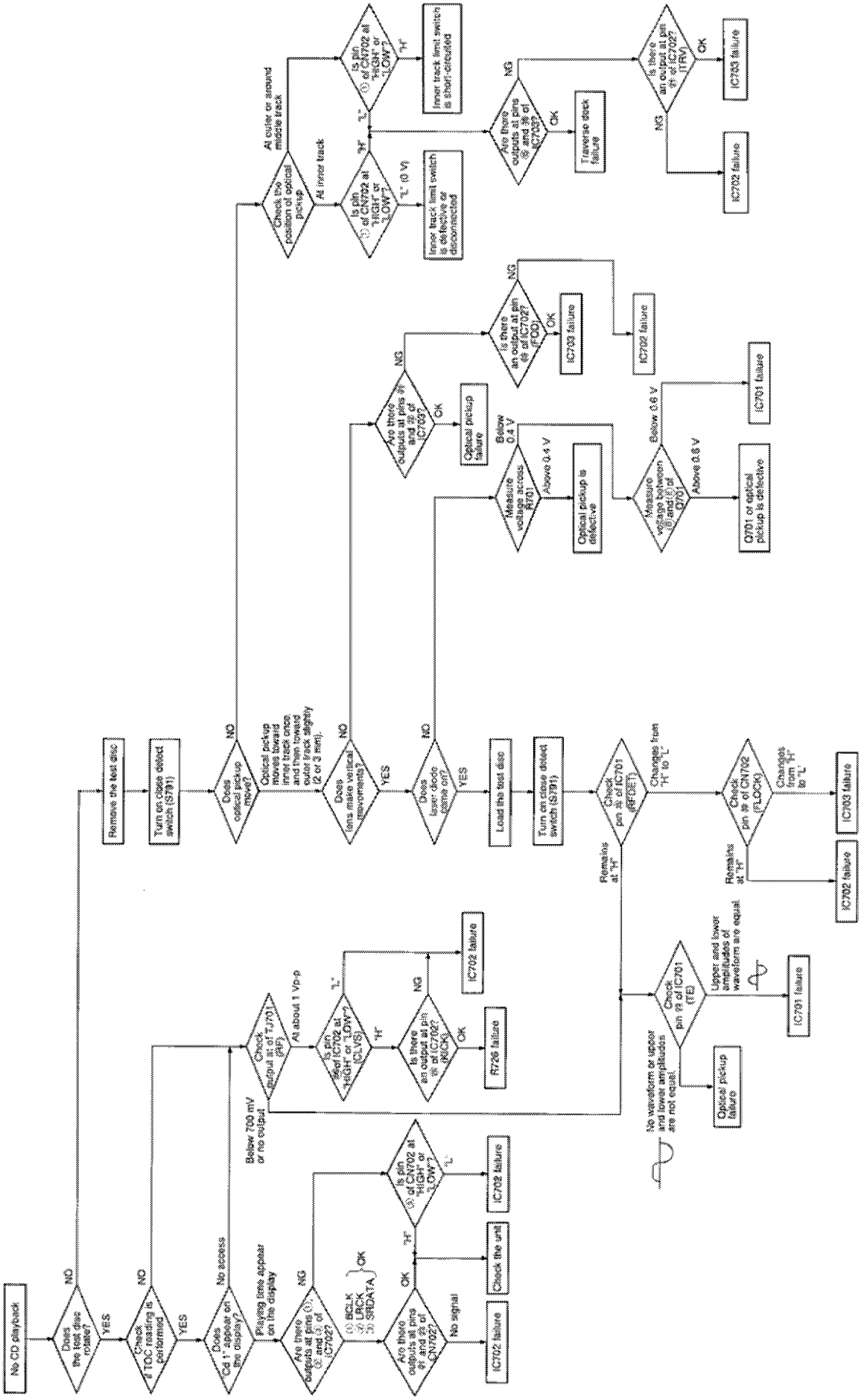
N SUB-TRANSFORMER P.C.B. (REPX0288C...GN)



18 Wiring Connection Diagram



19 Troubleshooting Guide



20 Parts Location and Replacement Parts List

Notes:

- Important safety notice:

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

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

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

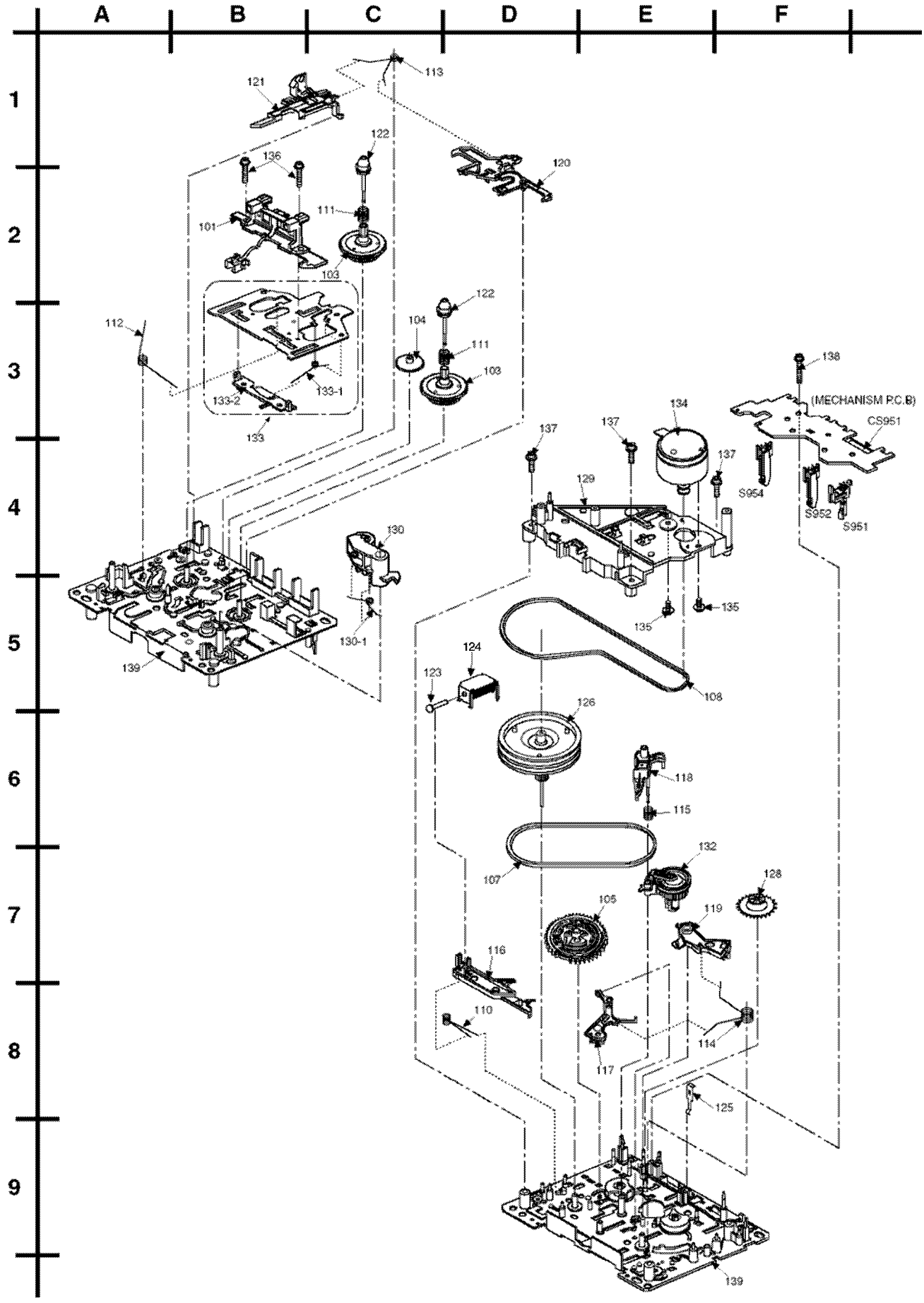
  Parts without these indications can be used for all areas.
- Warning: This product uses a laser diode. Refer to caution statements on "Precaution of Laser Diode".

  ACHTUNG:
  - Die Lasereinheit nicht zerlegen.
  - Die Lasereinheit darf nur gegen eine vom Hertsteller spezifizierte Einheit ausgetauscht werden.
- Capacitor values are in microfarads (μF) unless specified otherwise, P= Pico-farads (pF), F= Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).
- The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
- [M] Indicates in the Remarks columns indicates parts supplied by **MESA.**
- The "(SF)" mark denotes the standard part.
- Reference for O/I book languages are as follows:

Ar :	Arabic	Du :	Dutch	It :	Italian	Sp :	Spanish
Cf :	Canadian French	En :	English	Ko :	Korean	Sw :	Swedish
Cz :	Czech	Fr :	French	Po :	Polish	Co :	Traditional Chinese
Da :	Danish	Ge :	German	Ru :	Russian	Cn :	Simplified Chinese

20.1. Deck Mechanism (RAA4402-S)

20.1.1. Deck Mechanism Parts Location

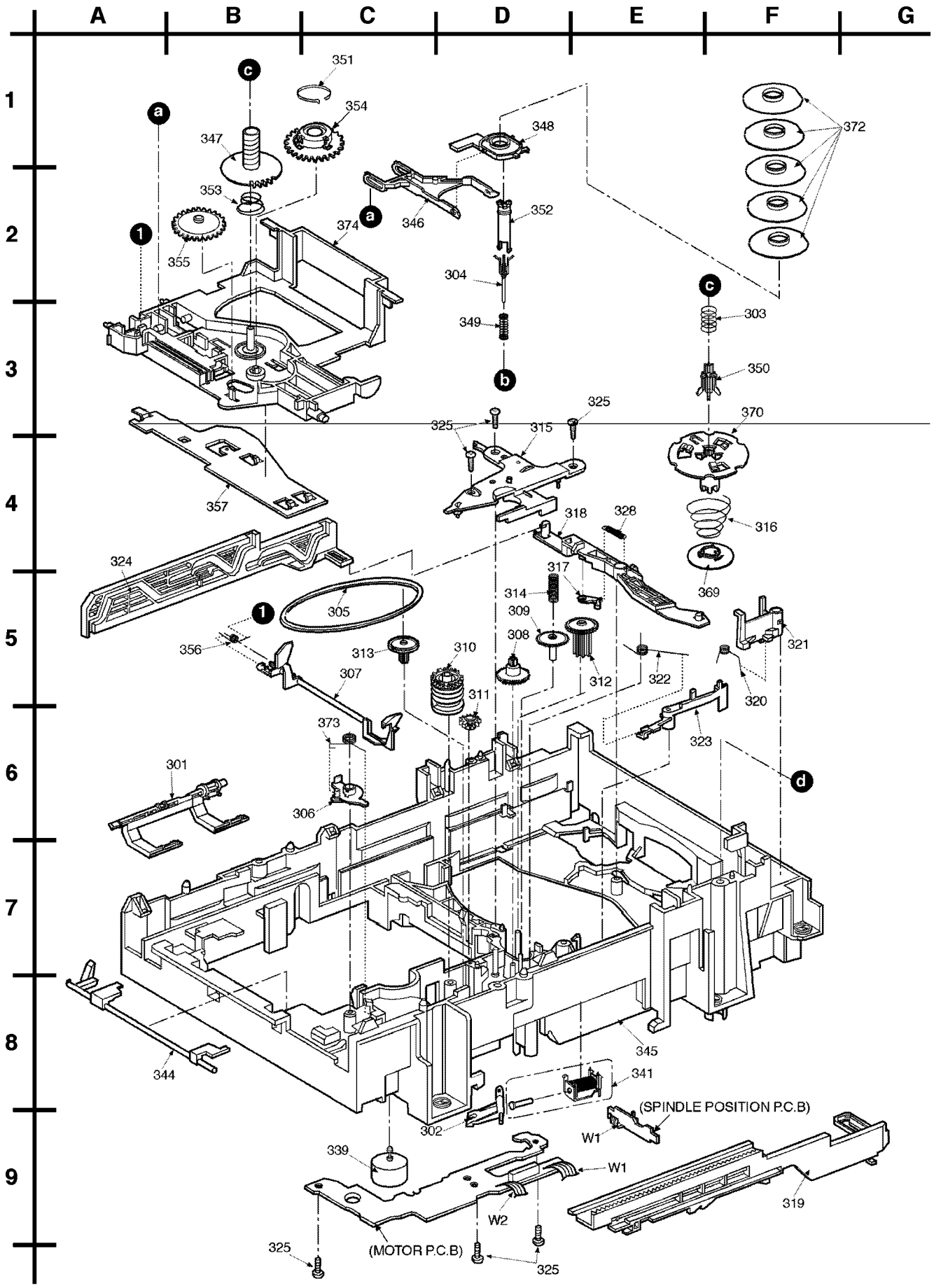


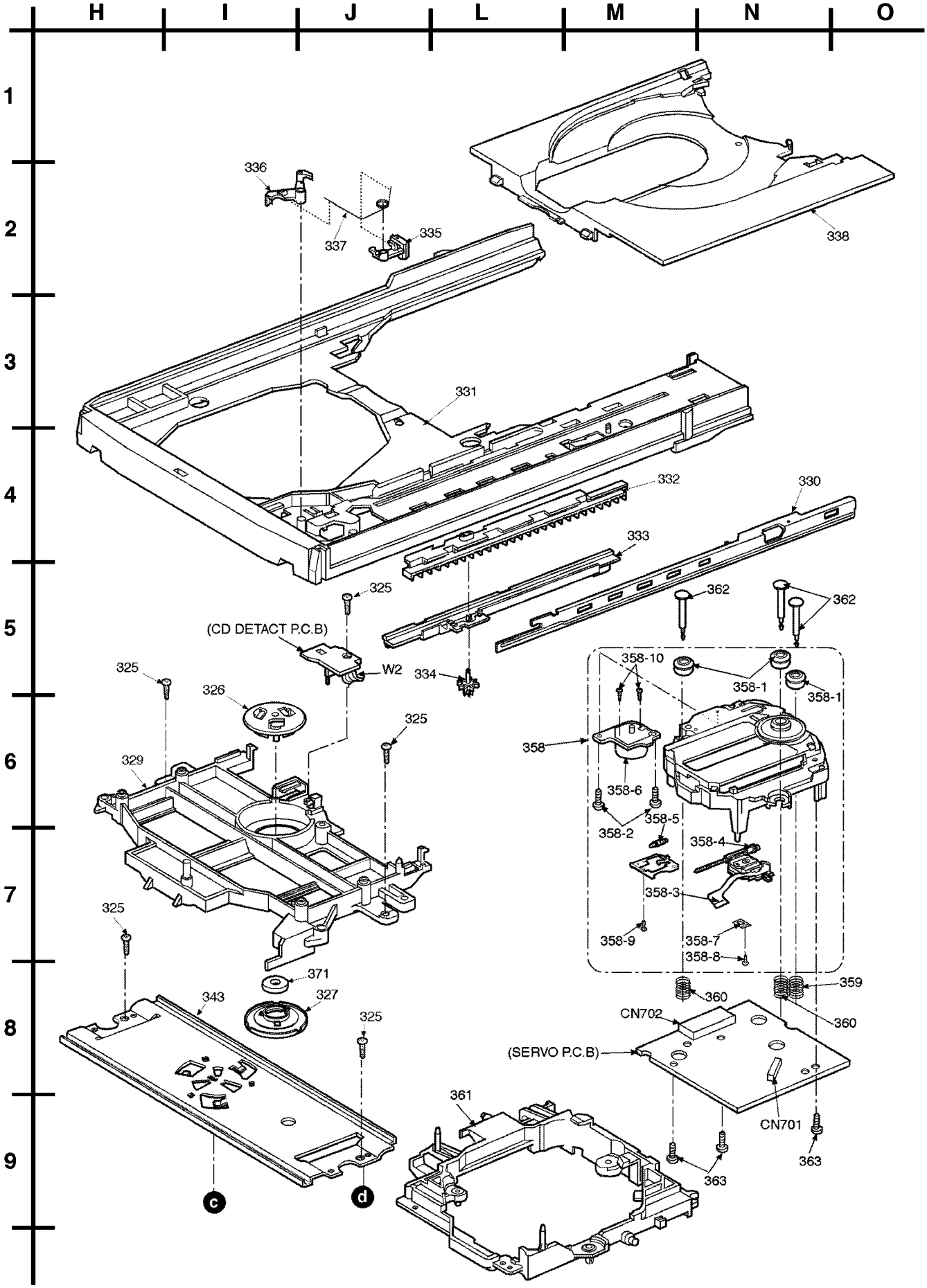
20.1.2. Deck Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	RED0067	R/P HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026	MAIN GEAR	[M]
107	RDV0033-4	WINDING BELT	[M]
108	RDV0064	CAPSTAN BELT	[M]
110	RMB0312	TRIGGER LEVER SPRING	[M]
111	RMB0400	REEL SPRING	[M]
112	RMB0403	HEAB PANEL SPRING	[M]
113	RMB0404	BRAKE ROD SPRING	[M]
114	RMB0406	FR LEVER SPRING	[M]
115	RMB0408	THRUST SPRING	[M]
116	RML0370	TRIGGER LEVER	[M]
117	RML0371	FR LEVER	[M]
118	RML0372	WINDING LEVER	[M]
119	RML0374	EJECT LEVER	[M]
120	RMM0131	BRAKE ROD	[M]
121	RMM0133	EJECT ROD	[M]
122	RMQ0519	REEL HUB	[M]
123	RMS0398-1	MOVING CORE	[M]
124	RXQ0470	PLUNGER	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0061	FLYWHEEL F ASSY	[M]
128	RXG0040	FF RELAY GEAR ASSY	[M]
129	RMK0283A-J	SUB-CHASSIS	[M]
130	RXL0124	PINCH ROLLER F ASSY	[M]
130-1	RMB0401	PINCH ARM SPRING F	[M]
132	RXL0126	WINDING ARM ASSY	[M]
133	RXQ0412	HEAD PANEL ASSY	[M]
133-1	RMB0405	FR ROD SPRING	[M]
133-2	RMM0132	FR ROD	[M]
134	REM0098	CAP MOTOR ASSY	[M]
135	RHD26022	MOTOR SCREW	[M]
136	XTW2+5L	HEAD BLOCK UNIT SCRE	[M]
137	XTW26+10S	SUB-CHASSIS SCREW	[M]
138	XYC2+JF17	PCB EARTH SCREW	[M]
139	RMK0294	MECHA CHASSIS	[M]

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

20.2.1. CD Loading Mechanism Parts Location

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(SERVO P.C.B)
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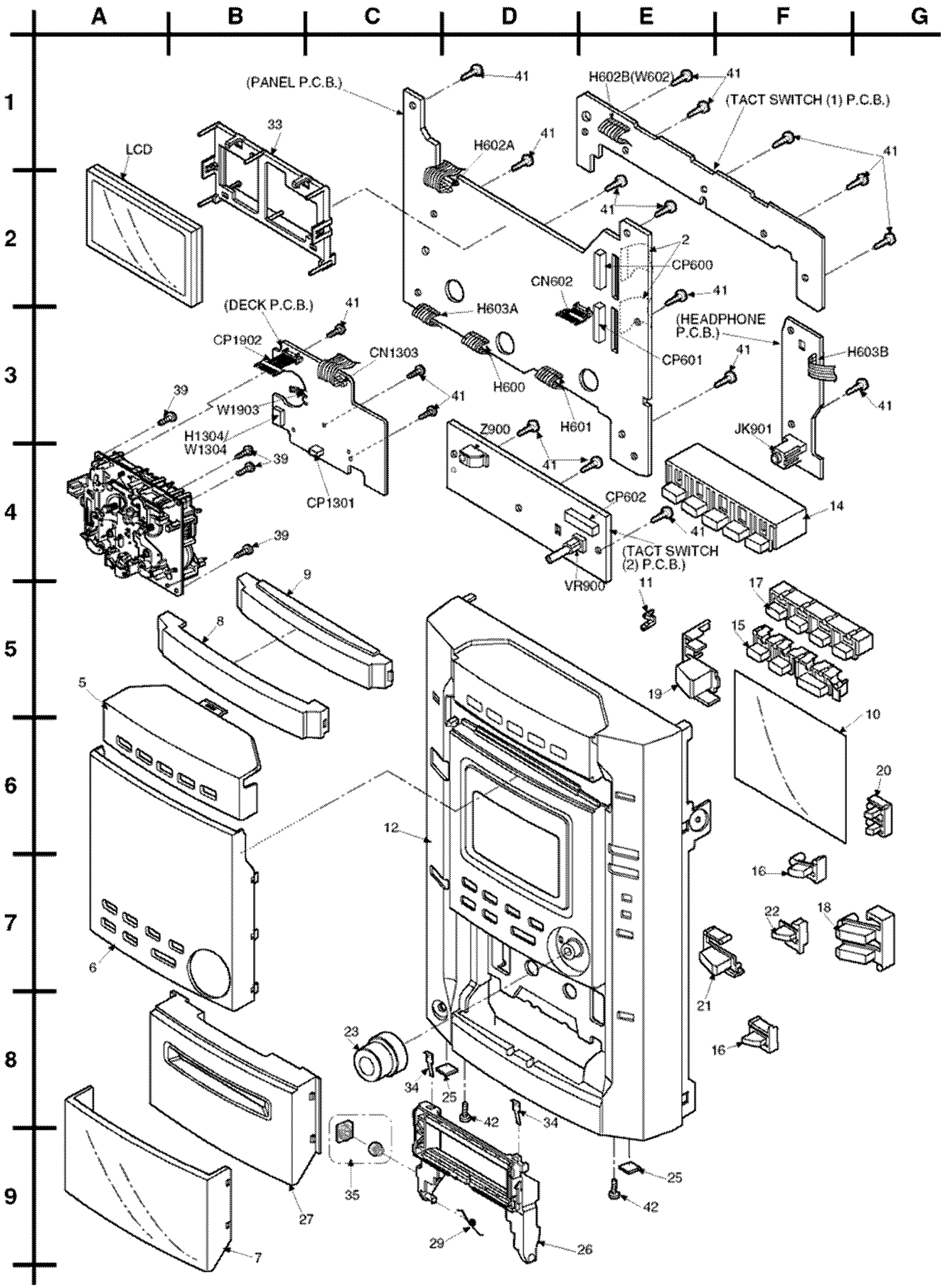
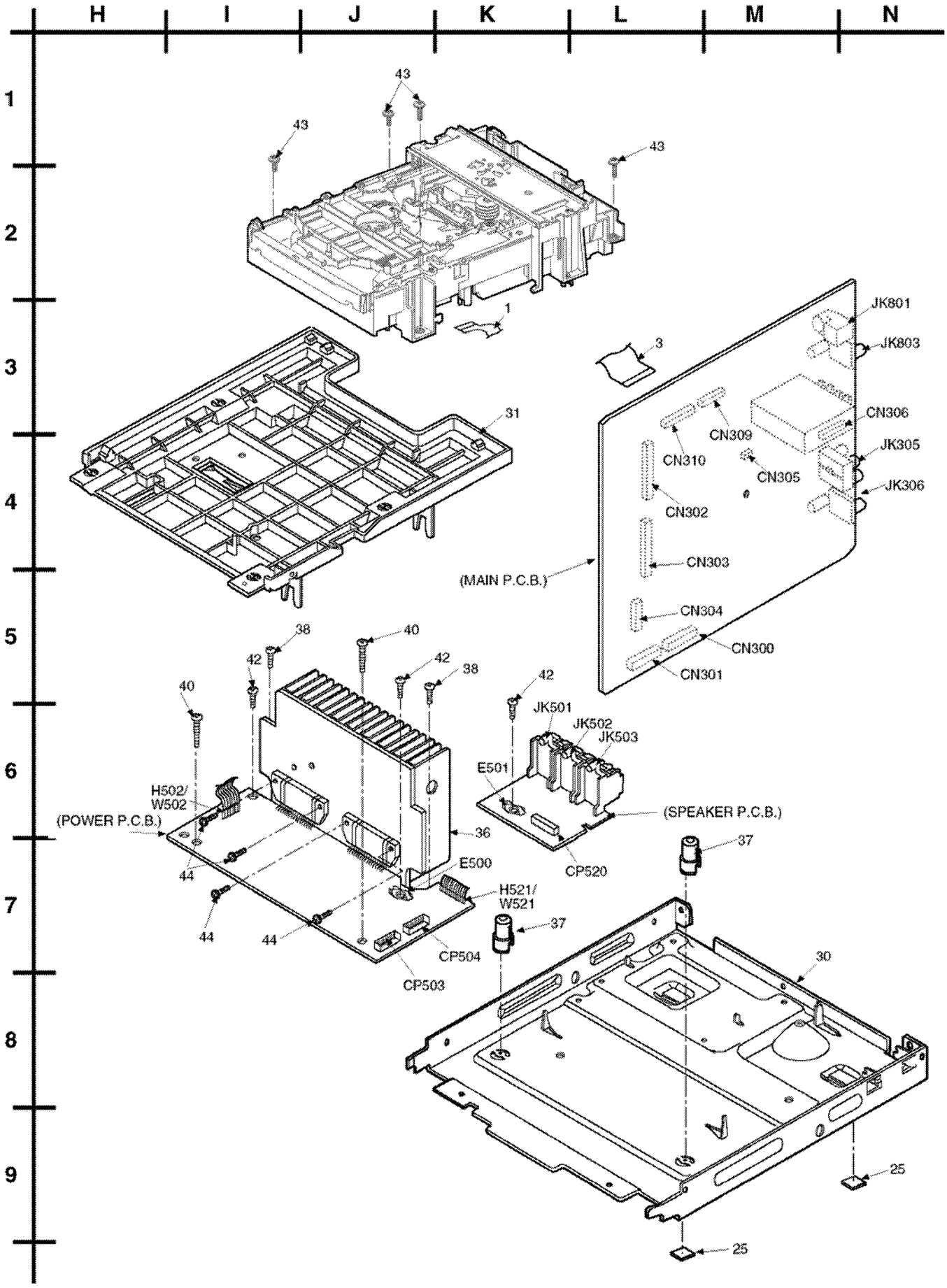
20.2.2. CD Loading Mechanism Parts List

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	SOLENOLD 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	RAE0152Z-3	TRAVERSE	[M]
358-1	SHGD113-1	FLOATING CUSHION	[M]
358-2	SNSD38	TRV MOTOR ASSY SCREW	[M]
358-3	RAF0150A-4S	50A OPTICAL PICKUP	[M]
358-4	RDG0247	DRIVE GEAR	[M]
358-5	RDG0248	RELAY GEAR	[M]
358-6	RXQ0339	TRAVERSE MOTOR ASSY	[M]
358-7	RXQ0304-1	NUT PLATE ASSY	[M]
358-8	XQN17+CG5	NUT PLATE ASSY SCREW	[M]
358-9	XQS2+A3FZ	SPINDLE MOTOR SCREW	[M]
358-10	XQS17+A35FZ	TRAVERSE MOTOR SCREW	[M]
359	RME0142	FLOATING SPRING A	[M]
360	RME0109	FLOATING SPRING B	[M]
361	RMR1124-K1	TRAVERSE CHASSIS	[M]
362	RMS0632	TRAVERSE PIN	[M]
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	RME0261	FRONT LOCK SPRING	[M]
374	RMQ0742	SPINDLE BASE	[M]

20.3. Cabinet

20.3.1. Cabinet Parts Location

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JK503
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W502
(POWER P.C.B.)
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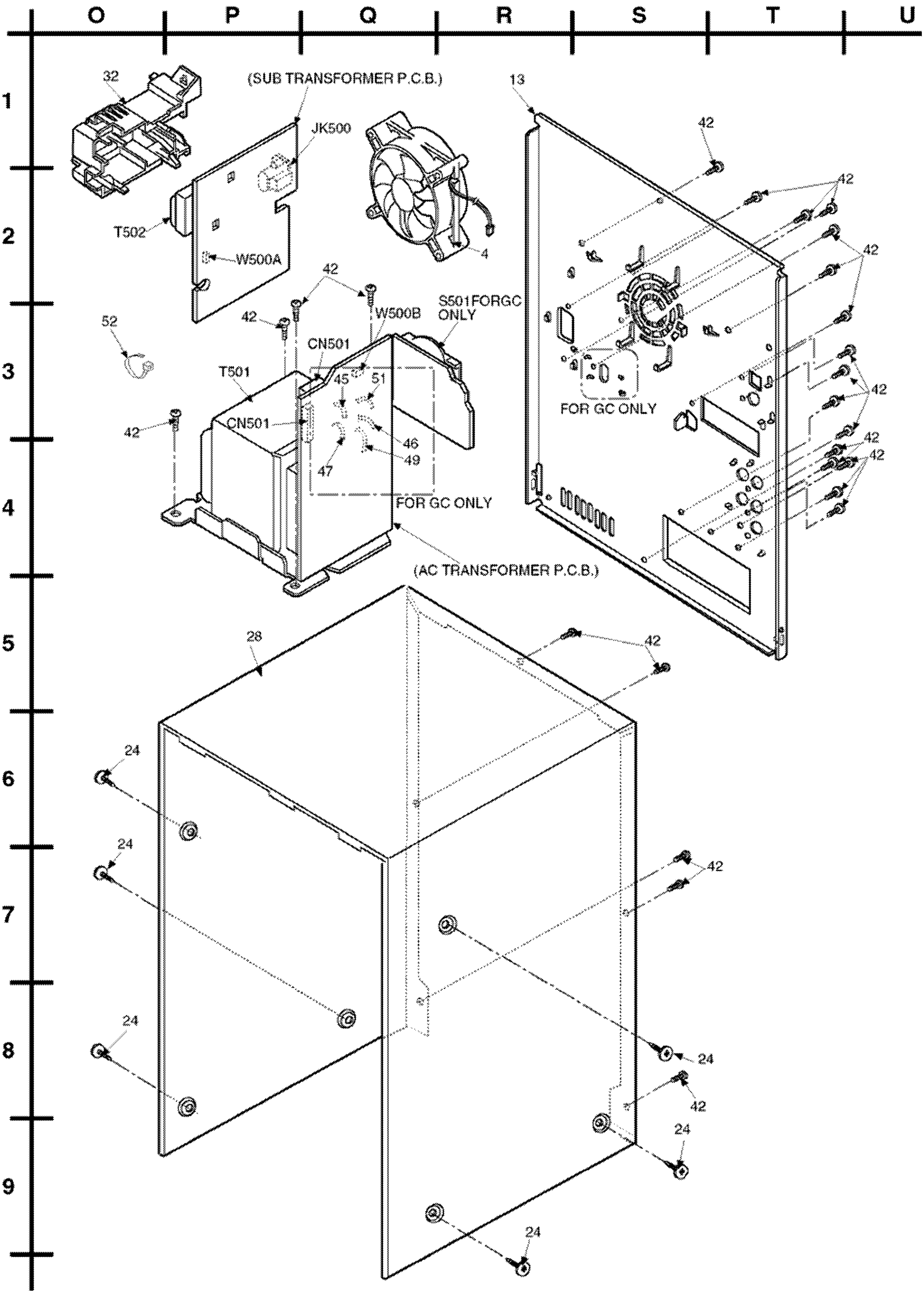
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S501FORGC ONLY
W500B
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CN501
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CN501
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FOR GC ONLY
(AC TRANSFORMER P.C.B.)
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20.3.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REEX0083	14P FFC WIRE	[M]
2	REEX0156	30P FFC WIRE	[M]
3	REEX0170	19P FFC WIRE	[M]
4	REM0072-3	FAN	[M]
5	RGK1342B-Q	TOP ORNAMENT	[M]
6	RGK1344A-Q	PANEL ORNAMENT	[M]
7	RGK1345A-Q	CASS. ORNAMENT	[M]
8	RGKX0106-H	CD LID ORNAMENT	[M]
9	RGKX0107-S	CD LID	[M]
10	RGKX0108	FL FILTER	[M]
11	RGL0538-W	LIGHTING CHIP	[M]
12	RGPX0061A-S	FRONT PANEL	[M]
13	RGRX0021A-C	REAR PANEL	[M]GN
13	RGRX0021B-A	REAR PANEL	[M]GC
14	RGU1956A-S	DISC BUTTON	[M]
15	RGU1957A-S	MAIN BUTTON	[M]
16	RGU1959-S	OPEN/CLOSE BUTTON	[M]
17	RGU1961A-Q	FUNCTION BUTTON	[M]
18	RGU1962A-Q	DPL BUTTON	[M]
19	RGUX0432A-S	POWER BUTTON	[M]
20	RGUX0433-S	EQ BUTTON	[M]
21	RGUX0434-S	RECORD BUTTON	[M]
22	RGUX0435-Q	S-WOOFER BUTTON	[M]
23	RGW0361-S	MAIN VOLUME KNOB	[M]
24	RHD30002-H	SCREW	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
25	RKA0059-K	LEG RUBBER	[M]
26	RKF0585-K2J	CASS HOLDER (L)	[M]
27	RKF0615-S	CASSETTE LID	[M]
28	RKM0433B-S1	TOP CABINET	[M]
29	RMB0474	CASS OPEN SPRING	[M]
30	RMK0479-1	BOTTOM CHASSIS	[M]
31	RMKX0059	CD CHASSIS	[M]
32	RMNX0029C-A	SUB TRANS HOLDER	[M]
33	RMNX0066	FL HOLDER	[M]
34	RUS757ZAA	CASSETTE HALF SPRING	[M]
35	RXG0049	DAMPER GEAR UNIT	[M]
36	RXXX0032	HEAT SINK UNIT	[M]
37	SHE187-6J	PCB SUPPORT	[M]
38	XTB3+10J	SCREW	[M]
39	XTB3+10JFZ	SCREW	[M]
40	XTB3+20J	SCREW	[M]
41	XTBS26+10J	SCREW	[M]
42	XTBS3+8JFZ1	SCREW	[M]
43	XTW3+12T	SCREW	[M]
44	XTW3+15T	SCREW	[M]
45	REE0971	WIRE (YELLOW)	[M]GC
46	REE0972	WIRE (VIOLET)	[M]GC
47	REE0973	WIRE (BROWN)	[M]GC
49	REEX0057	WIRE (ORANGE)	[M]GC
51	REEX0086	WIRE (RED)	[M]GC
52	SHR301	LEAD CLAMPER	[M]

20.4. Electrical Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REPX0192D	CD SERVO P.C.B.	[M] (RTL)
	REPX0286B	MAIN/ TUNER P.C.B.	[M] (RTL)
	REPX0285B	PANEL P.C.B.	[M] GC(RTL)
	REPX0285C	PANEL P.C.B.	[M] GN(RTL)
	REPX0285B	TACT SWITCH (1) P.C.B.	[M] GC(RTL)
	REPX0258C	TACT SWITCH (1) P.C.B.	[M] GN(RTL)
	REPX0285B	TACT SWITCH (2) P.C.B.	[M] GC(RTL)
	REPX0258C	TACT SWITCH (2) P.C.B.	[M] GN(RTL)
	REPX0285B	HEADPHONE P.C.B.	[M] GC(RTL)
	REPX0285C	HEADPHONE P.C.B.	[M] GN(RTL)
	REPX0288B	SPEAKER TERMINAL P.C.B.	[M] GC(RTL)
	REPX0288C	SPEAKER TERMINAL P.C.B.	[M] GN(RTL)
	REPX0304A	DECK P.C.B.	[M] (RTL)
	REPX0108G	MECHANISM P.C.B.	[M] (RTL)
	REPX0284A	POWER P.C.B.	[M] (RTL)
	REP2578A-N	CD LOADING P.C.B.	[M] (RTL)
	REP2578A-N	CD DETECT P.C.B.	[M] (RTL)
	REP2578A-N	SPINDLE POSITION P.C.B.	[M] (RTL)
	REPX0288B	AC TRANSFORMER P.C.B.	[M] GC(RTL)
	REPX0288B	SUB-TRANSFORMER P.C.B.	[M] GC(RTL)
	REPX0288B	VOLTAGE SELECTOR P.C.B.	[M] GC(RTL)
	REPX0288C	AC TRANSFORMER P.C.B.	[M] GN(RTL)
	REPX0288C	SUB-TRANSFORMER P.C.B.	[M] GN(RTL)
		INTEGRATED CIRCUITS	
IC1	C0GAM0000005	IC DRIVE	[M]
IC200	C0JBAS000008	IC QUAD ANALOG SW	[M]
IC300	C1BB00000654	IC ASP	[M]
IC302	C0AABB000117	IC OP-AMP (HP AMP)	[M]
IC303	C0JBAR000292	IC TRIPLE 2CH ANALOG MULTIPLEXOR	[M]
IC305	C0ABBB000067	IC DUAL OP AMP	[M]
IC500	C5BA00000105	IC VOLTAGE REGULATOR	[M] ⚠
IC501	RSN311W64B-P	IC HIC	[M] ⚠
IC600	C2BBGF000348	IC MICROPROCESSOR	[M]
IC601	C1BB00000574	IC I/O EXPANDER	[M]
IC603	C1BB00000574	IC I/O EXPANDER	[M]
IC701	AN8885SBE1	IC SERVO AMP	[M]
IC702	MN662790RSC	IC SERVO PROCESSOR	[M]
IC703	AN8739SBTE2	IC 4CH DRIVER	[M]
IC801	TC74HCU04AF	IC CMOS INVERTER	[M]
IC802	C0FBZK000005	IC AUDIO CODEC	[M]
IC803	C2HBZH000001	IC DSP	[M]
IC804	M62444FPE1	IC 4CH VOL	[M]
IC805	C0ABBB000067	IC DUAL UP AMP	[M]
IC806	UPC29M33HF	IC VOLTAGE STABILISER	[M] ⚠
IC808	C0JBAS000056	IC ANALOG SWITCH	[M]
IC809	C0ABBB000067	IC DUAL OP AMP	[M]
IC810	C0ABBB000067	IC DUAL OP AMP	[M]
IC811	C0JBAS000056	IC DUAL BILATERAL SWITCH	[M]
IC951	CNB13030R2AU	IC PHOTO INTERUPTOR	[M]
IC1000	C1AA00000612	IC ANALOG SW	[M]
IC1001	AN7326K	IC REC/PB	[M]
		TRANSISTORS	
Q1	B1GACFGG0004	TRANSISTOR	[M]
Q201	KTC3875GRTA	TRANSISTOR	[M]
Q202	KTC3875GRTA	TRANSISTOR	[M]
Q203	KTD1304TA	TRANSISTOR	[M]
Q204	KTC3875GRTA	TRANSISTOR	[M]
Q206	KTD1304TA	TRANSISTOR	[M]
Q207	KTD1304TA	TRANSISTOR	[M]
Q301	KRC102STA	TRANSISTOR	[M]
Q302	KTA12710YTA	TRANSISTOR	[M]
Q303	KRC101STA	TRANSISTOR	[M]
Q304	KRC101STA	TRANSISTOR	[M]
Q305	KRC101STA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q306	B1AAKD000009	TRANSISTOR	[M] ⚠
Q307	KRA102STA	TRANSISTOR	[M]
Q308	KRA102STA	TRANSISTOR	[M]
Q309	KRA102STA	TRANSISTOR	[M]
Q310	KTC3875GRTA	TRANSISTOR	[M]
Q311	KRA102STA	TRANSISTOR	[M]
Q312	KRC111STA	TRANSISTOR	[M]
Q316	KTD1304TA	TRANSISTOR	[M]
Q317	KRA102STA	TRANSISTOR	[M]
Q351	KTC3875GRTA	TRANSISTOR	[M]
Q352	KTA1504GRTA	TRANSISTOR	[M]
Q357	KTC3875GRTA	TRANSISTOR	[M]
Q358	B1ADCF000001	TRANSISTOR	[M]
Q359	2SD0592ARA	TRANSISTOR	[M]
Q360	B1ADCF000001	TRANSISTOR	[M]
Q361	2SD0592ARA	TRANSISTOR	[M]
Q362	B1ADCF000001	TRANSISTOR	[M]
Q363	KTC3199GRTA	TRANSISTOR	[M]
Q401	KTC3875GRTA	TRANSISTOR	[M]
Q402	KTC3875GRTA	TRANSISTOR	[M]
Q403	KTD1304TA	TRANSISTOR	[M]
Q404	KTC3875GRTA	TRANSISTOR	[M]
Q406	KTD1304TA	TRANSISTOR	[M]
Q407	KTD1304TA	TRANSISTOR	[M]
Q501	KTC3199GRTA	TRANSISTOR	[M]
Q502	KTC3199GRTA	TRANSISTOR	[M]
Q505	KTC3199GRTA	TRANSISTOR	[M]
Q506	KRA102MTA	TRANSISTOR	[M]
Q507	KTC3199GRTA	TRANSISTOR	[M]
Q508	KTC3199GRTA	TRANSISTOR	[M]
Q510	B1AAGC000007	TRANSISTOR	[M]
Q570	KTC3205YTA	TRANSISTOR	[M]
Q571	KRC102MTA	TRANSISTOR	[M]
Q572	B1AAGC000007	TRANSISTOR	[M]
Q573	2SB621ARSTA	TRANSISTOR	[M]
Q601	2SB621ARSTA	TRANSISTOR	[M]
Q602	KTC3875GRTA	TRANSISTOR	[M]
Q603	KTC3875GRTA	TRANSISTOR	[M]
Q604	KRC102STA	TRANSISTOR	[M]
Q605	B1ADCF000001	TRANSISTOR	[M]
Q606	KRC103STA	TRANSISTOR	[M]
Q607	B1ADCF000001	TRANSISTOR	[M] ⚠
Q701	B1ADCF000001	TRANSISTOR	[M]
Q802	KRC102STA	TRANSISTOR	[M]
Q803	KTA12710YTA	TRANSISTOR	[M]
Q804	KRA102STA	TRANSISTOR	[M]
Q805	KRA102STA	TRANSISTOR	[M]
Q809	KTD1304TA	TRANSISTOR	[M]
Q810	B1ABCF000011	TRANSISTOR	[M]
Q811	KTA12710YTA	TRANSISTOR	[M]
Q812	B1ABCF000011	TRANSISTOR	[M]
Q813	KRA102STA	TRANSISTOR	[M]
Q814	KRA102MTA	TRANSISTOR	[M]
Q815	KTD1304TA	TRANSISTOR	[M]
Q816	KTD1304TA	TRANSISTOR	[M]
Q817	KRA102STA	TRANSISTOR	[M]
Q818	KRA102STA	TRANSISTOR	[M]
Q819	KTD1304TA	TRANSISTOR	[M]
Q820	KTD1304TA	TRANSISTOR	[M]
Q976	B1AAGC000007	TRANSISTOR	[M] GC
Q1101	B1ABGC000001	TRANSISTOR	[M]
Q1201	B1ABGC000001	TRANSISTOR	[M]
Q1302	B1GDCFJJ0002	TRANSISTOR	[M]
Q1303	B1GBCFGH0001	TRANSISTOR	[M]
Q1304	B1GDCFGH0002	TRANSISTOR	[M]
Q1305	B1GBCFJJ0002	TRANSISTOR	[M]
Q1309	B1AAGC000007	TRANSISTOR	[M]
Q1310	B1AAGC000007	TRANSISTOR	[M]
Q1312	B1ABCF000011	TRANSISTOR	[M]
Q1313	B1AAAL000002	TRANSISTOR	[M]
Q1314	B1GDCFGH0002	TRANSISTOR	[M]
Q1315	KTA12710YTA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q1316	2SD09650RA	TRANSISTOR	[M]
Q1317	B1ABGC000001	TRANSISTOR	[M]
		DIODES	
D2	B0BA4R600003	DIODE	[M]
D202	MA2J72800L	DIODE	[M]
D203	MA2J72800L	DIODE	[M]
D204	MA2J72800L	DIODE	[M]
D205	B0ADCC000002	DIODE	[M]
D206	B0ADCC000002	DIODE	[M]
D301	1SS355TE17	DIODE	[M]
D302	B0ADCJ000020	DIODE	[M]
D303	B0ADCJ000020	DIODE	[M]
D304	B0ADCJ000020	DIODE	[M]
D305	B0BC5R000009	DIODE	[M]
D306	B0BC7R500001	DIODE	[M]
D307	MA2J72800L	DIODE	[M]
D308	RL1N4003S-P	DIODE	[M]
D309	B0BC5R000009	DIODE	[M]
D311	B0BC5R600003	DIODE	[M]
D312	RL1N4003S-P	DIODE	[M]
D313	MA2J72800L	DIODE	[M]
D314	MA2J72800L	DIODE	[M]
D315	MA2J72800L	DIODE	[M]
D316	MA2J72800L	DIODE	[M]
D317	1SS355TE17	DIODE	[M]
D318	B0ADCJ000020	DIODE	[M]
D358	1SS355TE17	DIODE	[M]
D362	1SS355TE17	DIODE	[M]
D363	1SS355TE17	DIODE	[M]
D364	1SS355TE17	DIODE	[M]
D365	RL1N4003S-P	DIODE	[M]
D371	UDZSTE1710B	DIODE	[M]
D402	MA2J72800L	DIODE	[M]
D403	MA2J72800L	DIODE	[M]
D404	MA2J72800L	DIODE	[M]
D405	B0ADCC000002	DIODE	[M]
D406	B0ADCC000002	DIODE	[M]
D501	RK306LFU1	DIODE	[M]
D502	RK306LFU1	DIODE	[M]
D503	B0AACK000004	DIODE	[M]
D504	RL1N4003S-P	DIODE	[M]
D505	RL1N4003S-P	DIODE	[M]
D511	B0BA01900005	DIODE	[M]
D512	1N5402BM21	DIODE	[M] ⚠
D513	1N5402BM21	DIODE	[M] ⚠
D514	1N5402BM21	DIODE	[M] ⚠
D516	1N5402BM21	DIODE	[M] ⚠
D518	1T3T	DIODE	[M]
D519	B0BA01900005	DIODE	[M]
D520	1N5402BM21	DIODE	[M] ⚠
D521	1T3T	DIODE	[M]
D522	1N5402BM21	DIODE	[M] ⚠
D523	KBP152G4R5	DIODE	[M] ⚠
D527	B0BA01900005	DIODE	[M]
D528	B0BA01900005	DIODE	[M]
D570	1T3T	DIODE	[M]
D571	1SS291TA	DIODE	[M] GC
D571	1T3T	DIODE	[M] GN
D572	1T3T	DIODE	[M]
D573	1T3T	DIODE	[M]
D574	B0AACK000004	DIODE	[M]
D575	RL1N4003S-P	DIODE	[M]
D576	RL1N4003S-P	DIODE	[M]
D577	1T3T	DIODE	[M] GN
D578	1T3T	DIODE	[M] GN
D580	B0BA6R600008	DIODE	[M] GN
D580	B0BA7R000005	DIODE	[M] GC
D581	1T3T	DIODE	[M] GC
D582	1T3T	DIODE	[M] GC
D596	B0AACK000004	DIODE	[M]
D600	1SS355TE17	DIODE	[M] GC
D601	1SS355TE17	DIODE	[M] GN

Ref. No.	Part No.	Part Name & Description	Remarks
D602	1SS355TE17	DIODE	[M] GC
D605	1SS355TE17	DIODE	[M]
D606	1SS355TE17	DIODE	[M]
D611	SLR325MCT31W	DIODE	[M]
D612	SLR325MCT31W	DIODE	[M]
D613	SLR325MCT31W	DIODE	[M]
D614	SLR325MCT31W	DIODE	[M]
D615	SLR325MCT31W	DIODE	[M]
D616	1SS380TE-17	DIODE	[M]
D618	LNJ201LPQJA	DIODE	[M]
D619	1SS380TE-17	DIODE	[M]
D620	MA8047MTX	DIODE	[M]
D621	1SS355TE17	DIODE	[M]
D622	MA729TX	DIODE	[M]
D624	1SS355TE17	DIODE	[M]
D625	1SS355TE17	DIODE	[M]
D626	1SS355TE17	DIODE	[M]
D801	B0BC5R000009	DIODE	[M]
D802	B0ADCC000002	DIODE	[M]
D803	B0ADCC000002	DIODE	[M]
D804	B0BC5R600003	DIODE	[M]
D805	RL1N4003S-P	DIODE	[M]
D806	RL1N4003S-P	DIODE	[M]
D807	MAZ80680HL	DIODE	[M]
D808	MAZ80680HL	DIODE	[M]
D809	1SS355TE17	DIODE	[M]
D813	1SS355TE17	DIODE	[M]
D951	MA2C16500E	DIODE	[M]
D957	B0BA03100002	DIODE	[M]
D1301	1SS355TE17	DIODE	[M]
		VARIABLE RESISTORS	
VR900	EVEKE2F3024M	VOLUME JOG	[M]
		SWITCHES	
S501	RSR4B008S-Q	SW VOLTAGE SELECTOR	[M] GC ⚠
S601	EVQ21405R	SW DECK OPEN	[M]
S602	EVQ21405R	SW S.WOOFER	[M]
S603	EVQ21405R	SW PRESET EQ	[M]
S604	EVQ21405R	SW SS EQ	[M]
S605	EVQ21405R	SW DPL	[M]
S606	EVQ21405R	SW POWER	[M]
S607	EVQ21405R	SW REC	[M]
S608	EVQ21405R	SW DIGITAL	[M]
S701	RSH1A043-U	SW RESET	[M]
S901	EVQ21405R	SW CD	[M]
S902	EVQ21405R	SW TAPE	[M]
S903	EVQ21405R	SW TUNER BAND	[M]
S904	EVQ21405R	SW AUX	[M]
S905	EVQ21405R	SW -V/ REW	[M]
S906	EVQ21405R	SW +V/ FF	[M]
S907	EVQ21405R	SW STOP/DEMO	[M]
S908	EVQ21405R	SW CD 1	[M]
S909	EVQ21405R	SW CD 2	[M]
S910	EVQ21405R	SW CD 3	[M]
S911	EVQ21405R	SW CD 4	[M]
S912	EVQ21405R	SW CD 5	[M]
S913	EVQ21405R	SW OPEN/CLOSE	[M]
S951	RSH1A018-3U	SW MODE	[M]
S952	RSH1A019-2U	SW HALF	[M]
S953	RSH1A019-2U	SW CR02	[M]
S954	RSH1A019-2U	SW RECINH_F	[M]
		SWITCHES	
SW1	RSH1A032-U	SW PUSH	[M]
SW2	RSH1A032-U	SW PUSH	[M]
SW3	RSH1A005-1U	SW	[M]
SW4	RSH1A91ZA-A	SW CD	[M]
SW5	K0L1BB000005	SW LOCK	[M]
		CONNECTORS	

Ref. No.	Part No.	Part Name & Description	Remarks
CN1	K1MN14A00049	14P FFC CONNECTOR	[M]
CN300	RJU057G12	12P P2 MQ CONNECTOR	[M]
CN301	RJU057G12	12P P2 MQ CONNECTOR	[M]
CN302	K1MN30A00046	30P FFC CONNECTOR	[M]
CN303	K1MN30A00046	30P FFC CONNECTOR	[M]
CN304	RJS1A5209	9P MOLEX	[M]
CN305	K1KA02A00008	CONNECTOR	[M]
CN306	RJT100W11	11P CONNECTOR	[M]
CN309	RJS1A9414-1	14P CONNECTOR	[M]
CN310	RJS1A9419-1	19P CONECTOR	[M]
CN501	K1KA12A00066	11P CONNECTOR	[M]
CN502	K1KA07A00058	7P CONNECTOR	[M]
CN602	RJT066H08B	8P BTB CONNECTOR	[M]
CN701	RJS2A8616	16P FPC CONNECTOR	[M]
CN702	RJS1A6719-1Q	19P FFC CONNECTOR	[M]
CN1303	K1MP10B00002	9P DECK TO MAIN WIRE	[M]
CP503	K1KA12A00184	12P P2 MQ CONNECTOR	[M]
CP504	K1KA12A00184	12P P2 MQ CONNECTOR	[M]
CP520	K1KA10A00114	10P CONNECTOR	[M]
CP600	K1MN30A00046	30P FFC CONNECTOR	[M]
CP601	K1MN30A00046	30P FFC CONNECTOR	[M]
CP602	RJU066H08	8P B-B SOCKET	[M]
CP1301	RJS1A6805-J	5P CONNECTOR SOCKET	[M]
CP1902	RJT071K09A	9P B/B CONNECTOR	[M]
CS951	RJU071H09M1	CONNECTOR	[M]
		COILS & TRANSFORMERS	
L300	RLBV252AV-Y	LINE COIL	[M]
L301	RLBV252AV-Y	LINE COIL	[M]
L500	RLQZ371	LINE FILTER	[M] ⚠
L602	G0C101JA0030	INDUCTOR	[M]
L603	G0C3R3JA0030	COIL	[M]
L800	RLBN102V-Y	CHIP INDUCTOR	[M]
L801	RLQZB470KT-D	RF CHOKE COIL	[M]
L802	RLQZ150M-0	BEADS CHOKE	[M]
L803	RLBV252AV-Y	LINE COIL	[M]
L804	RLBV252AV-Y	LINE COIL	[M]
L901	RLBV252AV-Y	LINE COIL	[M]
L902	RLBV252AV-Y	LINE COIL	[M]
L903	RLBV252AV-Y	LINE COIL	[M]
L904	RLBV252AV-Y	LINE COIL	[M]
L905	RLBV252AV-Y	LINE COIL	[M]
L1301	7L1A62N	BIAS OSC COIL	[M]
L1302	G0C470JA0030	RF CHOKE COIL	[M]
T501	ETP76VQT61MA	TRANSFORMER PART	[M] ⚠
T502	G4C2AAJ00001	BACK UP TRANSFORMER	[M] ⚠
		COMPONENT COMBINATION	
Z501	ERZV10V511CS	ZENER	[M] ⚠
Z900	B3RAB0000016	REMOTE CONTROL SENSO	[M]
RAL301	RAN0004MM-2	TUNER PACK	[M]
		RELAY	
RL502	RSY0040M-0	PRIMARY RELAY	[M]
		OSCILLATORS	
X600	RSXD32K7S02	CRYSTAL OSCILLATOR	[M]
X601	RSXZ4M19B01T	CRYSTAL OSCILLATOR	[M]
X701	RSXZ16M9M01T	CERAMIC OSCILLATOR	[M]
X801	AF245766CD	CRYSTAL OSCILLAOTR	[M]
		DISPLAY TUBE	
FL600	A2BD00000051	FL	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		FUSES	
F1	K5D122BK0004	FUSE	[M] GN ⚠
F1	K5D252BK0007	2.5A CURRENT FUSE	[M] GC ⚠
F2	K5D122BK0004	FUSE	[M] GC ⚠
		FUSE HOLDERS	
FC501	EYF52BC	FUSE HOLDER	[M]
FC502	EYF52BC	FUSE HOLDER	[M]
FC503	EYF52BC	FUSE HOLDER	[M] GC
FC504	EYF52BC	FUSE HOLDER	[M] GC
		FUSE PROTECTOR	
FP583	K5G402AA0002	FUSE PROTECTOR	[M] ⚠
FP584	K5G102AA0002	FUSE PROTECTOR	[M] ⚠
		HOLDERS	
H502	K1YF12000004	WIRE HOLDER	[M]
H521	RJS1A5510	WIRE HOLDER	[M]
H600	RMR0316	7P CABLE HOLDER	[M]
H601	RMR0318	9P CABLE HOLDER	[M]
H602A	RMR0313	4P CABLE HOLDER	[M]
H602B	RMR0313	4P CABLE HOLDER	[M]
H603A	RMR0315	6P CABLE HOLDER	[M]
H603B	RMR0315	6P CABLE HOLDER	[M]
H1304	RMR0318	9P CABLE HOLDER	[M]
		JACKS	
JK305	RJH2405L	JK 4 PIN RCA	[M]
JK306	RJH2110N-2	JK SUB-WOOFER	[M]
JK500	K2AA2B000004	JK AC INLET	[M] ⚠
JK501	RJR0054M-J	JK SPEAKER	[M]
JK502	RJR0054M-J	JK SPEAKER	[M]
JK503	RJH5603-9	JK SPEAKER	[M]
JK801	B3ZAZ0000012	JK OPTICAL INPUT	[M]
JK803	RJH2110N-1	JK SUB-WOFFER	[M]
JK901	RJJ37TK07-X	JK HP/MIC	[M]
		EARTH TERMINAL	
E500	SNE1004-2	EARTH TERMINAL	[M]
E501	SNE1004-2	EARTH TERMINAL	[M]
		WIRES	
W1	REEX0059	WIRE (BLUE)	[M] GN
W1	REZ1023-1	4P WIRE	[M]
W1	REU38B085XX	WIRE	[M]
W2	REEX0060	WIRE (RED)	[M] GN
W2	REZ1024	3P WIRE	[M]
W500	REX1076	INLET TO PT FLAT WIR	[M]
W502	REXX0293	TRANS TO POWER FLAT	[M]
W521	REX1073	POWER TO SPEAKER FLA	[M]
W601	RWJ6510110XX	10P WIRE	[M]
W602	REXX0313	7P FLAT WIRE	[M]
W603	RWJ1104215XX	WIRE	[M]
W605	RWJ1106100XX	BABY P.T. TO MAIN FL	[M]
W1304	RWJ1109085XX	9P FLAT WIRE	[M]
W1903	RWJ0102050CK	MAIN-MECHA MOTOR WIR	[M]
		JUMPER PLATE	
PL1	RJR0199	JUMPER PLATE	[M] GC
		RESISTORS	
R1	ERDS2TJ102T	1K 1/4W	[M]
R201	ERJ3GEYJ123V	12K 1/16W	[M]
R202	D0GB302JA008	3K 1/16W	[M]
R203	ERJ3GEYJ102V	1K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R204	ERJ3GEYJ473V	47K 1/16W	[M]
R205	ERJ3GEYJ102V	1K 1/16W	[M]
R206	ERJ3GEYJ473V	47K 1/16W	[M]
R207	D0GB152JA002	1.5K 1/16W	[M]
R208	D0GB562JA002	5.6K 1/16W	[M]
R209	D0GB333JA002	33K 1/16W	[M]
R210	ERJ3GEYJ822V	8.2K 1/16W	[M]
R211	ERJ3GEY0R00V	0 1/16W	[M]
R212	D0GB302JA008	3K 1/16W	[M]
R213	ERJ3GEYJ123V	12K 1/16W	[M]
R215	ERJ3GEYJ104V	100K 1/16W	[M]
R216	ERJ3GEYJ104V	100K 1/16W	[M]
R217	ERJ3GEY0R00V	0 1/16W	[M]
R218	ERJ3GEYJ102V	1K 1/16W	[M]
R219	D0GB332JA002	3.3K 1/16W	[M]
R220	D0GB562JA002	5.6K 1/16W	[M]
R221	D0GB272JA002	2.7K 1/16W	[M]
R222	ERJ3GEYJ472V	4.7K 1/16W	[M]
R223	ERJ3GEYJ473V	47K 1/16W	[M]
R224	D0GB122JA019	1.2K 1/16W	[M]
R225	ERJ3GEYJ224V	220K 1/16W	[M]
R226	ERJ3GEYJ222V	2.2K 1/16W	[M]
R227	ERJ3GEYJ472V	4.7K 1/16W	[M]
R228	ERJ3GEYJ104V	100K 1/16W	[M]
R229	ERJ3GEYJ102V	1K 1/16W	[M]
R230	ERJ3GEYJ123V	12K 1/16W	[M]
R231	ERJ3GEYJ102V	1K 1/16W	[M]
R232	ERJ3GEYJ104V	100K 1/16W	[M]
R233	D0GB152JA002	1.5K 1/16W	[M]
R234	D0GB101JA002	100 1/16W	[M]
R235	D0GB101JA002	100 1/16W	[M]
R236	D0GB101JA002	100 1/16W	[M]
R237	D0GB101JA002	100 1/16W	[M]
R238	D0GB683JA002	6.8K 1/16W	[M]
R239	D0GB333JA002	33K 1/16W	[M]
R240	ERJ3GEYJ222V	2.2K 1/16W	[M]
R241	D0GB334JA002	330K 1/16W	[M]
R242	D0GB680JA019	68 1/16W	[M]
R243	ERJ3GEYJ823V	82K 1/16W	[M]
R244	ERJ3GEY0R00V	0 1/16W	[M]
R245	ERJ3GEYJ153V	15K 1/16W	[M]
R246	ERJ3GEYJ153V	15K 1/16W	[M]
R247	D0GB334JA002	330K 1/16W	[M]
R248	ERJ3GEYJ222V	2.2K 1/16W	[M]
R249	D0GB152JA002	1.5K 1/16W	[M]
R250	D0GB332JA002	3.3K 1/16W	[M]
R251	ERJ3GEYJ104V	100K 1/16W	[M]
R252	ERJ3GEYJ823V	82K 1/16W	[M]
R253	D0GB101JA002	100 1/16W	[M]
R254	ERJ3GEY0R00V	0 1/16W	[M]
R255	D0GB333JA002	33K 1/16W	[M]
R256	D0GB683JA002	68K 1/16W	[M]
R257	ERJ3GEYJ102V	1K 1/16W	[M]
R258	D0GB152JA002	1.5K 1/16W	[M]
R259	D0GB152JA002	1.5K 1/16W	[M]
R260	ERJ3GEYJ104V	100K 1/16W	[M]
R261	D0GB152JA002	1.5K 1/16W	[M]
R262	ERJ3GEYJ471V	470 1/16W	[M]
R270	D0GB393JA002	39K 1/16W	[M]
R271	ERJ3GEYJ153V	15K 1/16W	[M]
R272	D0GB272JA002	2.7K 1/16W	[M]
R273	ERJ3GEYJ103V	10K 1/16W	[M]
R274	ERJ3GEYJ103V	10K 1/16W	[M]
R275	ERJ3GEYJ822V	8.2K 1/16W	[M]
R290	D0GB563JA002	56K 1/16W	[M]
R300	ERJ3GEY0R00V	0 1/16W	[M]
R301	ERJ3GEYJ123V	12K 1/16W	[M]
R302	ERJ3GEYJ472V	4.7K 1/16W	[M]
R303	ERJ3GEYJ103V	10K 1/16W	[M]
R304	ERJ3GEYJ222V	2.2K 1/16W	[M]
R305	ERJ3GEYJ222V	2.2K 1/16W	[M]
R306	ERJ3GEYJ681V	680 1/16W	[M]
R307	ERJ3GEYJ473V	47K 1/16W	[M]
R308	ERJ3GEYJ473V	47K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R309	ERJ3GEYJ223V	22K 1/16W	[M]
R310	ERJ3GEYJ123V	12K 1/16W	[M]
R311	ERJ3GEYJ103V	10K 1/16W	[M]
R312	ERJ3GEYJ221V	220 1/16W	[M]
R313	ERJ3GEYJ223V	22K 1/16W	[M]
R314	ERJ3GEYJ123V	12K 1/16W	[M]
R315	ERJ3GEYJ103V	10K 1/16W	[M]
R316	ERJ3GEYJ103V	10K 1/16W	[M]
R317	ERJ3GEYJ102V	1K 1/16W	[M]
R318	D0GB101JA002	100 1/16W	[M]
R319	D0GB101JA002	100 1/16W	[M]
R320	D0GB101JA002	100 1/16W	[M]
R321	ERJ3GEYJ104V	100K 1/16W	[M]
R322	ERJ3GEYJ104V	100K 1/16W	[M]
R323	ERJ3GEYJ104V	100K 1/16W	[M]
R324	D0GB562JA002	5.6K 1/16W	[M]
R325	D0GB562JA002	5.6K 1/16W	[M]
R326	D0GB562JA002	5.6K 1/16W	[M]
R327	D0GB562JA002	5.6K 1/16W	[M]
R328	ERJ3GEYJ472V	4.7K 1/16W	[M]
R329	ERJ3GEYJ103V	10K 1/16W	[M]
R330	ERJ3GEYJ103V	10K 1/16W	[M]
R331	ERJ3GEYJ103V	10K 1/16W	[M]
R332	ERJ3GEYJ103V	10K 1/16W	[M]
R333	ERJ3GEYJ103V	10K 1/16W	[M]
R334	ERJ3GEYJ103V	10K 1/16W	[M]
R335	ERJ3GEYJ103V	10K 1/16W	[M]
R336	ERJ3GEYJ102V	1K 1/16W	[M]
R337	D0GB273JA002	27K 1/16W	[M]
R338	ERJ3GEYJ222V	2.2K 1/16W	[M]
R339	D0GB563JA002	56K 1/16W	[M]
R340	D0GB273JA002	27K 1/16W	[M]
R341	D0GB563JA002	56K 1/16W	[M]
R342	D0GB393JA002	39K 1/16W	[M]
R343	ERJ3GEYJ153V	15K 1/16W	[M]
R344	ERJ3GEYJ103V	10K 1/16W	[M]
R345	ERJ3GEYJ223V	22K 1/16W	[M]
R346	ERDS1FVJ270T	27 1/2W	[M]
R347	ERJ3GEYJ222V	2.2K 1/16W	[M]
R348	D0GB333JA002	33K 1/16W	[M]
R349	D0GB105JA002	1M 1/16W	[M]
R350	ERJ3GEYJ123V	12K 1/16W	[M]
R351	D0GB562JA002	5.6K 1/16W	[M]
R352	D0GB563JA002	56K 1/16W	[M]
R353	D0GB563JA002	56K 1/16W	[M]
R354	D0GB183JA002	18K 1/16W	[M]
R355	ERJ3GEYJ104V	100K 1/16W	[M]
R356	D0GB683JA002	68K 1/16W	[M]
R357	ERJ3GEYJ104V	100K 1/16W	[M]
R358	D0GB563JA002	56K 1/16W	[M]
R359	ERJ3GEYJ824V	820K 1/16W	[M]
R360	ERJ3GEYJ223V	22K 1/16W	[M]
R361	D0GB563JA002	56K 1/16W	[M]
R362	ERJ3GEYJ153V	15K 1/16W	[M]
R363	D0GB334JA002	330K 1/16W	[M]
R364	ERJ3GEYJ823V	82K 1/16W	[M]
R365	ERJ3GEYJ222V	2.2K 1/16W	[M]
R366	D0GB680JA019	68 1/16W	[M]
R367	ERJ3GEY0R00V	0 1/16W	[M]
R368	ERJ3GEY0R00V	0 1/16W	[M]
R369	ERJ3GEY0R00V	0 1/16W	[M]
R370	ERJ3GEYJ104V	100K 1/16W	[M]
R371	ERJ3GEYJ103V	10K 1/16W	[M]
R372	ERJ3GEYJ472V	4.7K 1/16W	[M]
R373	ERJ3GEYJ225V	2.2M 1/16W	[M]
R374	ERJ3GEYJ472V	4.7K 1/16W	[M]
R375	D0GB332JA002	3.3K 1/16W	[M]
R376	ERJ3GEYJ104V	100K 1/16W	[M]
R377	ERJ3GEYJ103V	10K 1/16W	[M]
R378	ERDS1FVJ220T	22 1/2W	[M]
R379	ERJ3GEYJ224V	220K 1/16W	[M]
R380	D0GB101JA002	100 1/16W	[M]
R381	ERJ3GEYJ104V	100K 1/16W	[M]
R382	ERJ3GEY0R00V	0 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R383	RLBN102V-Y	INDUCTOR	[M]
R384	ERJ3GEYJ103V	10K 1/16W	[M]
R386	ERJ3GEY0R00V	0 1/16W	[M]
R387	ERJ3GEY0R00V	0 1/16W	[M]
R388	ERJ3GEYJ102V	1K 1/16W	[M]
R389	ERJ3GEYJ103V	10K 1/16W	[M]
R390	ERJ3GEY0R00V	0 1/16W	[M]
R391	D0GB562JA002	5.6K 1/16W	[M]
R392	ERJ3GEYJ123V	12K 1/16W	[M]
R393	ERJ3GEYJ104V	100K 1/16W	[M]
R394	D0GB273JA002	27K 1/16W	[M]
R395	D0GB563JA002	56K 1/16W	[M]
R396	D0GB152JA002	1.5K 1/16W	[M]
R397	ERJ3GEYJ104V	100K 1/16W	[M]
R399	ERJ3GEYJ221V	220 1/16W	[M]
R401	ERJ3GEYJ123V	12K 1/16W	[M]
R402	D0GB302JA008	3K 1/16W	[M]
R403	ERJ3GEYJ102V	1K 1/16W	[M]
R404	ERJ3GEYJ473V	47K 1/16W	[M]
R405	ERJ3GEYJ102V	1K 1/16W	[M]
R406	ERJ3GEYJ473V	47K 1/16W	[M]
R407	D0GB152JA002	1.5K 1/16W	[M]
R408	D0GB562JA002	5.6K 1/16W	[M]
R409	D0GB333JA002	33K 1/16W	[M]
R410	ERJ3GEYJ822V	8.2K 1/16W	[M]
R411	ERJ3GEY0R00V	0 1/16W	[M]
R412	D0GB302JA008	3K 1/16W	[M]
R413	ERJ3GEYJ123V	12K 1/16W	[M]
R415	ERJ3GEYJ104V	100K 1/16W	[M]
R416	ERJ3GEYJ104V	100K 1/16W	[M]
R417	ERJ3GEY0R00V	0 1/16W	[M]
R418	ERJ3GEYJ102V	1K 1/16W	[M]
R419	D0GB332JA002	3.3K 1/16W	[M]
R420	D0GB562JA002	5.6K 1/16W	[M]
R421	D0GB272JA002	2.7K 1/16W	[M]
R422	ERJ3GEYJ472V	4.7K 1/16W	[M]
R423	ERJ3GEYJ473V	47K 1/16W	[M]
R424	D0GB122JA019	1.2K 1/16W	[M]
R425	ERJ3GEYJ224V	220K 1/16W	[M]
R426	ERJ3GEYJ222V	2.2K 1/16W	[M]
R427	ERJ3GEYJ472V	4.7K 1/16W	[M]
R428	ERJ3GEYJ104V	100K 1/16W	[M]
R429	ERJ3GEYJ102V	1K 1/16W	[M]
R430	ERJ3GEYJ123V	12K 1/16W	[M]
R431	ERJ3GEYJ102V	1K 1/16W	[M]
R432	ERJ3GEYJ104V	100K 1/16W	[M]
R433	D0GB152JA002	1.5K 1/16W	[M]
R434	D0GB101JA002	100 1/16W	[M]
R435	D0GB101JA002	100 1/16W	[M]
R436	D0GB101JA002	100 1/16W	[M]
R437	D0GB101JA002	100 1/16W	[M]
R438	D0GB683JA002	68K 1/16W	[M]
R439	D0GB333JA002	33K 1/16W	[M]
R440	ERJ3GEYJ222V	2.2K 1/16W	[M]
R441	D0GB334JA002	330K 1/16W	[M]
R442	D0GB680JA019	68 1/16W	[M]
R443	ERJ3GEYJ823V	82K 1/16W	[M]
R444	ERJ3GEY0R00V	0 1/16W	[M]
R445	ERJ3GEYJ153V	15K 1/16W	[M]
R446	ERJ3GEYJ153V	15K 1/16W	[M]
R447	D0GB334JA002	330K 1/16W	[M]
R448	ERJ3GEYJ222V	2.2K 1/16W	[M]
R449	D0GB152JA002	1.5K 1/16W	[M]
R450	D0GB332JA002	3.3K 1/16W	[M]
R451	ERJ3GEYJ104V	100K 1/16W	[M]
R452	ERJ3GEYJ823V	82K 1/16W	[M]
R453	D0GB101JA002	100 1/16W	[M]
R454	ERJ3GEY0R00V	0 1/16W	[M]
R455	D0GB333JA002	33K 1/16W	[M]
R456	D0GB683JA002	68K 1/16W	[M]
R457	ERJ3GEYJ102V	1K 1/16W	[M]
R458	D0GB152JA002	1.5K 1/16W	[M]
R459	D0GB152JA002	1.5K 1/16W	[M]
R460	ERJ3GEYJ104V	100K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R461	D0GB152JA002	1.5K 1/16W	[M]
R462	ERJ3GEYJ471V	470 1/16W	[M]
R470	D0GB393JA002	39K 1/16W	[M]
R471	ERJ3GEYJ153V	15K 1/16W	[M]
R472	D0GB272JA002	2.7K 1/16W	[M]
R473	ERJ3GEYJ103V	10K 1/16W	[M]
R474	ERJ3GEYJ103V	10K 1/16W	[M]
R475	ERJ3GEYJ822V	8.2K 1/16W	[M]
R490	D0GB563JA002	56K 1/16W	[M]
R501	ERDS2TJ392T	3.9K 1/4W	[M]
R502	ERDS2TJ392T	3.9K 1/4W	[M]
R503	ERDS2TJ472T	4.7K 1/4W	[M]
R504	ERDS2TJ472T	4.7K 1/4W	[M]
R505	ERDS2TJ153T	15K 1/4W	[M]
R506	ERDS2TJ153T	15K 1/4W	[M]
R507	ERDS2TJ472T	4.7K 1/4W	[M]
R508	ERDS2TJ472T	4.7K 1/4W	[M]
R509	ERDS2TJ392T	3.9K 1/4W	[M]
R510	ERDS2TJ103T	10K 1/4W	[M]
R511	ERDS2TJ153T	15K 1/4W	[M]
R512	ERDS2TJ224T	220K 1/4W	[M]
R513	ERDS2TJ683T	68K 1/4W	[M]
R514	ERDS2TJ683T	68K 1/4W	[M]
R515	ERDS2TJ104T	100K 1/4W	[M]
R516	ERDS2TJ823T	82K 1/4W	[M]
R517	ERDS2TJ563T	56K 1/4W	[M]
R518	ERDS2TJ563T	56K 1/4W	[M]
R519	ERDS2TJ474T	470K 1/4W	[M]
R520	ERDS2TJ103T	10K 1/4W	[M]
R521	ERDS2TJ103T	10K 1/4W	[M]
R522	ERDS2TJ273T	27K 1/4W	[M]
R523	ERDS2TJ124T	120K 1/4W	[M]
R524	ERDS2TJ124T	120K 1/4W	[M]
R525	ERDS2TJ154T	150K 1/4W	[M]
R526	ERDS2TJ124T	120K 1/4W	[M]
R527	ERDS2TJ124T	120K 1/4W	[M]
R528	ERDS2TJ154T	150K 1/4W	[M]
R529	ERDS2TJ223T	22K 1/4W	[M]
R532	ERDS2TJ103T	10K 1/16W	[M]
R537	ERDS1FVJ100T	10 1/2W	[M]
R538	ERDS1FVJ100T	10 1/2W	[M]
R539	ERDS1FVJ100T	10 1/2W	[M]
R540	ERDS1FVJ100T	10 1/2W	[M]
R541	ERDS1FVJ100T	10 1/2W	[M]
R542	ERDS1FVJ100T	10 1/2W	[M]
R544	ERDS2TJ473T	47K 1/4W	[M]
R545	ERDS2TJ153T	15K 1/4W	[M]
R546	ERDS2TJ473T	47K 1/4W	[M]
R567	ERDS1FVJ2R2T	2.2 1/2W	[M]
R568	ERDS1FVJ2R2T	2.2 1/2W	[M]
R569	ERDS2TJ104T	100K 1/4W	[M]
R570	ERDS1FVJ180T	18 1/2W	[M]
R571	ERDS1FVJ180T	18 1/2W	[M]
R572	ERDS1FVJ220T	22 1/2W	[M]
R573	ERDS2TJ151T	150 1/4W	[M] GN
R573	ERDS2TJ152T	1.5K 1/4W	[M] GC
R574	ERDS2TJ122T	1.2K 1/4W	[M] GC
R574	ERDS2TJ154T	150K 1/4W	[M]
R574	ERDS2TJ821T	820 1/4W	[M] GN
R575	ERDS2TJ154T	150K 1/16W	[M]
R575	ERDS2TJ824T	820K 1/4W	[M] GC
R576	ERDS2TJ103T	10K 1/4W	[M]
R576	ERDS2TJ102T	5.6K 1/4W	[M]
R577	ERDS2TJ103T	10K 1/4W	[M]
R578	ERDS2TJ102T	1K 1/4W	[M] GC
R578	ERDS2TJ332T	3.3K 1/4W	[M] GN
R579	ERDS1FVJ2R2T	2.2 1/2W	[M]
R580	ERDS2TJ151T	150 1/4W	[M]
R581	ERDS2TJ472T	4.7K 1/4W	[M]
R582	ERDS1FVJ2R2T	2.2 1/2W	[M]
R583	ERD2FCVJ4R7T	4.7 1/4W	[M]
R594	ERDS2TJ152T	1.5K 1/4W	[M]
R595	ERDS2TJ152T	1.5K 1/4W	[M]
R602	ERJ3GEYJ182V	1.8K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R603	D0GB122JA019	1.2K 1/16W	[M]
R604	ERJ3GEYJ102V	1K 1/16W	[M]
R605	ERJ3GEYJ102V	1K 1/16W	[M]
R606	ERJ3GEYJ102V	1K 1/16W	[M]
R607	ERJ3GEYJ472V	4.7K 1/16W	[M]
R608	D0GB101JA002	100 1/16W	[M]
R609	D0GB101JA002	100 1/16W	[M]
R610	ERJ3GEYJ473V	47K 1/16W	[M]
R611	ERJ3GEYJ103V	10K 1/16W	[M]
R612	ERJ3GEYJ103V	10K 1/16W	[M]
R613	ERJ3GEYJ473V	47K 1/16W	[M]
R614	D0GB101JA002	100 1/16W	[M]
R615	ERJ3GEYJ102V	1K 1/16W	[M]
R616	ERJ3GEYJ102V	1K 1/16W	[M]
R617	D0GB271JA002	270 1/16W	[M]
R618	D0GB271JA002	270 1/16W	[M]
R619	D0GB151JA008	150 1/16W	[M]
R620	D0GB121JA002	120 1/16W	[M]
R621	D0GB152JA002	1.5K 1/16W	[M]
R622	ERJ3GEYJ223V	22K 1/16W	[M]
R623	ERJ3GEYJ223V	22K 1/16W	[M]
R624	ERJ3GEYJ223V	22K 1/16W	[M]
R625	ERJ3GEYJ472V	4.7K 1/16W	[M]
R626	D0GB101JA002	100 1/16W	[M]
R627	D0GB101JA002	100 1/16W	[M]
R628	D0GB101JA002	100 1/16W	[M]
R629	D0GB106JA008	10M 1/16W	[M]
R630	D0GB334JA002	330K 1/16W	[M]
R631	ERJ3GEYJ681V	680 1/16W	[M]
R632	ERJ3GEYJ472V	4.7K 1/16W	[M]
R633	ERJ3GEYJ472V	4.7K 1/16W	[M]
R634	ERJ3GEYJ102V	1K 1/16W	[M]
R635	ERJ3GEYJ223V	22K 1/16W	[M]
R636	ERJ3GEYJ102V	1K 1/16W	[M]
R637	ERJ3GEYJ102V	1K 1/16W	[M]
R638	D0GB474JA002	470K 1/16W	[M]
R639	ERJ3GEYJ472V	4.7K 1/16W	[M]
R640	D0GB680JA019	68 1/16W	[M]
R641	D0GB680JA019	68 1/16W	[M]
R642	ERJ3GEYJ102V	1K 1/16W	[M]
R643	D0GB101JA002	100 1/16W	[M]
R644	D0GB101JA002	100 1/16W	[M]
R645	D0GB101JA002	100 1/16W	[M]
R646	ERJ3GEYJ103V	10K 1/16W	[M]
R647	ERJ3GEYJ473V	47K 1/16W	[M]
R648	ERJ3GEYJ681V	680 1/16W	[M]
R649	D0GB101JA002	100 1/16W	[M]
R650	D0GB562JA002	5.6K 1/16W	[M]
R651	D0GB101JA002	100 1/16W	[M]
R652	D0GB101JA002	100 1/16W	[M]
R653	D0GB101JA002	100 1/16W	[M]
R654	D0GB101JA002	100 1/16W	[M]
R655	ERJ3GEYJ104V	100K 1/16W	[M]
R656	ERJ3GEYJ471V	470 1/16W	[M]
R657	ERJ3GEYJ223V	22K 1/16W	[M]
R658	ERJ3GEYJ103V	10K 1/16W	[M]
R659	ERJ3GEYJ102V	1K 1/16W	[M]
R660	D0GB151JA008	150 1/16W	[M]
R661	D0GB101JA002	100 1/16W	[M]
R662	ERJ3GEYJ102V	1K 1/16W	[M]
R663	ERJ3GEYJ102V	1K 1/16W	[M]
R664	ERJ3GEYJ102V	1K 1/16W	[M]
R665	ERJ3GEYJ102V	1K 1/16W	[M]
R666	ERJ3GEYJ102V	1K 1/16W	[M]
R667	ERJ3GEYJ102V	1K 1/16W	[M]
R668	ERJ3GEYJ472V	4.7K 1/16W	[M]
R669	ERJ3GEYJ472V	4.7K 1/16W	[M]
R670	ERJ3GEYJ472V	4.7K 1/16W	[M]
R671	ERJ3GEYJ472V	4.7K 1/16W	[M]
R672	ERJ3GEYJ102V	1K 1/16W	[M]
R673	ERJ3GEYJ104V	100K 1/16W	[M]
R674	ERJ3GEYJ223V	22K 1/16W	[M]
R675	D0GB151JA008	150 1/16W	[M]
R676	ERJ3GEYJ102V	1K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R677	ERJ3GEYJ473V	47K 1/16W	[M]
R678	ERJ3GEYJ472V	4.7K 1/16W	[M]
R679	ERJ3GEYJ103V	10K 1/16W	[M]
R680	ERJ3GEYJ682V	6.8K 1/16W	[M]
R681	ERJ3GEYJ102V	1K 1/16W	[M]
R682	ERJ3GEYJ102V	1K 1/16W	[M]
R683	D0GB101JA002	100 1/16W	[M]
R684	ERJ3GEYJ104V	100K 1/16W	[M]
R685	ERJ3GEYJ104V	100K 1/16W	[M]
R686	ERJ3GEYJ104V	100K 1/16W	[M]
R687	ERJ3GEYJ104V	100K 1/16W	[M]
R688	ERJ3GEYJ104V	100K 1/16W	[M]
R689	ERJ3GEYJ104V	100K 1/16W	[M]
R690	ERJ3GEYJ104V	100K 1/16W	[M]
R691	ERJ3GEYJ104V	100K 1/16W	[M]
R692	ERJ3GEYJ104V	100K 1/16W	[M]
R693	ERJ3GEYJ102V	1K 1/16W	[M]
R694	D0GB101JA002	100 1/16W	[M]
R697	ERJ3GEYJ102V	1K 1/16W	[M]
R698	D0GB101JA002	100 1/16W	[M]
R699	D0GB101JA002	100 1/16W	[M]
R701	D0GB4R7JA008	4.7 1/16W	[M]
R702	ERJ3GEYJ103V	10K 1/16W	[M]
R704	ERJ3GEYJ102V	1K 1/16W	[M]
R705	D0GB154JA002	150K 1/16W	[M]
R706	ERJ3GEYJ102V	1K 1/16W	[M]
R707	D0GB393JA002	39K 1/16W	[M]
R708	ERJ3GEYJ223V	22K 1/16W	[M]
R709	ERJ3GEYJ473V	47K 1/16W	[M]
R711	ERJ3GEYJ823V	82K 1/16W	[M]
R712	ERJ3GEYJ221V	220 1/16W	[M]
R714	ERJ3GEY0R00V	0 1/16W	[M]
R715	ERJ3GEYJ102V	1K 1/16W	[M]
R717	ERJ3GEYJ102V	1K 1/16W	[M]
R718	ERJ3GEYJ102V	1K 1/16W	[M]
R721	D0GB101JA002	100 1/16W	[M]
R723	ERJ3GEYJ682V	6.8K 1/16W	[M]
R724	ERJ6GEYJ183V	18K 1/10W	[M]
R725	ERJ3GEYJ391V	390 1/16W	[M]
R727	D0GB392JA002	3.9K 1/16W	[M]
R728	D0GB392JA002	3.9K 1/16W	[M]
R729	D0GB392JA002	3.9K 1/16W	[M]
R731	ERJ6GEYJ682V	6.8K 1/10W	[M]
R735	ERJ6GEYJ101V	100 1/10W	[M]
R736	D0GB101JA002	100 1/16W	[M]
R741	ERJ3GEYJ473V	47K 1/16W	[M]
R742	ERJ6GEYJ224V	220K 1/10W	[M]
R744	D0GB124JA002	120K 1/16W	[M]
R749	ERJ3GEYJ472V	4.7K 1/16W	[M]
R750	ERJ6GEYJ4R7V	4.7 1/10W	[M]
R753	D0GB100JA002	10 1/16W	[M]
R801	ERJ3GEYJ472V	4.7K 1/16W	[M]
R802	D0GB183JA002	18K 1/16W	[M]
R803	D0GB105JA002	1M 1/16W	[M]
R804	ERJ3GEYJ104V	100K 1/16W	[M]
R805	ERJ3GEYJ221V	220 1/16W	[M]
R806	ERJ3GEYJ472V	4.7K 1/16W	[M]
R807	ERJ3GEYJ103V	10K 1/16W	[M]
R808	ERJ3GEYJ103V	10K 1/16W	[M]
R809	D0GB122JA019	1.2K 1/16W	[M]
R810	D0GB333JA002	33K 1/16W	[M]
R811	D0GB392JA002	3.9K 1/16W	[M]
R812	D0GB122JA019	1.2K 1/16W	[M]
R813	D0GB333JA002	33K 1/16W	[M]
R814	D0GB392JA002	3.9K 1/16W	[M]
R815	ERJ3GEYJ472V	4.7K 1/16W	[M]
R816	ERJ3GEYJ472V	4.7K 1/16W	[M]
R817	D0GB1R0JA002	1 1/16W	[M]
R818	ERJ3GEYJ223V	22K 1/16W	[M]
R819	D0GB1R0JA002	1 1/16W	[M]
R820	ERDS1FVJ470T	47 1/2W	[M]
R821	ERDS1FVJ470T	47 1/2W	[M]
R822	D0GB151JA008	150 1/16W	[M]
R823	ERJ3GEYJ223V	22K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R824	ERJ3GEYJ102V	1K 1/16W	[M]
R825	ERJ3GEY0R00V	0 1/16W	[M]
R826	ERJ3GEY0R00V	0 1/16W	[M]
R827	ERJ3GEY0R00V	0 1/16W	[M]
R828	ERJ3GEYJ221V	220 1/16W	[M]
R829	ERJ3GEYJ222V	2.2K 1/16W	[M]
R830	ERJ3GEYJ472V	4.7K 1/16W	[M]
R831	ERJ3GEYJ472V	4.7K 1/16W	[M]
R832	ERJ3GEYJ123V	12K 1/16W	[M]
R833	ERJ3GEYJ102V	1K 1/16W	[M]
R834	D0GB105JA002	1M 1/16W	[M]
R835	ERJ3GEYJ102V	1K 1/16W	[M]
R836	ERJ3GEYJ102V	1K 1/16W	[M]
R837	ERJ3GEYJ153V	15K 1/16W	[M]
R838	ERJ3GEYJ103V	10K 1/16W	[M]
R839	ERJ3GEYJ472V	4.7K 1/16W	[M]
R840	ERJ3GEYJ103V	10K 1/16W	[M]
R841	D0GB101JA002	100 1/16W	[M]
R842	ERJ3GEYJ102V	1K 1/16W	[M]
R843	ERJ3GEYJ221V	220 1/16W	[M]
R844	ERJ3GEYJ472V	4.7K 1/16W	[M]
R845	ERJ3GEYJ123V	12K 1/16W	[M]
R846	ERJ3GEY0R00V	0 1/16W	[M]
R847	ERJ3GEY0R00V	0 1/16W	[M]
R848	ERJ3GEY0R00V	0 1/16W	[M]
R849	ERJ3GEY0R00V	0 1/16W	[M]
R851	ERJ3GEYJ223V	22K 1/16W	[M]
R852	ERJ3GEY0R00V	0 1/16W	[M]
R853	ERJ3GEY0R00V	0 1/16W	[M]
R854	ERJ3GEYJ221V	220 1/16W	[M]
R855	ERJ3GEYJ123V	12K 1/16W	[M]
R856	ERJ3GEYJ123V	12K 1/16W	[M]
R857	ERJ3GEYJ221V	220 1/16W	[M]
R858	ERJ3GEYJ221V	220 1/16W	[M]
R859	ERJ3GEYJ221V	220 1/16W	[M]
R860	ERJ3GEYJ221V	220 1/16W	[M]
R861	ERJ3GEYJ221V	220 1/16W	[M]
R862	D0GB100JA002	10 1/16W	[M]
R863	ERJ3GEYJ391V	390 1/16W	[M]
R864	ERJ3GEYJ222V	2.2K 1/16W	[M]
R865	ERJ3GEYJ222V	2.2K 1/16W	[M]
R866	ERJ3GEYJ472V	4.7K 1/16W	[M]
R867	ERJ3GEYJ221V	220 1/16W	[M]
R870	ERJ3GEYJ221V	220 1/16W	[M]
R871	ERJ3GEYJ221V	220 1/16W	[M]
R872	ERJ3GEYJ221V	220 1/16W	[M]
R873	ERJ3GEY0R00V	0 1/16W	[M]
R884	ERJ3GEYJ123V	12K 1/16W	[M]
R885	ERJ3GEYJ123V	12K 1/16W	[M]
R886	ERJ3GEYJ123V	12K 1/16W	[M]
R888	D0GB122JA019	1.2K 1/16W	[M]
R903	ERJ3GEYJ222V	2.2K 1/16W	[M]
R904	D0GB272JA002	2.7K 1/16W	[M]
R905	ERJ3GEYJ472V	4.7K 1/16W	[M]
R906	ERJ3GEYJ682V	6.8K 1/16W	[M]
R907	ERJ3GEYJ103V	10K 1/16W	[M]
R908	ERJ3GEYJ223V	22K 1/16W	[M]
R909	D0GB683JA002	68K 1/16W	[M]
R910	ERJ3GEYJ470V	47 1/16W	[M]
R911	ERJ3GEYJ102V	1K 1/16W	[M]
R912	D0GB122JA019	1.2K 1/16W	[M]
R913	ERJ3GEYJ182V	1.8K 1/16W	[M]
R914	ERJ3GEYJ222V	2.2K 1/16W	[M]
R915	D0GB272JA002	2.7K 1/16W	[M]
R916	ERJ3GEYJ103V	10K 1/16W	[M]
R937	D0GB474JA002	470K 1/16W	[M]
R938	ERDS1FVJ1R5T	1.5 1/2W	[M]
R952	ERDS2TJ821T	820 1/4W	[M]
R953	ERDS2TJ393T	39K 1/4W	[M]
R1101	D0GB220JA002	22 1/16W	[M]
R1102	ERJ3GEY0R00V	0 1/16W	[M]
R1103	D0GB183JA002	18K 1/16W	[M]
R1104	ERJ3GEYJ103V	10K 1/16W	[M]
R1105	ERJ3GEYJ222V	2.2K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1106	ERJ3GEYJ104V	100K 1/16W	[M]
R1107	ERJ3GEYJ102V	1K 1/16W	[M]
R1109	ERJ3GEYJ102V	1K 1/16W	[M]
R1110	D0GB333JA002	33K 1/16W	[M]
R1201	D0GB220JA002	22 1/16W	[M]
R1202	ERJ3GEY0R00V	0 1/16W	[M]
R1203	D0GB183JA002	18K 1/16W	[M]
R1204	ERJ3GEYJ103V	10K 1/16W	[M]
R1205	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1206	ERJ3GEYJ104V	100K 1/16W	[M]
R1207	ERJ3GEYJ102V	1K 1/16W	[M]
R1209	ERJ3GEYJ102V	1K 1/16W	[M]
R1210	D0GB333JA002	33K 1/16W	[M]
R1302	D0GB101JA002	100 1/16W	[M]
R1303	D0GB475JA008	4.7M 1/16W	[M]
R1304	ERJ3GEYJ223V	22K 1/16W	[M]
R1305	ERJ3GEYJ103V	10K 1/16W	[M]
R1307	ERD25FVJ101T	100 1/4W	[M]
R1308	ERD25FVJ101T	100 1/4W	[M]
R1309	ERD25FVJ102T	1K 1/4W	[M]
R1313	ERJ3GEYJ103V	10K 1/16W	[M]
R1314	ERJ3GEYJ102V	1K 1/16W	[M]
R1316	ERJ3GEYJ102V	1K 1/16W	[M]
R1318	ERJ3GEYJ103V	10K 1/16W	[M]
R1327	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1328	ERJ3GEYJ153V	15K 1/16W	[M]
R1329	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1330	ERD2FCVJ4R7T	4.7 1/4W	[M] ⚠
R1331	ERJ3GEYJ103V	10K 1/16W	[M]
R1332	ERJ3GEYJ103V	10K 1/16W	[M]
R1333	ERD2FCVJ4R7T	4.7 1/4W	[M]
R1334	ERJ3GEYJ223V	22K 1/16W	[M]
R1335	D0GB152JA002	1.5K 1/16W	[M]
R1336	D0GB152JA002	1.5K 1/16W	[M]
R1337	ERJ3GEYJ103V	10K 1/16W	[M]
R1338	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1341	ERJ3GEYJ471V	470 1/16W	[M]
R1342	ERJ3GEYJ473V	47K 1/16W	[M]
R1343	D0GB332JA002	3.3K 1/16W	[M]
R1344	D0GB273JA002	27K 1/16W	[M]
R1345	ERJ3GEYJ102V	1K 1/16W	[M]
R1371	ERJ3GEYJ223V	22K 1/16W	[M]
R1372	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1373	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1374	ERJ3GEYJ471V	470 1/16W	[M]
R1375	ERD25FVJ101T	100 1/4W	[M]
R1376	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1377	D0GB1R0JA002	1 1/16W	[M]
R1401	ERJ3GEYJ123V	12K 1/16W	[M]
R1402	D0GB274JA002	270K 1/16W	[M]
R1403	ERJ3GEYJ103V	10K 1/16W	[M]
R1404	ERJ3GEYJ223V	22K 1/16W	[M]
R1405	ERJ3GEYJ103V	10K 1/16W	[M]
R3200	ERJ3GEYJ102V	1K 1/16W	[M]
R3201	ERJ3GEYJ103V	10K 1/16W	[M]
R3202	ERJ3GEYJ104V	100K 1/16W	[M]
R3203	ERJ3GEYJ153V	15K 1/16W	[M]
R3204	ERJ3GEYJ103V	10K 1/16W	[M]
R3205	ERJ3GEYJ103V	10K 1/16W	[M]
R3206	ERJ3GEYJ471V	470 1/16W	[M]
R3207	ERJ3GEYJ471V	470 1/16W	[M]
R3208	ERJ3GEYJ472V	4.7K 1/16W	[M]
R3209	ERJ3GEYJ472V	4.7K 1/16W	[M]
R3210	ERJ3GEYJ221V	220 1/16W	[M]
R3211	ERJ3GEYJ104V	100K 1/16W	[M]
R3212	ERJ3GEYJ221V	220 1/16W	[M]
R3213	ERJ3GEYJ104V	100K 1/16W	[M]
R3214	ERJ3GEYJ221V	220 1/16W	[M]
R3215	ERJ3GEYJ104V	100K 1/16W	[M]
R3216	ERJ3GEYJ822V	8.2K 1/16W	[M]
R3217	ERJ3GEYJ822V	8.2K 1/16W	[M]
R3218	D0GB392JA002	3.9K 1/16W	[M]
R3219	ERJ3GEYJ123V	12K 1/16W	[M]
R3220	ERJ3GEYJ472V	4.7K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R3221	ERJ3GEYJ103V	10K 1/16W	[M]
R3222	D0GB332JA002	33K 1/16W	[M]
R3300	ERJ3GEYJ123V	12K 1/16W	[M]
R3301	D0GB562JA002	5.6K 1/16W	[M]
R3302	D0GB122JA019	1.2K 1/16W	[M]
R3303	ERJ3GEYJ123V	12K 1/16W	[M]
R3304	D0GB272JA002	2.7K 1/16W	[M]
R3306	ERJ3GEY0R00V	0 1/16W	[M]
R3307	ERJ3GEYJ223V	22K 1/16W	[M]
R3308	ERJ3GEYJ104V	100K 1/16W	[M]
R3309	ERJ3GEYJ472V	4.7K 1/16W	[M]
R3310	ERJ3GEYJ153V	15K 1/16W	[M]
R3311	D0GB332JA002	3.3K 1/16W	[M]
R3312	ERJ3GEYJ472V	4.7K 1/16W	[M]
R3313	ERJ3GEYJ104V	100K 1/16W	[M]
R3314	D0GB332JA002	3.3K 1/16W	[M]
R3315	ERJ3GEYJ104V	100K 1/16W	[M]
R3316	D0GB332JA002	3.3K 1/16W	[M]
R3317	D0GB332JA002	3.3K 1/16W	[M]
R3318	D0GB332JA002	3.3K 1/16W	[M]
R3319	D0GB152JA002	1.5K 1/16W	[M]
R3320	ERJ3GEYJ472V	4.7K 1/16W	[M]
R3321	ERJ3GEYJ102V	1K 1/16W	[M]
R3322	ERJ3GEYJ153V	3.3K 1/16W	[M]
R3323	D0GB683JA002	68K 1/16W	[M]
R3324	ERJ3GEYJ153V	15K 1/16W	[M]
R3325	D0GB683JA002	68K 1/16W	[M]
R3326	ERJ3GEYJ102V	1K 1/16W	[M]
R3327	ERJ3GEYJ103V	10K 1/16W	[M]
R3328	ERJ3GEYJ103V	10K 1/16W	[M]
R3329	D0GB332JA002	3.3K 1/16W	[M]
R3330	ERJ3GEYJ104V	100K 1/16W	[M]
R3331	ERJ3GEYJ123V	12K 1/16W	[M]
R3334	ERJ3GEYJ472V	4.7K 1/16W	[M]
R3335	ERJ3GEYJ472V	4.7K 1/16W	[M]
R3400	ERJ3GEYJ102V	1K 1/16W	[M]
R3401	ERJ3GEYJ103V	10K 1/16W	[M]
R3402	ERJ3GEYJ104V	100K 1/16W	[M]
R3403	ERJ3GEYJ153V	15K 1/16W	[M]
R3404	ERJ3GEYJ103V	10K 1/16W	[M]
R3405	ERJ3GEYJ103V	10K 1/16W	[M]
R3406	ERJ3GEYJ471V	470 1/16W	[M]
R3407	ERJ3GEYJ471V	470 1/16W	[M]
R3408	ERJ3GEYJ472V	4.7K 1/16W	[M]
R3409	ERJ3GEYJ472V	4.7K 1/16W	[M]
R3410	ERJ3GEYJ221V	220 1/16W	[M]
R3411	ERJ3GEYJ104V	100K 1/16W	[M]
R3412	ERJ3GEYJ221V	220 1/16W	[M]
R3413	ERJ3GEYJ104V	100K 1/16W	[M]
R3414	ERJ3GEYJ221V	220 1/16W	[M]
R3415	ERJ3GEYJ104V	100K 1/16W	[M]
R3416	ERJ3GEYJ822V	8.2K 1/16W	[M]
R3417	ERJ3GEYJ822V	8.2K 1/16W	[M]
R3418	D0GB392JA002	3.9K 1/16W	[M]
R3419	ERJ3GEYJ123V	12K 1/16W	[M]
R3420	ERJ3GEYJ472V	4.7K 1/16W	[M]
R3421	ERJ3GEYJ103V	10K 1/16W	[M]
R3422	D0GB332JA002	3.3K 1/16W	[M]
		CAPACITORS	
C1	ECEA1CKA101B	100 16V	[M]
C2	ECBT1E103ZF5	0.01 25V	[M]
C201	ECUV1H101JCV	100P 50V	[M]
C202	ECJ1VC1H101K	100P 50V	[M]
C203	ECJ1VB1H221K	220P 50V	[M]
C204	ECEA1HKA100B	10 50V	[M]
C205	ECEA1CKA100B	10 16V	[M]
C207	ECEA1HKA0R1B	0.1 50V	[M]
C208	ECEA1HKA4R7B	4.7 50V	[M]
C209	ECEA1HKA2R2B	2.2 50V	[M]
C210	ECEA1HKA2R2B	2.2 50V	[M]
C211	ECEA1HKA2R2B	2.2 50V	[M] GC
C212	ECEA1HKA4R7B	4.7 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C213	ECEA1HKA010B	1 50V	[M]
C214	ECEA1CKA100B	10 16V	[M]
C215	ECUV1C104KBV	0.1 16V	[M]
C216	ECEA1HKAR22B	0.22 50V	[M]
C217	ECEA1HKAR22B	0.22 50V	[M]
C218	ECUV1C104KBV	0.1 16V	[M]
C219	ECUV1C104KBV	0.1 16V	[M]
C220	ECJ1VB1H182K	1800P 50V	[M]
C221	ECEA1HKA2R2B	2.2 50V	[M]
C222	ECEA1CKA100B	10 16V	[M]
C224	ECUV1H473KBV	0.047 50V	[M]
C225	ECJ1VC1H101K	100P 50V	[M]
C226	ECEA1HKA3R3B	3.3 50V	[M]
C227	ECJ1VC1H101K	100P 50V	[M]
C228	ECUV1H470JCV	47P 50V	[M]
C229	ECEA1CKA100B	10 16V	[M]
C230	ECEA1CKA100B	10 16V	[M]
C231	ECJ1VB1H102K	1000P 50V	[M]
C232	ECEA1HKA010B	1 50V	[M]
C233	ECJ1VB1H102K	1000P 50V	[M]
C234	ECEA1HKA010B	1 50V	[M]
C235	ECEA1HKA010B	1 50V	[M]
C236	ECJ1VC1H101K	100P 50V	[M]
C237	ECUV1H101JCV	100P 50V	[M]
C238	ECEA1HKA3R3B	3.3 50V	[M]
C239	ECEA1HKA010B	1 50V	[M]
C240	ECEA1HKAR22B	0.22 50V	[M]
C241	ECEA1HKA010B	1 50V	[M]
C242	ECEA1HKA0R1B	0.1 50V	[M]
C249	F1H1C393A089	0.039 16V	[M]
C290	ECJ1VB1H682K	6800P 50V	[M]
C302	ECUV1C104ZFV	0.1 16V	[M]
C303	ECJ1VB1H102K	1000P 50V	[M]
C304	ECJ1VB1E103K	0.01 25V	[M]
C305	ECEA1CKA100B	10 16V	[M]
C306	ECEA1CKA100B	10 16V	[M]
C307	ECJ1VC1H101K	100P 50V	[M]
C308	ECJ1VC1H101K	100P 50V	[M]
C309	ECEA0JKA221B	220 6.3V	[M]
C310	ECEA1HKN2R2B	2.2 50V	[M]
C312	ECEA1HKA4R7B	4.7 50V	[M]
C313	ECUV1C104ZFV	0.1 16V	[M]
C314	F1H1H103A753	0.01 50V	[M]
C315	ECEA1CKA100B	10 16V	[M]
C316	ECEA1HKN2R2B	2.2 50V	[M]
C317	ECEA1HKN2R2B	2.2 50V	[M]
C318	ECJ1VB1E103K	0.01 25V	[M]
C319	ECJ1VB1E103K	0.01 25V	[M]
C320	ECJ1VF1C474Z	0.47 16V	[M]
C321	ECJ1VC1H101K	100P 50V	[M]
C322	ECJ1VB1H102K	1000P 50V	[M]
C323	ECJ1VB1H102K	1000P 50V	[M]
C324	ECJ1VC1H101K	100P 50V	[M]
C325	ECJ1VC1H101K	100P 50V	[M]
C326	ECJ1VC1H101K	100P 50V	[M]
C327	ECEA1HKA010B	1 50V	[M]
C328	ECEA1HKA010B	1 50V	[M]
C329	ECEA1HKA010B	1 50V	[M]
C330	ECEA1CKA100B	10 16V	[M]
C331	F1H1H223A761	0.022 50V	[M]
C333	ECKR1H102ZF5	1000P 50V	[M]
C334	ECJ1VB1H102K	1000P 50V	[M]
C335	ECJ1VB1H102K	1000P 50V	[M]
C336	ECUVNC684KBN	0.68 16V	[M]
C350	ECJ1VC1H101K	100P 50V	[M]
C351	ECUV1H470JCV	47P 50V	[M]
C352	ECJ1VB1E103K	0.01 25V	[M]
C353	ECJ1VC1H101K	100P 50V	[M]
C354	ECUVNA154KBV	0.15 10V	[M]
C355	ECJ1VC1H101K	100P 50V	[M]
C356	F1H1H822A022	8200P 50V	[M]
C357	ECJ1VB1E103K	0.01 25V	[M]
C358	ECEA1CKA220B	22 16V	[M]
C362	ECJ1VB1E103K	0.01 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C363	ECUV1C104KBV	0.1 16V	[M]
C364	ECEA1CM221B	220 16V	[M]
C365	ECJ1VB1E103K	0.01 25V	[M]
C366	ECJ1VB1E103K	0.01 25V	[M]
C367	ECJ1VC1H101K	100P 50V	[M]
C368	ECEA1CKA100B	10 16V	[M]
C369	RCE1HKN100BG	10P 50V	[M]
C370	ECEA1CKA100B	10 16V	[M]
C371	F1H1A2240004	0.22 10V	[M]
C372	ECEA1CM101B	100 16V	[M]
C373	ECUV1H470JCV	47P 50V	[M]
C374	F1H1A2240004	0.22 10V	[M]
C375	F1H1A2240004	0.22 10V	[M]
C376	ECEA1CKA100B	10 16V	[M]
C377	ECJ1VB1C103K	0.01 16V	[M]
C399	ECEA1HKA330B	33 50V	[M]
C401	ECUV1H101JCV	100P 50V	[M]
C402	ECJ1VC1H101K	100P 50V	[M]
C403	ECJ1VB1H221K	220P 50V	[M]
C404	ECEA1HKA100B	10 50V	[M]
C406	ECEA1CKA100B	10 16V	[M]
C407	ECEA1HKA0R1B	0.1 50V	[M]
C408	ECEA1HKA4R7B	4.7 50V	[M]
C409	ECEA1HKA2R2B	2.2 50V	[M]
C410	ECEA1HKA2R2B	2.2 50V	[M]
C411	ECEA1HKA2R2B	2.2 50V	[M]
C412	ECEA1HKA4R7B	4.7 50V	[M]
C413	ECEA1HKA010B	1 50V	[M]
C414	ECEA1CKA100B	10 16V	[M]
C415	ECUV1C104KBV	0.1 16V	[M]
C416	ECEA1HKAR22B	0.22 50V	[M]
C417	ECEA1HKAR22B	0.22 50V	[M]
C418	ECUV1C104KBV	0.1 16V	[M]
C419	ECUV1C104KBV	0.1 16V	[M]
C420	ECJ1VB1H182K	1800P 50V	[M]
C421	ECEA1HKA2R2B	2.2 50V	[M]
C422	ECEA1CKA100B	10 16V	[M]
C424	ECUV1H473KBV	0.047 50V	[M]
C425	ECJ1VC1H101K	100P 50V	[M]
C426	ECEA1HKA3R3B	3.3 50V	[M]
C427	ECJ1VC1H101K	100P 50V	[M]
C428	ECUV1H470JCV	47P 50V	[M]
C429	ECEA1CKA100B	10 16V	[M]
C430	ECEA1CKA100B	10 16V	[M]
C431	ECJ1VB1H102K	1000P 50V	[M]
C432	ECEA1HKA010B	1 50V	[M]
C433	ECJ1VB1H102K	1000P 50V	[M]
C434	ECEA1HKA010B	1 50V	[M]
C435	ECEA1HKA010B	1 50V	[M]
C436	ECJ1VC1H101K	100P 50V	[M]
C437	ECUV1H101JCV	100P 50V	[M]
C438	ECEA1HKA3R3B	3.3 50V	[M]
C439	ECEA1HKA010B	1 50V	[M]
C440	ECEA1HKAR22B	0.22 50V	[M]
C441	ECEA1HKA010B	1 50V	[M]
C442	ECEA1HKA0R1B	0.1 50V	[M]
C449	F1H1C393A089	0.039 16V	[M]
C490	ECJ1VB1H682K	6800P 50V	[M]
C501	ECBT1H821KB5	820P 50V	[M]
C502	ECBT1H821KB5	820P 50V	[M]
C503	ECBT1H821KB5	820P 50V	[M]
C504	ECBT1H821KB5	820P 50V	[M]
C505	ECBT1H821KB5	820P 50V	[M]
C506	ECBT1H821KB5	820P 50V	[M]
C507	ECBT1H220JC5	22P 50V	[M]
C508	ECBT1H220JC5	22P 50V	[M]
C509	ECBT1H220JC5	22P 50V	[M]
C510	ECBT1H220JC5	22P 50V	[M]
C511	ECBT1H220JC5	22P 50V	[M]
C512	ECBT1H220JC5	22P 50V	[M]
C513	ECBT1H473ZF5	0.047 50V	[M]
C514	ECEA0JKA101B	100 6.3V	[M]
C515	ECKR1H103ZF5	0.01 50V	[M]
C516	ECKR1H103ZF5	0.01 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C517	ECBT1H103KB5	0.01 50V	[M]
C521	ECBT1H473KB5	0.047 50V	[M]
C522	ECBT1H473KB5	0.047 50V	[M]
C523	ECBT1H473KB5	0.047 50V	[M]
C524	ECBT1H473KB5	0.047 50V	[M]
C525	ECBT1H473KB5	0.047 50V	[M]
C526	ECBT1H473KB5	0.047 50V	[M]
C527	ECA0JM471B	470 6.3V	[M]
C528	ECA1HM470B	47 50V	[M]
C529	ECQE1104KF3	0.1 100V	[M]
C530	ECQE1104KF3	0.1 100V	[M]
C531	ECEA1HKA2R2B	2.2 50V	[M]
C531	ECBT1H473KB5	0.047 50V	[M]
C532	ECBT1H473KB5	0.047 50V	[M]
C533	ECBT1H473KB5	0.047 50V	[M]
C534	ECBT1H473KB5	0.047 50V	[M]
C535	ECBT1H473KB5	0.047 50V	[M]
C536	ECBT1H473KB5	0.047 50V	[M]
C537	ECBT1H102KB5	1000P 50V	[M]
C538	ECBT1H102KB5	1000P 50V	[M]
C539	ECBT1H102KB5	1000P 50V	[M]
C540	ECBT1H102KB5	1000P 50V	[M]
C570	ECEA1EKA470B	47 25V	[M]
C571	ECKR1H103ZF5	0.01 50V	[M]
C571	F2A1V332A156	3300P 35V	[M]
C572	ECKR1H103ZF5	0.01 50V	[M]
C572	F2A1V562A157	5600P 35V	[M]
C573	ECEA1CM102B	1000 16V	[M]
C573	F2A1V562A157	5600P 35V	[M]
C574	ECEA1CM102B	1000 16V	[M] GC
C574	F2A1V332A156	3300P 35V	[M]
C575	ECA1HM470B	47 50V	[M]
C575	ECEA1VKA4R7B	4.7 35V	[M]
C576	ECA1CM331B	330 16V	[M]
C576	ECA1HM101B	100 50V	[M]
C577	ECA1EM331B	330 25V	[M]
C577	ECKR1H103ZF5	0.01 50V	[M]
C578	ECA1JM101B	100P 63V	[M]
C578	ECKR1H103MD5	0.01 50V	[M]
C579	ECA1HM470B	47 50V	[M]
C579	ECKR1H103MD5	0.01 50V	[M]
C580	ECA1HM470B	47 50V	[M]
C580	ECA2AM100B	10 100V	[M]
C581	ECEA1CKA100B	10 16V	[M] GN
C581	ECKR1H102ZF5	1000P 50V	[M] GC
C581	F2A1E222A172	2200P 25V	[M]
C582	ECEA1HKA100B	10 50V	[M]
C583	ECQV1H104JZ3	0.1 50V	[M]
C601	ECEA1VKA220B	22 35V	[M]
C602	ECEA1VKA220B	22 35V	[M]
C603	ECUV1C104ZFV	0.1 16V	[M]
C604	ECJ1VC1H101K	100P 50V	[M]
C605	ECJ1VC1H101K	100P 50V	[M]
C606	F1H1H223A761	0.022 50V	[M]
C607	F1H1H331A022	330P 50V	[M]
C608	ECUV1H561KBV	560P 50V	[M]
C609	F1H1H331A022	330P 50V	[M]
C610	ECJ1VC1H150J	15P 50V	[M]
C611	ECJ1VC1H180J	18P 50V	[M]
C612	ECUV1H680JCV	68P 50V	[M]
C613	ECUV1H680JCV	68P 50V	[M]
C614	ECJ1VC1H560J	56P 50V	[M]
C615	ECJ1VB1H102K	1000P 50V	[M]
C616	ECJ1VC1H560J	56P 50V	[M]
C617	ECJ1VB1H102K	1000P 50V	[M]
C618	F1H1H331A022	330P 50V	[M]
C619	ECEA1HKA3R3B	3.3 50V	[M]
C620	ECUV1H561KBV	560P 50V	[M]
C621	ECUV1H561KBV	560P 50V	[M]
C622	ECUV1H561KBV	560P 50V	[M]
C623	ECUV1H561KBV	560P 50V	[M]
C624	ECUV1H561KBV	560P 50V	[M]
C625	ECUV1H561KBV	560P 50V	[M]
C626	ECUV1H561KBV	560P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C627	ECUV1H561KBV	560P 50V	[M]
C628	ECUV1H561KBV	560P 50V	[M]
C629	ECUV1H561KBV	560P 50V	[M]
C630	ECJ1VB1H103K	0.01 50V	[M]
C631	ECEA1HKA010B	1 50V	[M]
C632	ECEA1HKA2R2B	2.2 50V	[M]
C633	ECEA0JKA101B	100 6.3V	[M]
C634	ECJ1VB1H102K	1000P 50V	[M]
C635	F2A0J102A204	1000P 6.3V	[M]
C636	ECJ1VB1H102K	1000P 50V	[M]
C637	F1H1H103A753	0.01 50V	[M]
C638	ECEA1AKA220B	22 10V	[M]
C639	ECUV1H561KBV	560P 50V	[M]
C640	ECUV1H561KBV	560P 50V	[M]
C641	ECUV1H561KBV	560P 50V	[M]
C642	ECUV1H561KBV	560P 50V	[M]
C643	ECJ1VB1H103K	0.01 50V	[M]
C644	ECJ1VC1H101K	100P 50V	[M]
C645	ECUV1C104ZFV	0.1 16V	[M]
C646	ECJ1VC1H101K	100P 50V	[M]
C647	ECJ1VC1H101K	100P 50V	[M]
C648	ECUV1H561KBV	560 50V	[M]
C701	ECEA0JKA330I	33 6.3V	[M]
C702	ECUV1C104KBV	0.1 16V	[M]
C703	ECEA0JKA101I	100 6.3V	[M]
C704	ECUV1C104KBV	0.1 16V	[M]
C706	ECJ1VB1H272K	2700P 50V	[M]
C707	F1H1E273A074	0.027 25V	[M]
C710	F1H1H121A755	120P 50V	[M]
C711	ECUV1C104ZFV	0.1 16V	[M]
C712	ECUV1C104ZFV	0.1 16V	[M]
C713	ECUV1C104KBV	0.1 16V	[M]
C714	ECEA0JKA101I	100 6.3V	[M]
C715	ECJ1VB1H272K	2700P 50V	[M]
C716	ECJ2VB1H821K	820P 50V	[M]
C717	ECUV1C104ZFV	0.1 16V	[M]
C718	F1H1A2240004	0.22 10V	[M]
C721	ECJ1VC1H100D	10P 50V	[M]
C722	ECJ1VC1H100D	10P 50V	[M]
C723	ECEA1AKA221I	220 10V	[M]
C724	ECJ2ZB1E104M	0.1 25V	[M]
C725	ECJ1VB1H102K	1000P 50V	[M]
C726	ECJ1VB1H102K	1000P 50V	[M]
C727	ECA1HAK010XI	1 50V	[M]
C728	ECA1HAK010XI	1 50V	[M]
C730	ECUV1C104ZFV	0.1 16V	[M]
C731	ECEA0JKA221I	220 6.3V	[M]
C732	ECEA0JKA221I	220 6.3V	[M]
C733	ECUV1C104KBV	0.1 16V	[M]
C734	ECEA1AKA221I	220 10V	[M]
C735	ECUVNE104ZFN	0.1 25V	[M]
C736	ECUV1C104ZFV	0.1 16V	[M]
C737	ECUV1C104ZFV	0.1 16V	[M]
C738	ECJ2VB1H103K	0.01 50V	[M]
C739	ECUV1H152KBV	1500P 50V	[M]
C742	F1H1E273A074	0.027 25V	[M]
C743	ECUV1C104ZFV	0.1 16V	[M]
C744	ECJ1VB1H562K	5600P 50V	[M]
C745	ECJ1VB1H102K	1000P 50V	[M]
C747	F1H1H181A797	180P 50V	[M]
C749	ECJ1VB1H222K	2200P 50V	[M]
C750	ECJ2ZB1E104M	0.1 25V	[M]
C751	ECUV1C104KBV	0.1 16V	[M]
C752	ECJ1VB1H102K	1000P 50V	[M]
C753	ECJ1VB1H471K	470P 50V	[M]
C754	ECJ1VB1H471K	470P 50V	[M]
C801	ECUV1C104KBV	0.1 16V	[M]
C802	ECEA1HKA4R7B	4.7 50V	[M]
C803	ECUV1C104KBV	0.1 16V	[M]
C804	ECEA1CKA101B	100 16V	[M]
C805	F1H1H103A753	0.01 50V	[M]
C806	ECUV1C104ZFV	0.1 16V	[M]
C807	ECUV1C104ZFV	0.1 16V	[M]
C808	VCEA1CJH221B	220P 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C809	ECUV1C104ZFV	0.1 16V	[M]
C810	VCEA1CJH221B	220P 16V	[M]
C811	ECJ1VB1H103K	0.01 50V	[M]
C812	ECJ1VB1H103K	0.01 50V	[M]
C813	ECEA1CKA100B	10 16V	[M]
C814	ECJ1VB1H103K	0.01 50V	[M]
C815	ECJ1VB1H103K	0.01 50V	[M]
C816	ECEA1CKA100B	10 16V	[M]
C817	F1H1H103A753	0.01 50V	[M]
C818	F1H1H103A753	0.01 50V	[M]
C820	F1H1H103A753	0.01 50V	[M]
C821	ECUV1C104KBV	0.1 16V	[M]
C822	ECUV1C104KBV	0.1 16V	[M]
C823	ECUV1C104KBV	0.1 16V	[M]
C824	ECEA1CKA220B	22 16V	[M]
C825	ECEA1CKA100B	10 16V	[M]
C826	ECUV1C104KBV	0.1 16V	[M]
C827	ECUV1C104KBV	0.1 16V	[M]
C828	ECUV1C104KBV	0.1 16V	[M]
C829	ECEA1CKA100B	10 16V	[M]
C830	ECUV1C104KBV	0.1 16V	[M]
C831	ECUV1C104KBV	0.1 16V	[M]
C832	VCEA1CJH101B	100P 16V	[M]
C833	ECUV1C104KBV	0.1 16V	[M]
C834	ECJ1VC1H220J	22P 50V	[M]
C835	ECJ1VC1H220J	22P 50V	[M]
C836	ECUV1C104KBV	0.1 16V	[M]
C837	VCEA1CJH101B	100P 16V	[M]
C838	VCEA1CJH101B	100P 16V	[M]
C839	ECUV1C104KBV	0.1 16V	[M]
C840	ECJ1VC1H101K	100P 50V	[M]
C841	F1H1H121A755	120P 50V	[M]
C842	ECUV1A474KBV	0.47 10V	[M]
C843	ECJ1VB1H103K	0.01 50V	[M]
C844	ECUV1C104KBV	0.1 16V	[M]
C845	VCEA1CJH101B	100P 16V	[M]
C846	ECUV1C104KBV	0.1 16V	[M]
C847	VCEA1CJH101B	100P 16V	[M]
C848	ECUV1C104ZFV	0.1 16V	[M]
C849	VCEA1CJH101B	100P 16V	[M]
C850	ECEA1CKA100B	10 16V	[M]
C851	ECUV1C104ZFV	0.1 16V	[M]
C852	ECUV1C104ZFV	0.1 16V	[M]
C853	ECJ1VB1H102K	1000P 50V	[M]
C854	ECUV1C104ZFV	0.1 16V	[M]
C855	F1H1H103A753	0.01 50V	[M]
C856	ECEA1CKA101B	100 16V	[M]
C862	ECJ1VC1H101K	100P 50V	[M]
C863	ECJ1VC1H101K	100P 50V	[M]
C864	ECJ1VC1H470K	47P 50V	[M]
C874	ECJ1VC1H470K	47P 50V	[M]
C875	ECJ1VC1H470K	47P 50V	[M]
C876	ECUV1C104ZFV	0.1 16V	[M]
C901	ECJ1VC1H101K	100P 50V	[M]
C902	ECJ1VC1H101K	100P 50V	[M]
C903	F1H1H103A753	0.01 50V	[M]
C904	ECEA0JKA470B	47 6.3V	[M]
C905	ECJ1VB1H102K	1000P 50V	[M]
C906	F1H1H223A761	0.022 50V	[M]
C907	ECJ1VB1H102K	1000P 50V	[M]
C908	F1H1C473A088	0.047 16V	[M]
C909	ECJ1VB1C103K	0.01 16V	[M]
C1101	ECA1HAK010XB	1 50V	[M]
C1102	ECJ1VB1H471K	470P 50V	[M]
C1103	ECA1CAK101XB	100 16V	[M]
C1104	F1H1C183A089	0.018 16V	[M]
C1105	ECJ1VB1H471K	470P 50V	[M]
C1106	ECA1HAK2R2XB	2.2 50V	[M]
C1107	ECUV1H152KBV	1500P 50V	[M]
C1108	ECA1CAK100XB	10 16V	[M]
C1109	ECA1HAK3R3XB	3.3 50V	[M]
C1121	ECJ1VB1H102K	1000P 50V	[M]
C1122	ECJ1VB1H103K	0.01 50V	[M]
C1123	ECUV1H271KBV	270P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1201	ECA1HAK010XB	1 50V	[M]
C1202	ECJ1VB1H471K	470P 50V	[M]
C1203	ECA1CAK101XB	100 16V	[M]
C1204	F1H1C183A089	0.018 16V	[M]
C1205	ECJ1VB1H471K	470P 50V	[M]
C1206	ECA1HAK2R2XB	2.2 50V	[M]
C1207	ECUV1H152KBV	1500P 50V	[M]
C1208	ECA1CAK100XB	10 16V	[M]
C1209	ECA1HAK3R3XB	3.3 50V	[M]
C1221	ECJ1VB1H102K	1000P 50V	[M]
C1222	ECJ1VB1H103K	0.01 50V	[M]
C1223	ECUV1H271KBV	270P 50V	[M]
C1301	ECEA1HKA0R1B	0.1 50V	[M]
C1302	ECUVNC333KBV	0.033 16V	[M]
C1303	ECUVNC333KBV	0.033 16V	[M]
C1304	ECEA1HKA4R7B	4.7 50V	[M]
C1305	ECA1CAK330XB	33 16V	[M]
C1306	ECUV1C104KBV	0.1 16V	[M]
C1307	ECA1AAK221XQ	220 10V	[M]
C1308	ECA1CAK220XB	22 16V	[M]
C1310	ECA1HAK0R1XB	0.1 50V	[M]
C1311	ECA1CAK470XB	47 16V	[M]
C1312	ECJ1VB1H332K	3300P 50V	[M]
C1314	ECJ1VB1H222K	2200P 50V	[M]
C1315	ECJ1VB1H222K	2200P 50V	[M]
C1316	ECJ1VB1H102K	1000P 50V	[M]
C1317	ECJ1VB1H102K	1000P 50V	[M]
C1318	ECQV1H473JZ3	0.047 50V	[M]
C1319	ECA1CAK101XB	100 16V	[M]
C1320	ECA1HAK010XB	1 50V	[M]
C1321	F0A2A472A015	4700P 100V	[M]
C1322	ECQP2A102JZT	1000P 100V	[M]
C1323	ECEA1HKN010B	1 50V	[M]
C1324	ECA1CAK470XB	47 16V	[M]
C1325	ECJ1VB1E103K	0.01 25V	[M]
C1326	ECA1CAK100XB	10 16V	[M]
C1371	ECJ1VB1H103K	0.01 50V	[M]
C3200	ECEA1CKA220B	22 16V	[M]
C3201	ECJ1VB1H102K	1000P 50V	[M]
C3202	ECEA1CKA100B	10 16V	[M]
C3203	ECUV1C104KBV	0.1 16V	[M]
C3204	ECEA1CKA100B	10 16V	[M]
C3205	ECJ1VB1H222K	2200P 50V	[M]
C3206	ECEA1CKA100B	10 16V	[M]
C3207	ECJ1VB1H222K	2200P 50V	[M]
C3208	ECEA1CKA100B	10 16V	[M]
C3209	ECJ1VB1H222K	2200P 50V	[M]
C3210	ECEA1HKA010B	1 50V	[M]
C3211	ECJ1VC1H101K	100P 50V	[M]
C3212	ECEA1AKA330B	33 10V	[M]
C3213	ECEA1CKA100B	10 16V	[M]
C3214	ECEA1HKAR15B	0.15 50V	[M]
C3215	ECEA1AKA330B	33 10V	[M]
C3216	ECEA1HKA3R3B	3.3 50V	[M]
C3217	ECJ1VC1H101K	100P 50V	[M]
C3218	ECEA1HKA010B	1 50V	[M]
C3300	ECEA1HKA010B	1 50V	[M]
C3301	ECJ1VB1H221K	220P 50V	[M]
C3302	ECEA1CKA100B	10 16V	[M]
C3303	ECEA1CKA100B	10 16V	[M]
C3304	ECEA1CKA100B	10 16V	[M]
C3305	ECEA1HKA010B	1 50V	[M]
C3306	ECEA1CKA100B	10 16V	[M]
C3307	ECJ1VB1H221K	220P 50V	[M]
C3308	ECEA1CKA100B	10 16V	[M]
C3309	ECEA1CKA220B	22 16V	[M]
C3310	ECEA1CKA330B	33 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C3311	ECEA1CKA330B	33 16V	[M]
C3312	ECJ1VC1H101K	100P 50V	[M]
C3313	ECJ1VC1H470K	47P 50V	[M]
C3314	ECEA1HKA010B	1 50V	[M]
C3315	ECEA1CKA330B	33 16V	[M]
C3316	ECJ1VC1H101K	100P 50V	[M]
C3317	ECJ1VB1H102K	1000P 50V	[M]
C3318	ECEA1CKA100B	10 16V	[M]
C3319	ECJ1VB1H682K	6800P 50V	[M]
C3321	ECEA1CKA330B	33 16V	[M]
C3322	ECEA1HKA010B	1 50V	[M]
C3323	ECEA1HKA010B	1 50V	[M]
C3400	ECEA1CKA220B	22 16V	[M]
C3401	ECJ1VB1H102K	1000P 50V	[M]
C3402	ECEA1CKA100B	10 16V	[M]
C3403	ECUV1C104KBV	0.1 16V	[M]
C3404	ECEA1CKA100B	10 16V	[M]
C3405	ECJ1VB1H222K	2200P 50V	[M]
C3406	ECEA1CKA100B	10 16V	[M]
C3407	ECJ1VB1H222K	2200P 50V	[M]
C3408	ECEA1CKA100B	10 16V	[M]
C3409	ECJ1VB1H222K	2200P 50V	[M]
C3410	ECEA1HKA010B	1 50V	[M]
C3411	ECJ1VC1H101K	100P 50V	[M]
C3412	ECEA1AKA330B	33 10V	[M]
C3413	ECEA1CKA100B	10 16V	[M]
C3414	ECEA1HKAR15B	0.15 50V	[M]
C3415	ECEA1AKA330B	33 10V	[M]
C3416	ECEA1HKA3R3B	3.3 50V	[M]
C3417	ECJ1VC1H101K	100P 50V	[M]
C3418	ECEA1HKA010B	1 50V	[M]
		CHIP JUMPER	
RJ701	ERJ6GEY0R00V	0 1/10W	[M]
RJ702	ERJ6GEY0R00V	0 1/10W	[M]
RJ704	ERJ6GEY0R00V	0 1/10W	[M]
RJ710	ERJ6GEY0R00V	0 1/10W	[M]
RJ712	ERJ6GEY0R00V	0 1/10W	[M]
RJ713	ERJ6GEY0R00V	0 1/10W	[M]
RJ714	ERJ6GEY0R00V	0 1/10W	[M]
RJ721	ERJ3GEY0R00V	0 1/16W	[M]
RJ722	ERJ3GEY0R00V	0 1/16W	[M]
RJ723	ERJ3GEY0R00V	0 1/16W	[M]
RJ724	ERJ3GEY0R00V	0 1/16W	[M]
RJ725	ERJ3GEY0R00V	0 1/16W	[M]
RJ726	ERJ3GEY0R00V	0 1/16W	[M]
RJ727	ERJ3GEY0R00V	0 1/16W	[M]
RJ728	ERJ3GEY0R00V	0 1/16W	[M]
RJ729	ERJ3GEY0R00V	0 1/16W	[M]
RJ730	ERJ3GEY0R00V	0 1/16W	[M]
RJ731	ERJ3GEY0R00V	0 1/16W	[M]
RJ732	ERJ3GEY0R00V	0 1/16W	[M]
RJ733	ERJ3GEY0R00V	0 1/16W	[M]
RJ734	ERJ3GEY0R00V	0 1/16W	[M]
RJ735	ERJ3GEY0R00V	0 1/16W	[M]
RJ736	ERJ3GEY0R00V	0 1/16W	[M]
RJ737	ERJ3GEY0R00V	0 1/16W	[M]
RJ738	ERJ3GEY0R00V	0 1/16W	[M]
RJ739	ERJ3GEY0R00V	0 1/16W	[M]
RJ740	ERJ3GEY0R00V	0 1/16W	[M]
RJ741	ERJ3GEY0R00V	0 1/16W	[M]
RJ742	ERJ3GEY0R00V	0 1/16W	[M]
		TEST JUMPER	
TJ701	EYF8CU	TEST JUMPER	[M]

20.5. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX0872	PACKING CASE	[M] GN
P1	RPGX0873	PACKING CASE	[M] GC
P2	RPN1406-1	POLYFOAM	[M]
P3	RPFX0007	MIRAMAT BAG	[M]
		ACCESSORIES	
A1	N2QAGB000018	REMOTE CONTROLLER	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
A1-1	251200F1F	R/C BATTERY COVER	[M]
A2	RJA0019-2X	AC CORD	[M] GC ⚠
A2	RJA0035-X	AC CORD (SF)	[M] GN ⚠
A3	RQT6246-B	O/I BOOK (EN)	[M] GN
A3	RQT6247-G	O/I BOOK (EN/CN/AR)	[M] GC
A3	RQT6248-R	O/I BOOK (RU/SP)	[M] GC
A4	RSA0006-J	FM ANTENNA	[M]
A5	RSA0033	AM LOOP ANTENNA	[M]
A6	SJP5213-2	AC CORD ADAPTOR	[M] GC

20.6. Packaging