

Service Manual

CD Stereo System



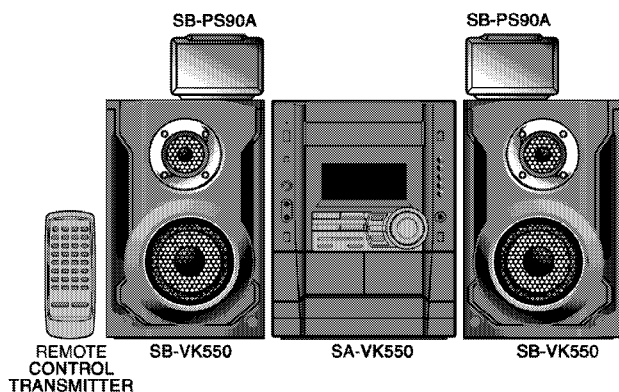
SA-VK550GC

Colour

(K)... Black Type

TAPE SECTION :

AR2 MECHANISM SERIES



Specifications

■ AMPLIFIER SECTION

PMPO	2500 W
RMS power output	
THD 10% both channel driven	
8 kHz (High channels)	62 W per channel (6 Ω)
1 kHz (Low channels)	58 W per channel (6 Ω)
Total Bi-Amp power	120 W per channel
Input sensitivity	
AUX	250 mV
MIC	0.7 mV
Input Impedance	
AUX	13.3 k Ω
MIC	680 Ω

■ FM TUNER SECTION

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

■ AM TUNER SECTION

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

■ 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
Frequency response (+3 dB, -6 dB at DECK OUT)	
NORMAL (TYPE I)	35 Hz - 14 kHz
HIGH (TYPE II)	35 Hz - 14 kHz
S/N	50 dB (A weighted)
Wow and flutter	0.18 % (WRMS)
Fast forward and rewind time	Approx. 120 seconds with C-60 cassette tape

■ CD SECTION

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam source/wave length	Semiconductor laser/780 nm
Number of channels	Stereo
Frequency response	20 Hz - 20 kHz (+1, -2 dB)
Wow and flutter	Below measurable limit
Digital filter	8 fs
D/A converter	MASH (1 bit DAC)

Panasonic

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Video CD		Power consumption in standby mode	
Video data	Based on MPEG 1		Approx. 0.9 W
Audio data	Based on MPEG 1/ Layer 2	Dimensions (W x H x D)	250 x 335 x 354 mm
Video output		Mass	8.1 kg
Video format	NTSC/PAL	■ SYSTEM	
Output voltage	1 Vp-p, 75Ω	SC-VK550(GC)	Main unit: SA-VK550(GC)
Phisical format	Based on CD-ROM format		Front speakers: SB-VK550(GC)
MP3			Surround speakers: SB-PS90A(GC)
MP3 decode	Based on MPEG 1/ Layer 3	Notes:	
Bitrate	32 kbps - 320 kbps	1. Specifications are subject to change without notice. Mass and dimensions are aproximate.	
Sampling frequency	32 kHz, 44.1 kHz, 48 kHz	2. Total harmonic distortion is measured by the digital spectrum analyzer.	
■ GENERAL			
Power supply	AC 110 V/127 V/220 - 230 V/ 240 V, 50/60 Hz	3. The labels “HIGH” and “LOW” on the rear of the speakers refer to High frequency and Low frequency.	
Power consumption	220 W		

WARNING

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

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1 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 C528, C529 & C960 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 110 V, 50 Hz and AC 240 V, 50 Hz in NO SIGNAL mode should be ~600mA and ~600mA respectively.

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.

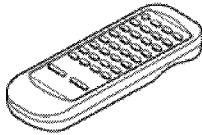
If this occurs, follow the procedure outlines below:

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.

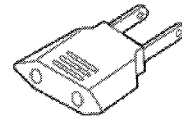
Note:

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

4 Accessories



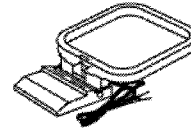
Remote Control
Transmitter



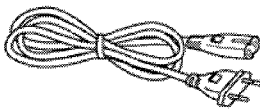
Power plug adaptor



FM indoor antenna



AM Loop antenna



AC power supply cord



Video connection

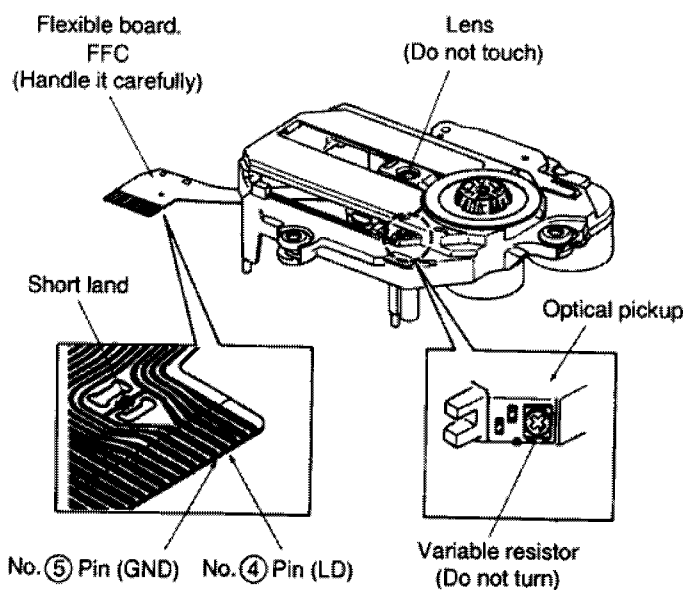
5 Handling Precautions For Traverse Deck

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 finish the work quickly.
3. Take care not to apply excessive stress to the flexible board (FFC).
4. Do not turn the variable resistor (laser power adjustment). It has already been adjusted.



• Grounding for electrostatic breakdown prevention

1. Human body grounding

Use the anti-static wrist strap to discharge the static electricity from your body.

2. Work table grounding

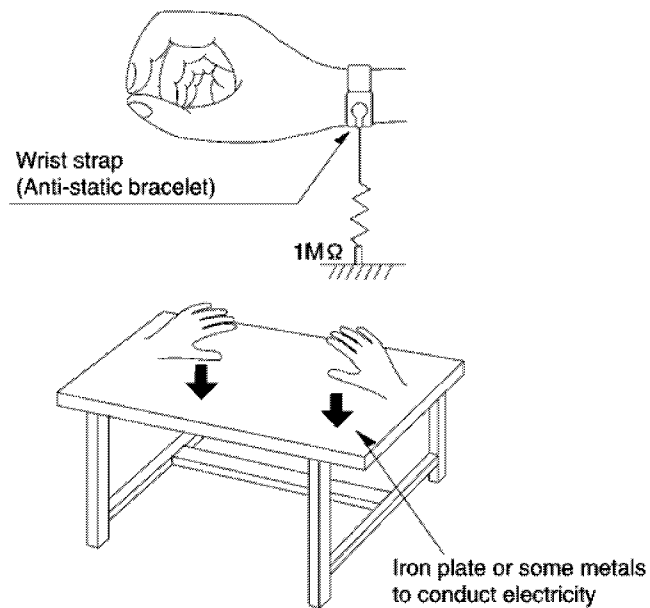
Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

Caution :

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

Caution when Replacing the Traverse Deck :

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



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 μ W/VDE

Laser radiation from pick up unit is safety level, but be sure the followings:

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

ACHTUNG :

Dieses Produkt enthält eine Lasereinheit. Im eingeschalteten Zustand wird unsichtbare Laserstrahlung von der Lasereinheit abgestrahlt.

Wellenlänge : 780nm

Maximale Strahlungsleistung der Lasereinheit :100W/VDE

Die Strahlung an der Lasereinheit ist ungefährlich, wenn folgende Punkte beachtet werden:

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

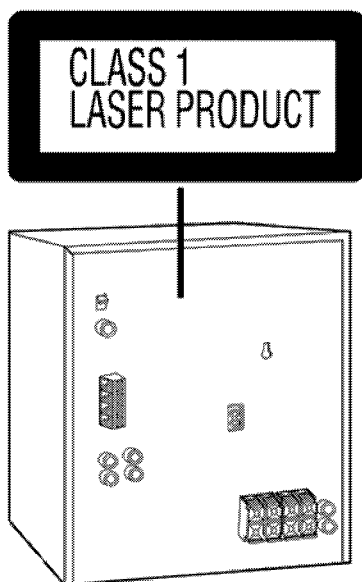
ADVARSEL: I dette a apparat anvendes laser.

CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

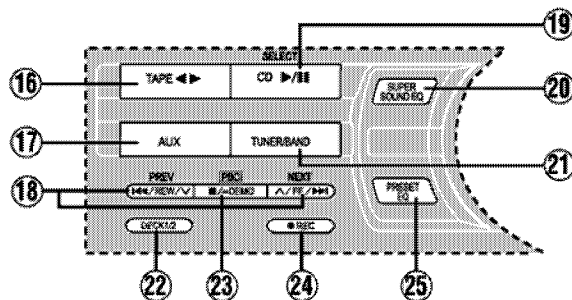
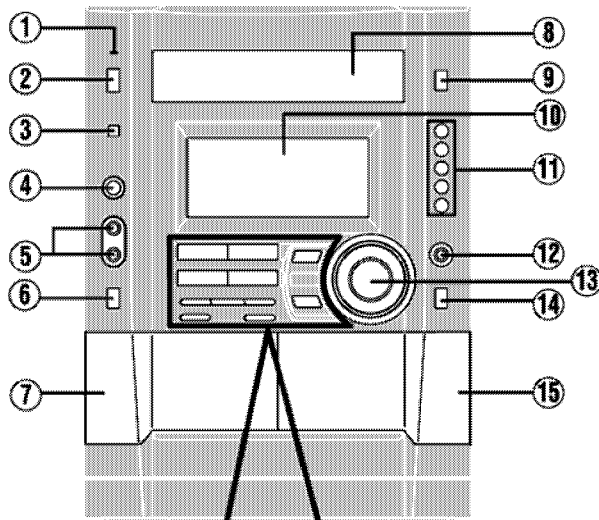
■ Use of Caution Labels



DANGER	INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING. UNNGÅ DIREKTE EKSPOSISJON FOR STRÅLING.
VARO!	AVIATTAESSA RA-SÄIKSIIN LUOTUS OHITETTÄESSÄ OLETTA NÄKYMÄTTÖMÄ LASERKÄTEILYÄ. ÄLÄ KATSO SÄTEILYÄ.
VARNING	OSYNLIG LASERSTRÅLING NÄR ENHETEN ÅPPNAS. SPARERIN ÅR LÖSNOPPLAD. BEHÅLLTÄLJ SÄTEILIN.
ADVARSEL	USYNLIG LASERSTRÅLING NÄR ENHETEN ÅPPNES. UNNGÅ DIREKTE EKSPOSISJON FOR STRÅLING.
VORSICHT	UNSICHTBARE LASERSTRABHLUNG, WENN ABERICHLUNG GEÖFFNET. NICHT DEM STRAH. AUSSETZEN.

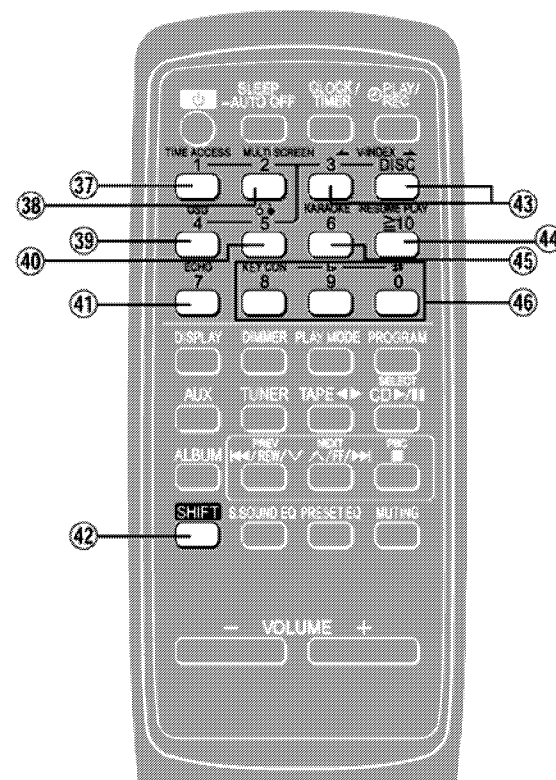
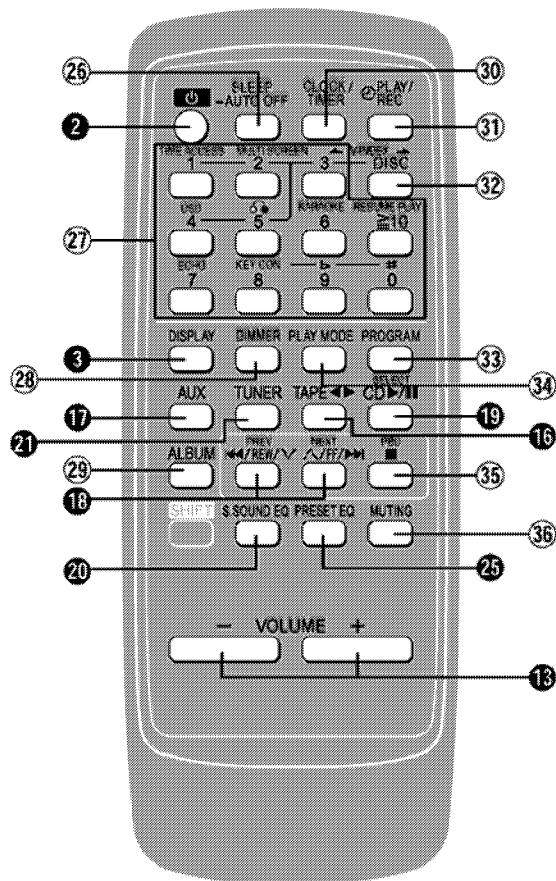
Inside of product

7 Operation Procedures



Location of controls

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	Microphone volume control (MIC VOL)
⑤	Microphone jacks (MIC 1, 2)
⑥	Deck 1 open button (⏏ DECK 1 OPEN)
⑦	Deck 1 cassette holder
⑧	Disc tray
⑨	CD tray open/close button (⏏ OPEN/CLOSE)
⑩	Display
⑪	Disc direct play buttons (1 ~ 5)
⑫	Headphone jack (PHONES)
⑬	Volume control (VOLUME DOWN, UP)
⑭	Deck 2 open button (⏏ DECK 2 OPEN)
⑮	Deck 2 cassette holder
⑯	Tape play/direction button (TAPE ◀ ▶)
⑰	AUX button (AUX)
⑱	CD skip/search/previous/next, tape fast-forward/rewind, tune/preset channel select, time adjust buttons (◀◀/REW/∨, PREV, ∧/FF/▶▶, NEXT)
⑲	CD play/pause, select button (CD ▶/II, SELECT)
⑳	Super sound EQ button and indicator (SUPER SOUND EQ)
㉑	Tuner/band select button (TUNER/BAND)
㉒	Deck select button (DECK1/2)
㉓	Stop/program clear, demonstration, PBC on/off button (■/-DEMO, PBC)
㉔	Record button (● REC)
㉕	Preset EQ select button (PRESET EQ)



The remote control

Buttons

The names of the buttons on the remote control are colour-coded to distinguish function and usage. The buttons labelled in blue are used with menu play. (menu play: see page 22.)

Buttons such as ② function in exactly the same way as the buttons on the main unit.

No.	Name
②⑥	Sleep timer/auto off button (SLEEP, -AUTO OFF)
②	Standby/on button (⏻)
②⑦	Numeric buttons (≥10, 1-9, 0)
③	Display button (DISPLAY)
②⑧	Dimmer button (DIMMER)
①⑦	AUX button (AUX)
②①	Tuner/band select button (TUNER)
②⑨	Album button (ALBUM)
①⑧	CD skip/search/previous/next, tape fast-forward/rewind, tune/preset channel select, time adjust buttons (⏮/REW/V, PREV, ⏭/FF/▶▶, NEXT)
②⑩	Super sound EQ button (S.SOUND EQ)
③⑦	Clock/timer button (CLOCK/TIMER)
③①	Play timer/record timer button (⌚PLAY/REC)
③②	Disc button (DISC)
③③	Program button (PROGRAM)
③④	Play mode select button (PLAY MODE)
Use this for selecting repeat mode, CD play mode, tape reverse mode, deck select, tune mode, FM mode and AM beat proof.	
①⑨	CD play/pause, select button (CD ▶/II, SELECT)
①⑥	Tape play/direction button (TAPE ◀▶)
③⑤	Stop/program clear, PBC on/off button (■, PBC)
③⑥	Muting button (MUTING)
②⑤	Preset EQ select button (PRESET EQ)
①③	Volume buttons (- VOLUME +)

To operate functions labelled in orange, press [SHIFT] (④②) and the corresponding button at the same time.

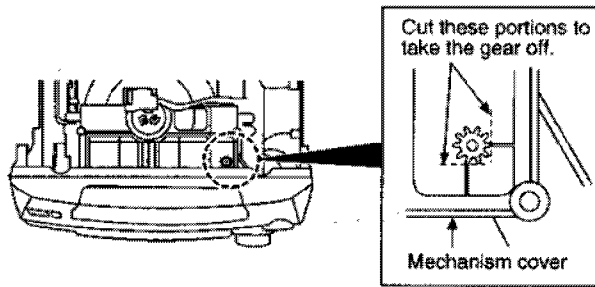
③⑦	Time access button (TIME ACCESS)
③⑧	Multi screen button (MULTI SCREEN)
③⑨	On-screen display button (OSD)
④①	Return button (↶)
④③	Echo button (ECHO)
④④	Video index button (⏮V-INDEX⏭)
④⑤	Resume play button (RESUME PLAY)
④⑥	Karaoke button (KARAOKE)
④⑦	Key control buttons (KEY CON, b, #)

8 Disassembly and Main Component Replacement Procedures

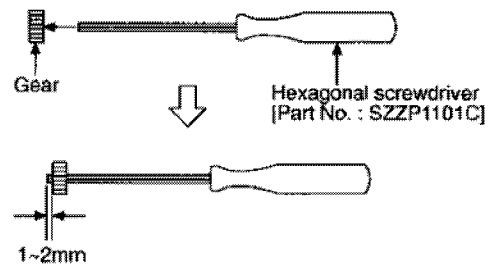
Gear for servicing (jig) information

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.

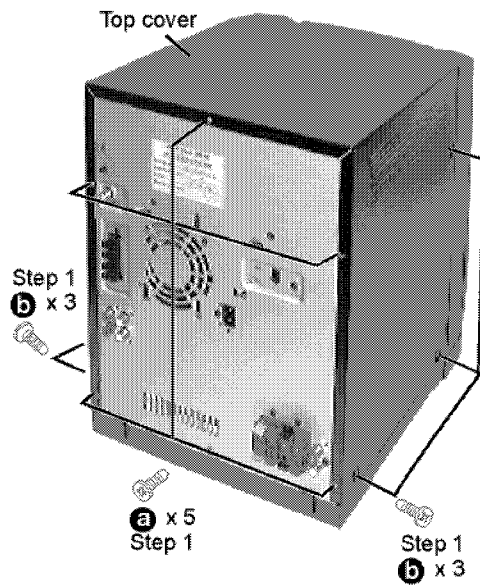
1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures.**
Special reassembly procedures are described only when required.
3.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

Warning:

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

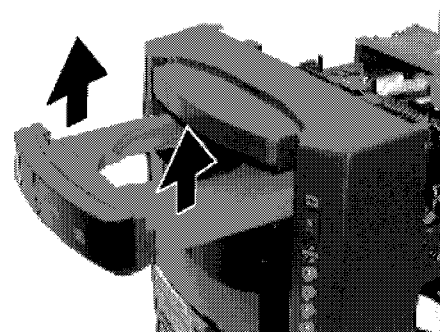
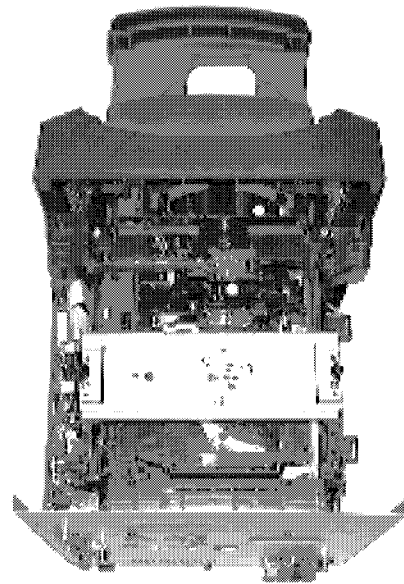
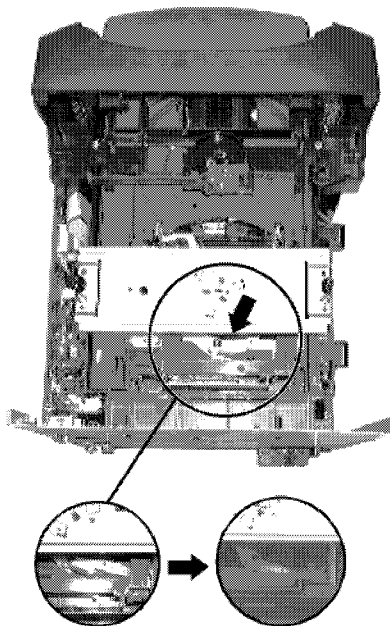
8.1. Disassembly Procedure for each major P.C.B.

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

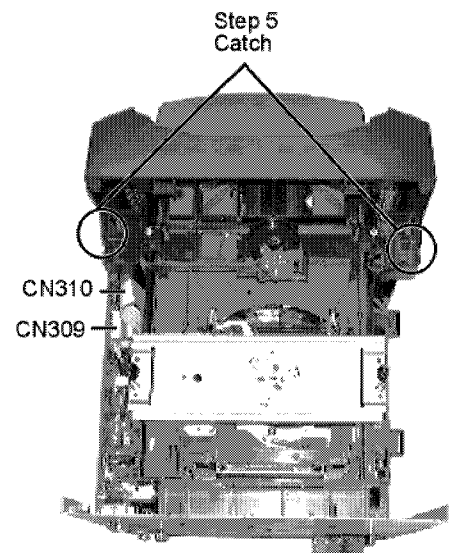


Step 1 Remove 11 screw.

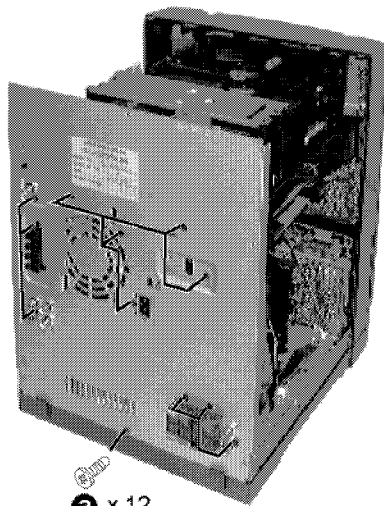
Step 2 Push the lever in the direction of the arrow.



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.

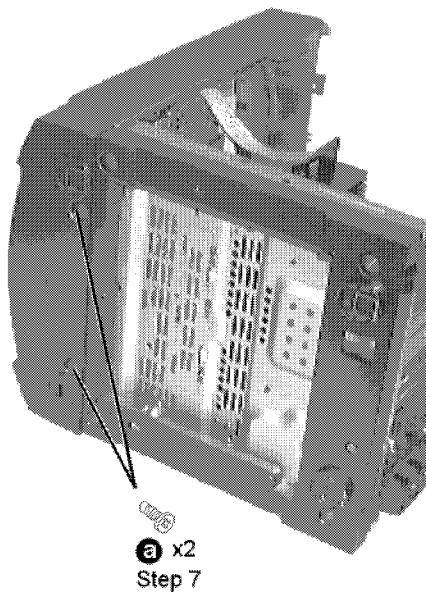


Step 5 Release the 2 catches, disconnect CN309 and CN310 remove the CD changer base together with the CD changer.



a x 12
Step 6

Step 6 Remove 12 screws.

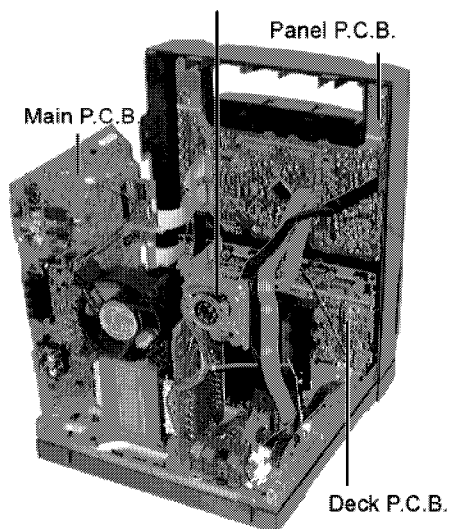


a x 2
Step 7

Step 7 Remove 4 screws.

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

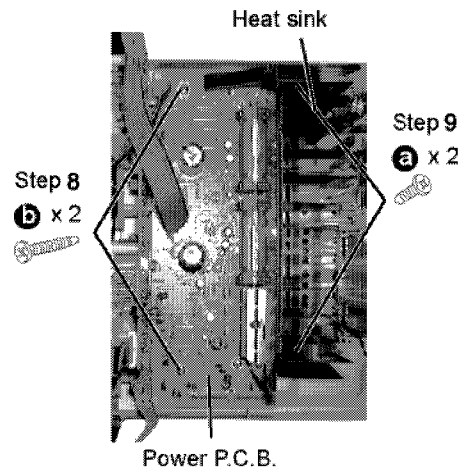
Sub-Transformer P.C.B.



Main P.C.B.

Panel P.C.B.

Deck P.C.B.



Step 8

b x 2

Heat sink

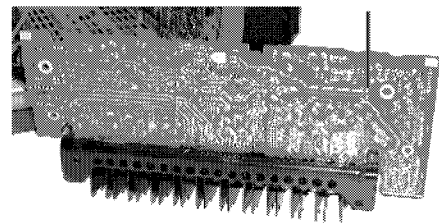
Step 9

a x 2

Power P.C.B.

• **Checking for Power P.C.B.**

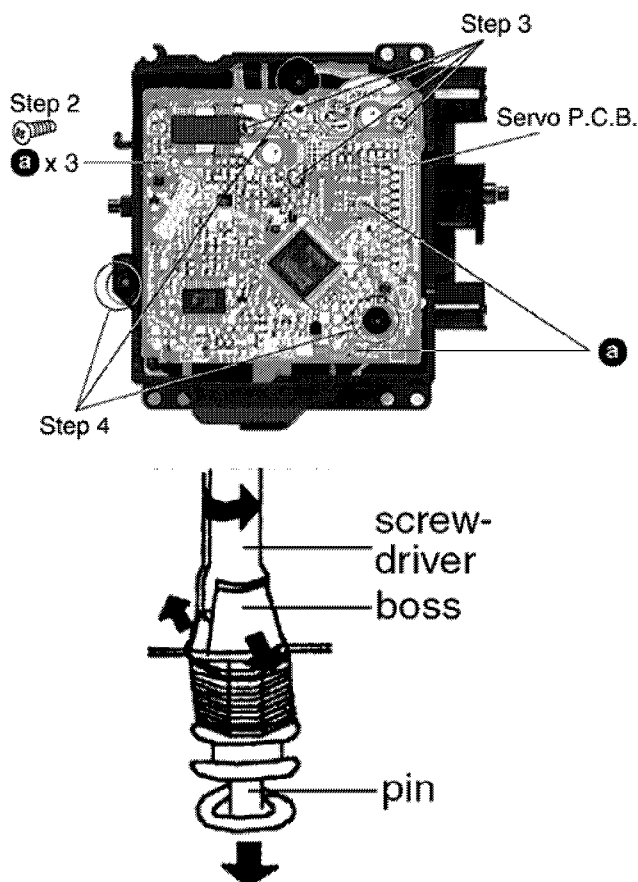
Power P.C.B.



8.2. Main Component Replacement Procedures

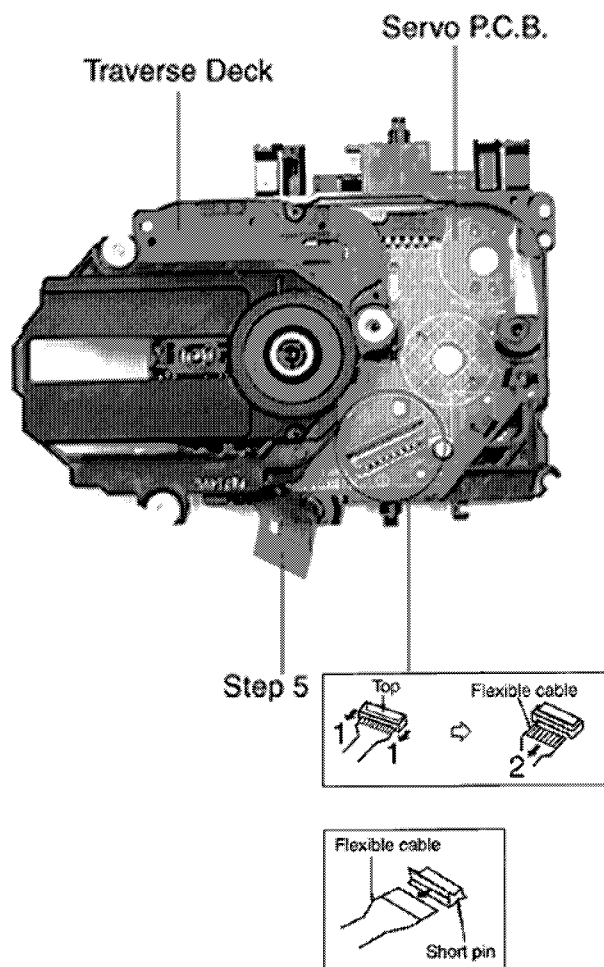
8.2.1. Replacement of the Traverse Deck

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.

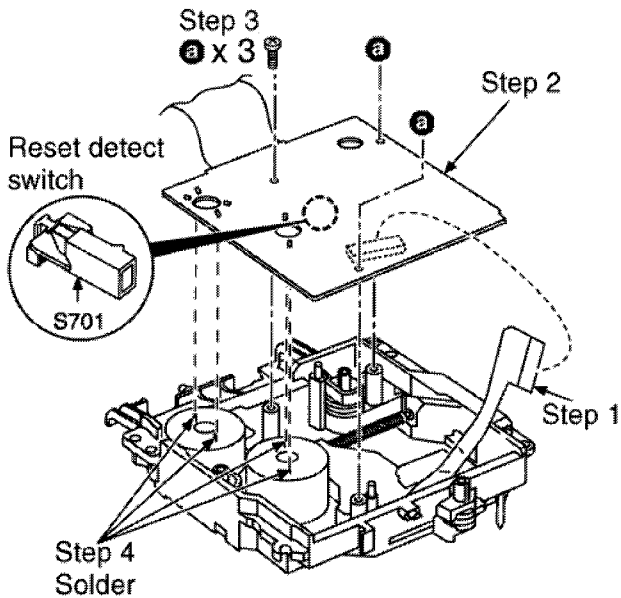
Note:

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.

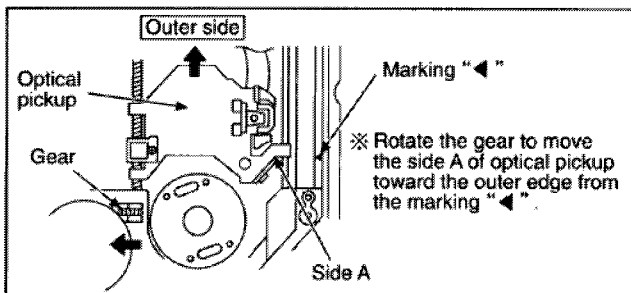
Step 2 Install the CD servo P.C.B. in the traverse deck assembly.



Note:

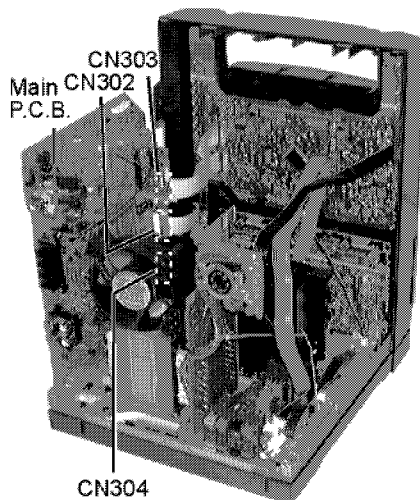
Before installing the CD servo P.C.B., move the optical pickup towards the outer edge from the marking (black triangle).

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

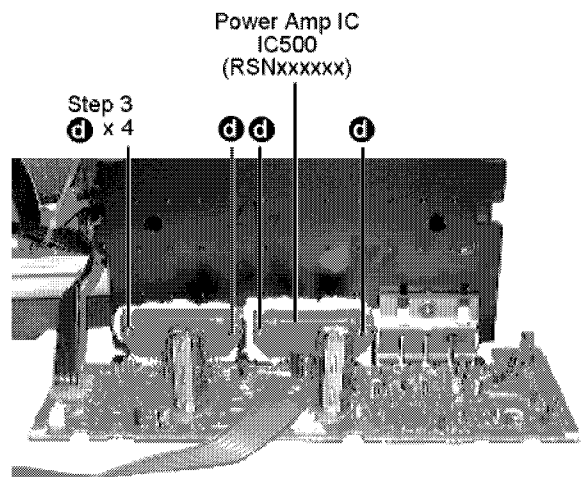
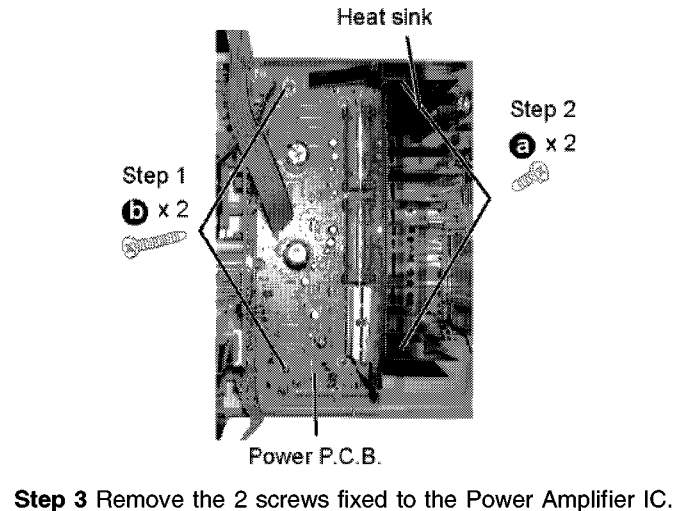


8.2.2. Replacement of the Power Amplifier IC

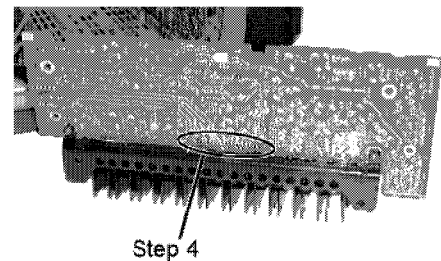
Step 1 Follow the procedures in 'Checking Procedure for each major P.C.B.' (**Step 1 - Step 4**).



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



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

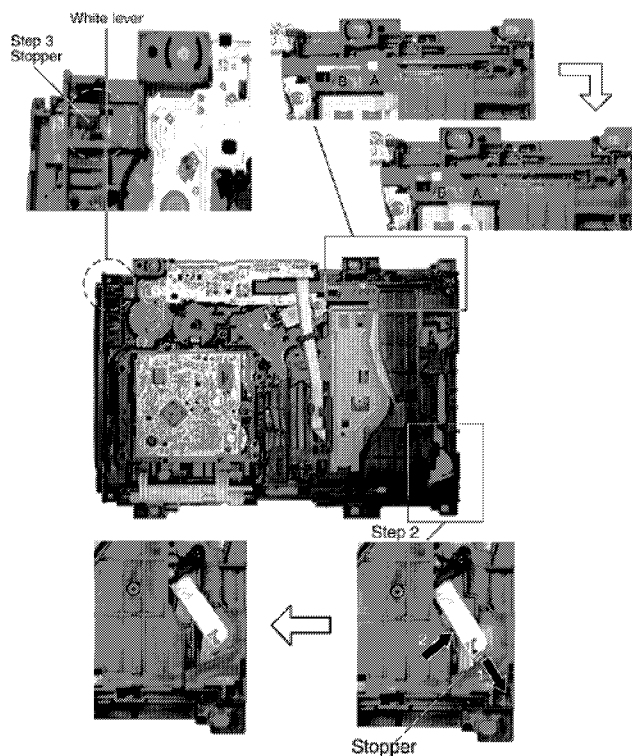


8.3. Disassembly and assembly of the Traverse Unit

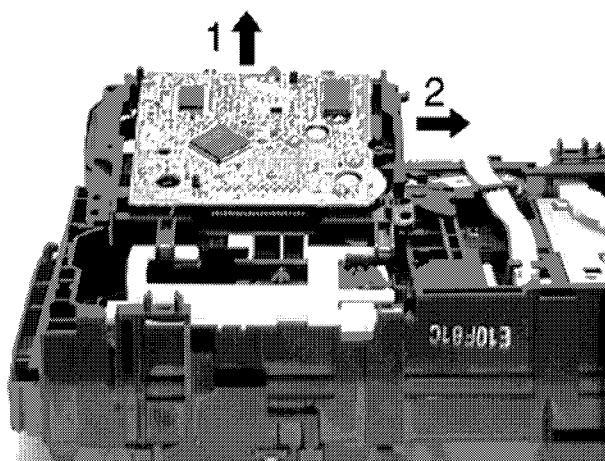
Step 1 Push the lever from position A to B.

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.



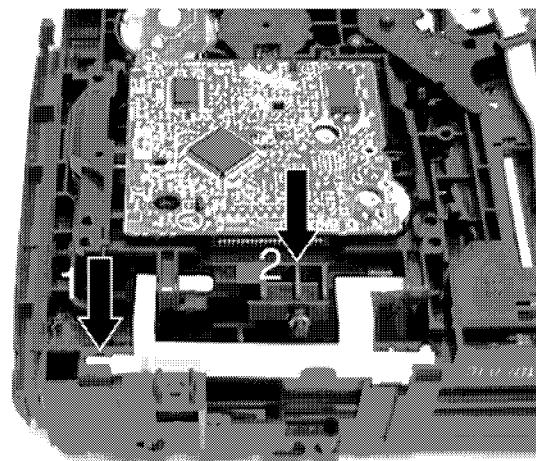
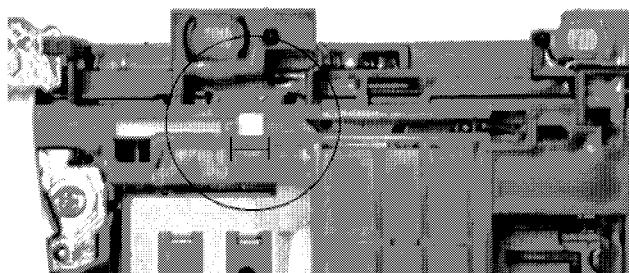
Step 4 Lift up the traverse unit and slide out the unit as shown.



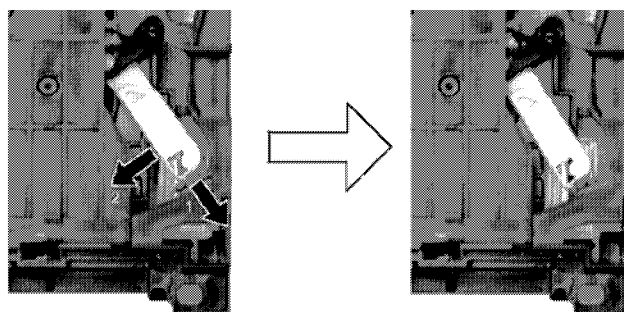
• Replacement of Traverse Unit

Step 1 Place the traverse unit as shown.

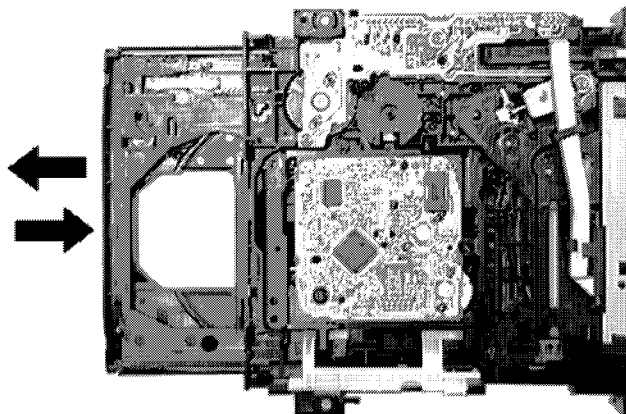
Step 2 Press in the lever shaft in the direction of arrow 1 as shown and push the traverse unit into the position in the direction of arrow 2.



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



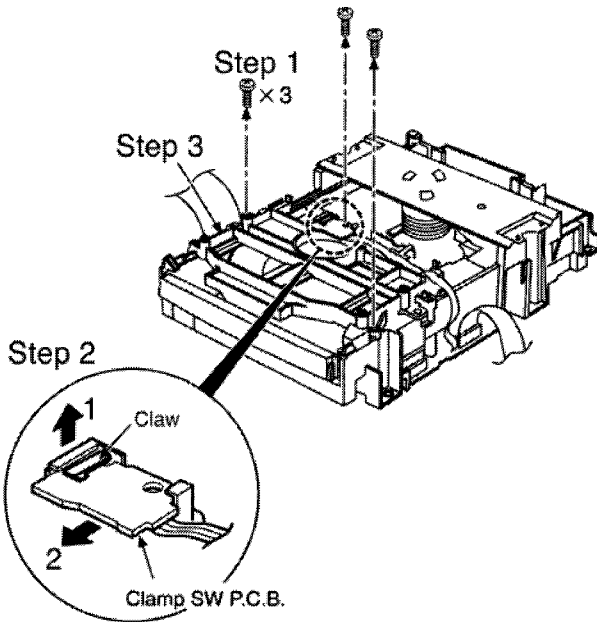
Step 4 Pull out the tray half way and push it back fully.



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

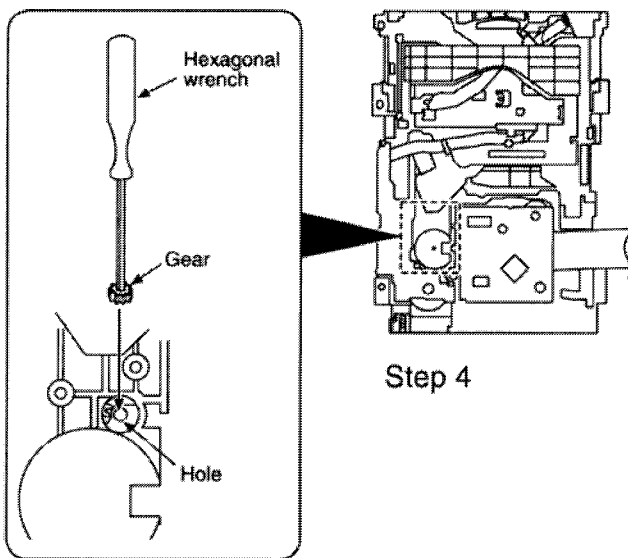
8.4. Disassembly and assembly of the Disc Tray

Step 1 Remove 3 screws.

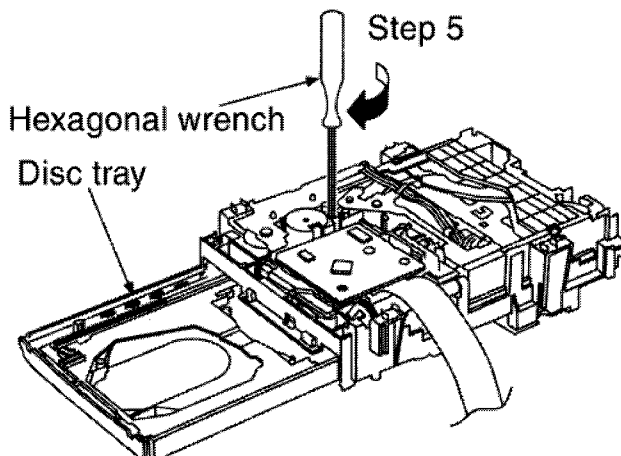


Step 2 With lifting the claw in the direction of arrow 1, push the CD Detect P.C.B. in the direction of arrow 2.

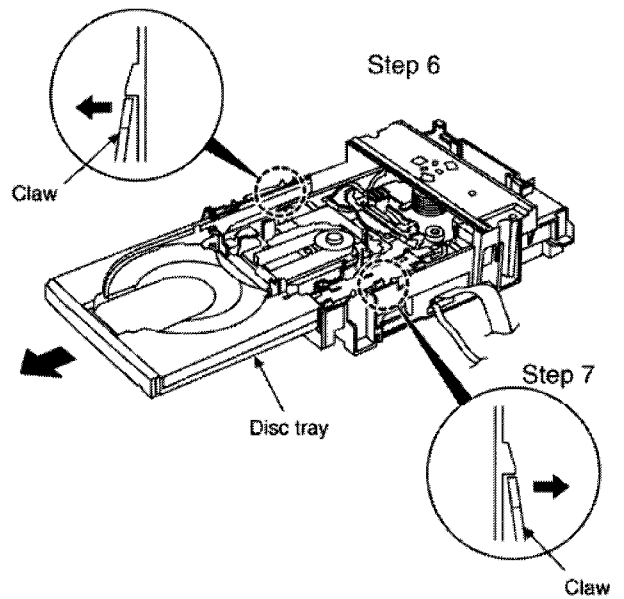
Step 3 Remove the mechanism cover.



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

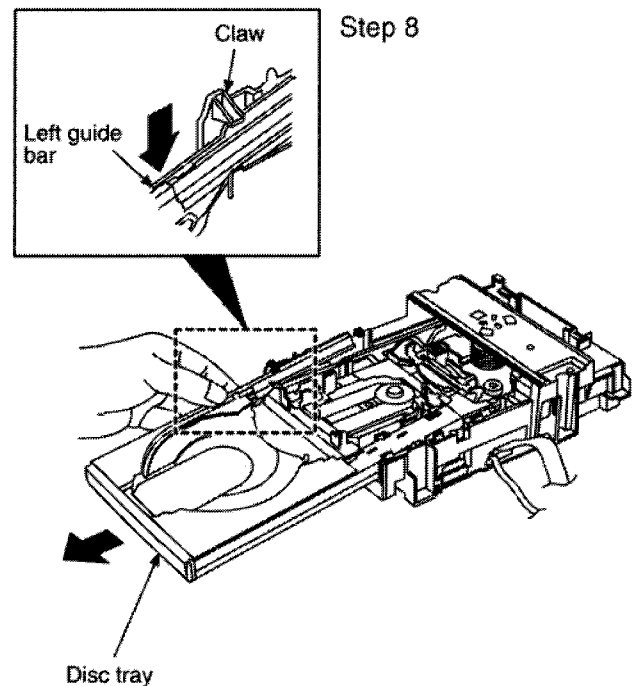


Step 5 Rotate the hexagonal wrench in the direction of arrow (clockwise), and then open the disc tray fully.



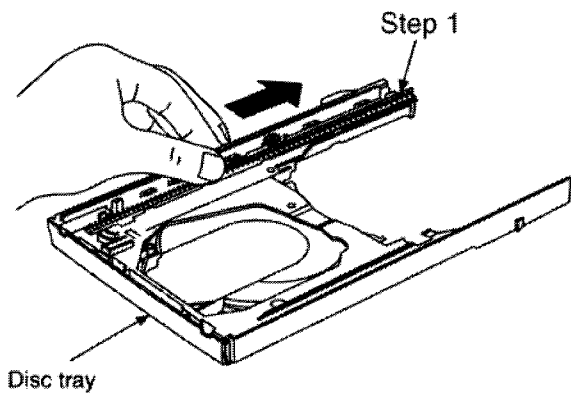
Step 6 Upset the CD changer unit again.

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

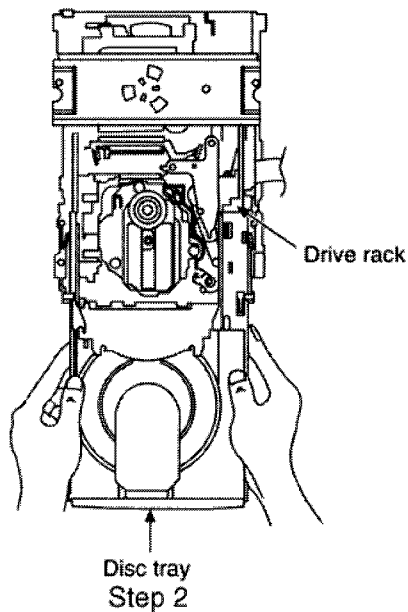


Step 8 With forcing the left guide bar manually because the left guide bar interferes with claw, draw the disc tray.

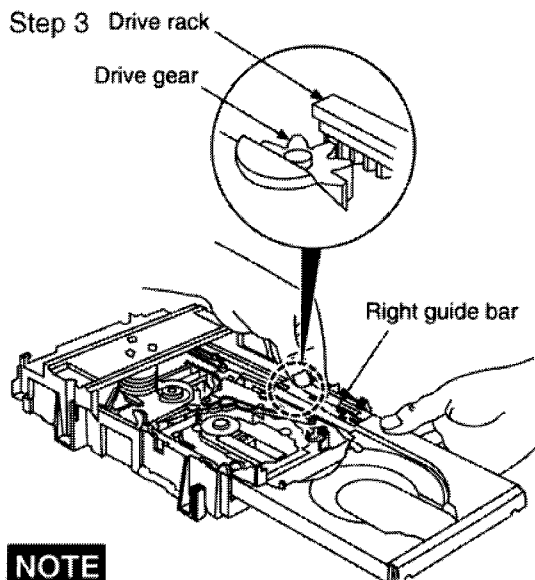
• Installation of the disc tray after replacement



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



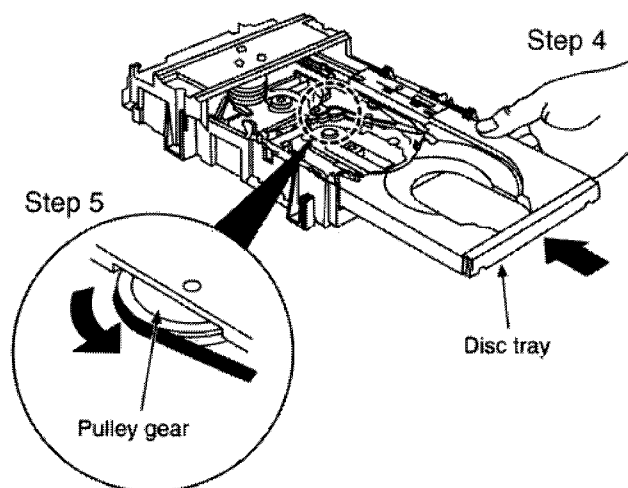
Step 2 Holding the drive rack, not to move, install the disc tray.



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.

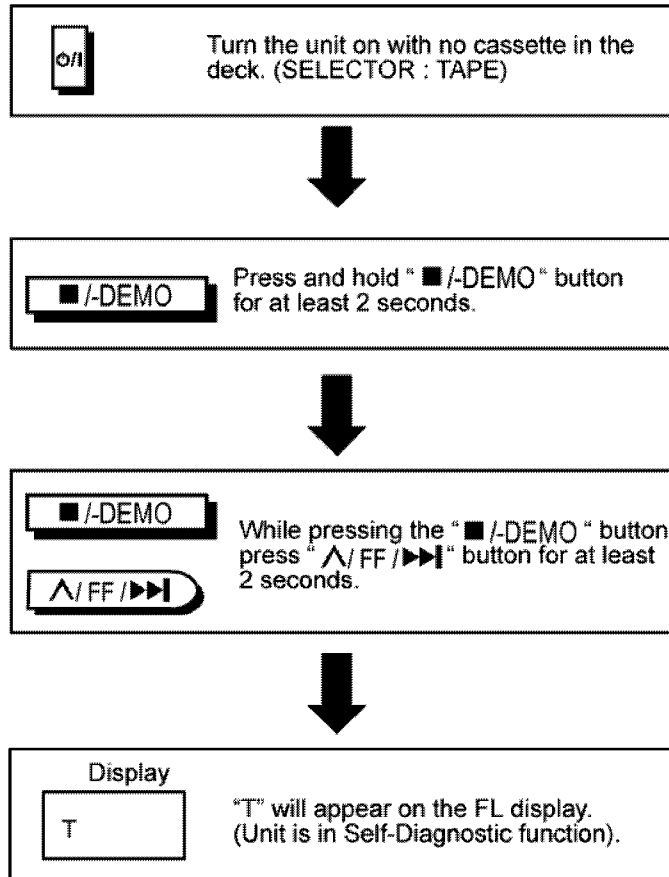
9 Self-Diagnostic Function

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)

- Press "TAPE, DECK 1/2" to select Deck 2.
- Load a cassette tape with the erasure prevention tab, remove from left side only and close the cassette holder.
- Press "FAST FORWARD" (Tape will be stop after 2 seconds)
- Load a cassette tape with the erasure prevention tab, remove from right side only and close the cassette holder.
- Press "REVERSE" (Tape will be stop after 2 seconds)
- Load a pre-recorded tape with both side record tabs intact and close the cassette holder.
- Press "PLAY" (After TPS function, tape will stop automatically)
- Press "REC" (Tape will not move)
- Press "STOP" to indicate Error code.
 - If several problem exist, error code will change each time when "■ /-Demo" is pressed.
(e.g. H01 → H03 → F01etc.)
- Press "TAPE, DECK 1/2" to select Deck 1.
- 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 "■/TUNE MODE" to indicate Error Code.

• If several problem exist, error code will change each time when "■/TUNE MODE" is pressed. (e.g. F15 → F26 → F16etc).

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 switch (S952, S972).
4	Reel Pulse detection error	F01	The tape advances slightly and then stops. Faulty reel pulse, faulty hole detect IC (IC951, IC971).

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)

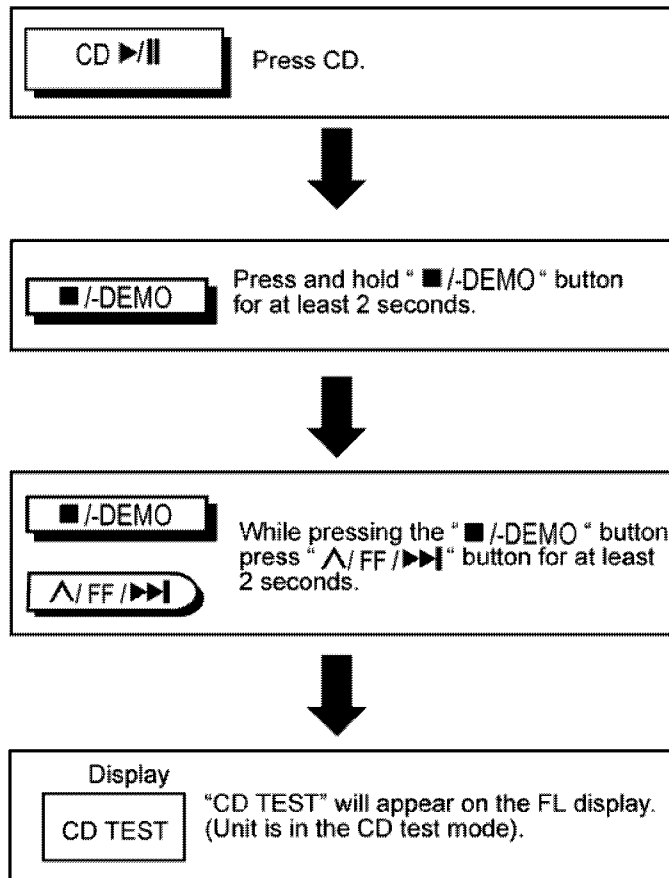
10.3. Power Supply related error detection

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

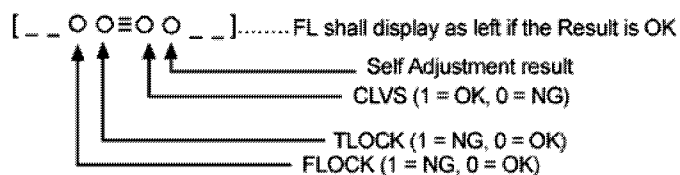
This CD test mode is provided to check CD unit without connecting to changer loading mechanism. This mode shall operate CD PLAY with CD unit being connected only and CD Automatic Alignment result is shown on FL display.

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

- Reverse-mode selector switch: 
- Tape edit: NORMAL
- Make sure head, capstan and press roller are clean.
- Judgeable room temperature $20 \pm 5^{\circ}\text{C}$ ($68 \pm 9^{\circ}\text{F}$)

• Measuring instrument

- EVM (Electronic Voltmeter)
- Digital frequency counter

• Test Tape

- Head azimuth adjustment (8 kHz, -20 dB); QZZCFM
- Tape speed gain adjustment (3 kHz, -10 dB); QZZCWAT

12.1.1. Head Azimuth Adjustment (Deck 1/2)

Caution:

- Please replace both azimuth adjustment screw (RHE5152ZB) and springs (RM0331) simultaneously when readjusting the head azimuth. (shown in Fig. 2) Even if you wish to readjust the head azimuth without replacing the screws and springs, a fine adjustment to the azimuth screw and spring.
- Please remove the screw-locking bond left on the head base when replacing the azimuth screw.
- If you wish to readjust the head azimuth, be sure to adjust with adhering the cassette tape closely to the mechanism by pushing the center of cassette tape with your finger. (shown in Fig. 3)

1. Playback the azimuth adjustment portion (8 kHz, -20dB) of the test tape (QZZCFM) in the forward play mode. Vary the azimuth adjustment screw until the output of the R-CH (PB OUT-R) are maximized.
2. Perform the same adjustment in the reverse play mode.
3. After the adjustment, apply screwlock to the azimuth adjusting screw.

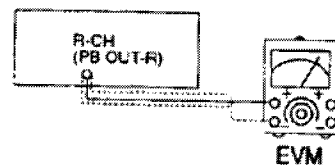


Fig. 1

- (RHE5152ZB)
- (RMB0331)

Fig. 2

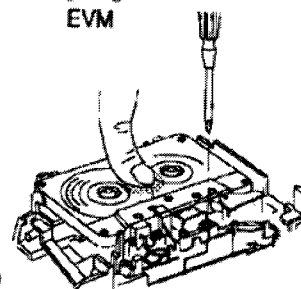


Fig. 3

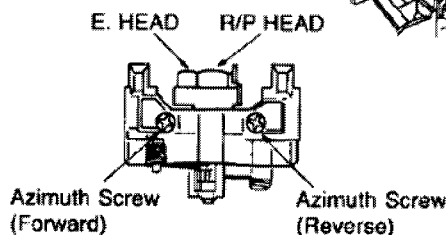


Fig. 4

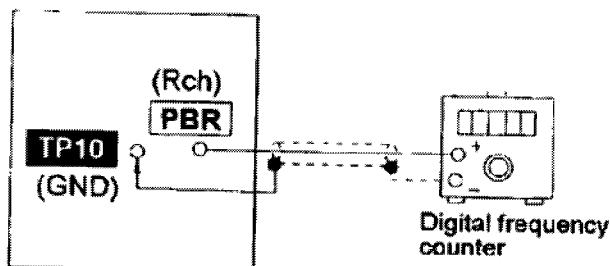
12.1.2. Tape Speed Adjustment (Deck 1/2)

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

Adjustment target: 2940 ~ 3060 Hz (NORMAL speed)

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

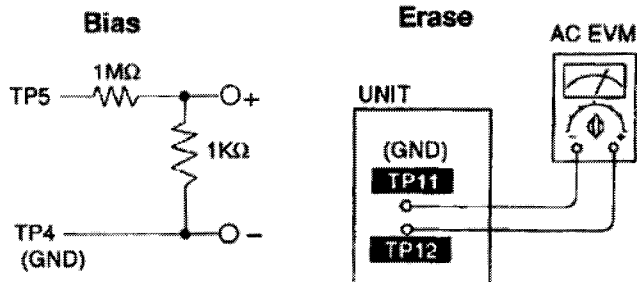
UNIT



12.1.3. Bias and Erase Voltage Check

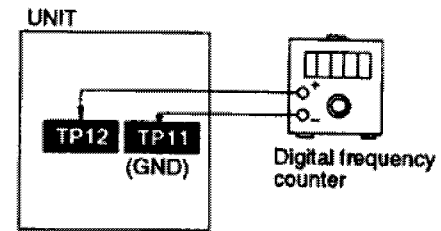
1. Set the unit "AUX" position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and the unit to "REC" mode (use "● REC/STOP" key).
3. Measure and make sure that the output is within the standard value.

Bias voltage for Deck 2	$14 \pm 4\text{mV}$ (Normal)
Erase voltage for Deck 2	80mV (Normal)



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

Standard Value: $97 \pm 8 \text{ kHz}$



12.1.4. Bias Frequency Adjustment (Deck 1/2)

1. Set the unit to "AUX" position.

12.2. Tuner Section

12.2.1. AM-IF Alignment

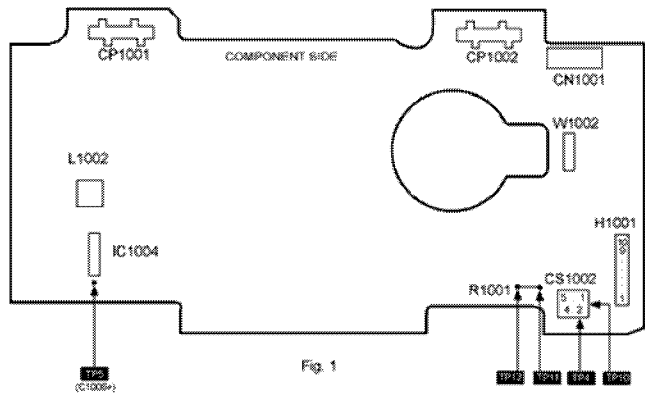
SIGNAL GENERATOR OR SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig.3)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	450 kHz 30% Mod. at 400Hz.	Point of non-interference (on/about 600 kHz)	Headphones Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Z102 (AM IFT)	Adjust for maximum output.

12.2.2. AM-RF Alignment

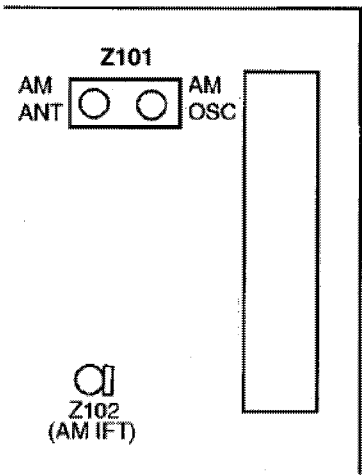
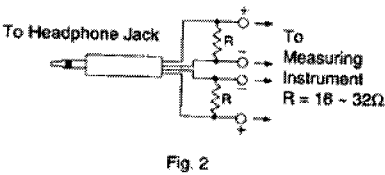
SIGNAL GENERATOR OR SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig.3)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	522 kHz	Tuning capacitor fully closed	Headphones Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Z101, (AM OSC Coil)	Adjust for maximum output.
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	603 kHz	Tuning to signal	Headphones Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Z101, (AM ANT Coil)	Adjust for maximum output.

12.3. Alignment Points

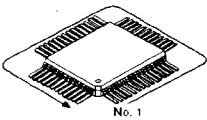
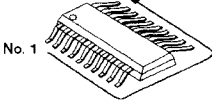
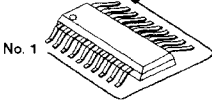
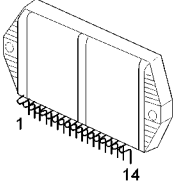
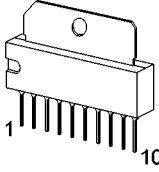
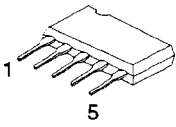
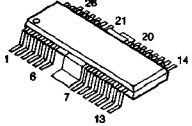
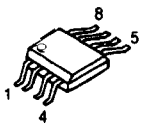
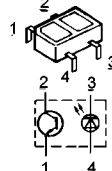
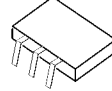
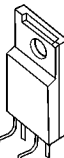
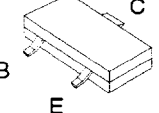
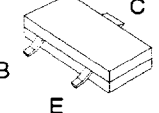
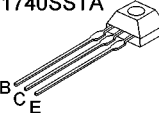
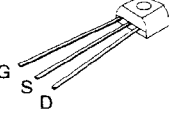
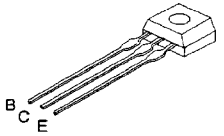
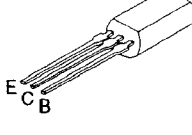
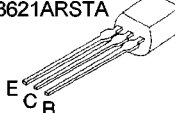
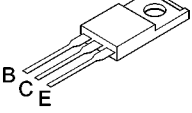
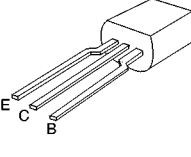
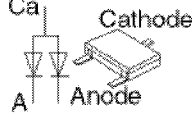
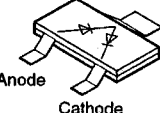
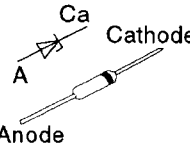
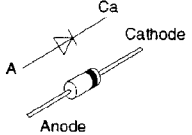
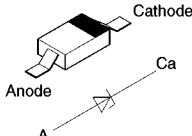
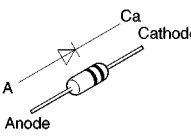
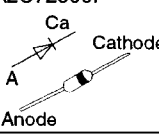
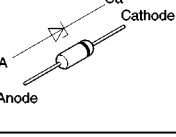
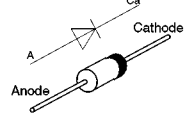
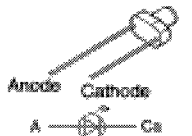
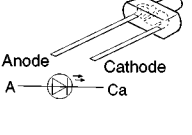
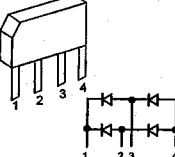
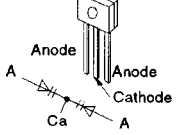
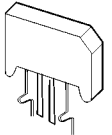
Cassette Deck section



Tuner section



13 Illustration of IC's, Transistors and Diodes

C2BBGF000366 (64P) MN89103M2 (128P) C2BBGF000362 (100P) MN662791AA (80P) 	AN7348S-E1 (24P) AN8885SBE1 (28P) BA3838FE2 (16P) C1BB00000716 (16P) C1BB00000731 (42P) C1BB00000574 (16P) C3CBL000031 (32P) C3ABMB000027 (26P) 	C3ABKG000089 (44P) KIA4558FEL LA1833NMNTLM (24P) LC72131MDTRM (20P) 	RSN35H2-P 	C0GAM0000005 	C1AA00000612 
AN8739SBTE2 	C0AABB000117 C0JBAZ000529 C0JBAZ000524 	CNB13030R2AU 	C0CBAAC00112 	UPC29M33HF 	SI8050JLF118 
B1ADCF000001 B1ABCF000011 KRA102STA KRC101STA KRC102STA KRC103STA KTC3875GRTA KTD1304TA 	2SC2712GRT5T 2SC3326BT5M 	KRA102MTA KRA110MTA KRC102MTA KRC103MTA 2SC1740SSTA 	2SK544F-AC 	B1GACFGG0004 KTC3199GRTA B1AAGC000007 2SC2786MTA 2SC2787FL1TA 	
KRC114STA 	2SC2058SPTA 	B1AAKD000009 KTA1267GRTA KTA12710YTA KTD1146YTA 2SB621ARSTA 	KTC2026 KTA1046 	2SD0592ARA 	B0ADCJ000020 
1SS380TE-17 UDZSTE1710B B0ACCK000005 B0BC3R700004 	B0ADCC000002 	B0BA5R6000016 B0BA9R600002 B0BA01400041 B0BA03100002 B0BA01500003 B0BA6R600008 	RL1N4003S-P 		
B0BC7R500001 B0BC5R000009 	MA2C700A0F 	B0AACK000004 MA2C16500E MA2J72800L MA2C72300F 	B0BA4R600003 B0BA5R000004 	B0EAKM000085 RL1N4003N02 	SLI325URCT31 SLR325YCT31 
LNJ301MPUJAD 	KBP152G4R5 	SVC211SPA-AL 	B0FBM000009 		

14 Terminal Function of IC's

14.1. IC701 (AN885SBE1) 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	DEFLVL	O	Ground
19	ENV	O	3T-ENV output
20	GCTL	I	Focus drive input
21	EQSQ	I	Ground
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 (MN662791AA) Servo processor/ Digital signal processor/ Digital filter/ D/A converter

Pin No.	Mark	I/O	Function
1	DRVDD	I	Power supply for DRAM interface (Pin 2 to 19 and 80)
2	D0	I/O	DRAM data I/O signal 0
3	D1	I/O	DRAM data I/O signal 1
4	NWE	O	DRAM write enable signal
5	NRAS	O	DRAM RAS control signal
6	D2	I/O	DRAM data I/O signal 2
7	D3	I/O	DRAM data I/O signal 3
8	NCAS0	O	DRAM CAS control signal 0
9	A10	O	DRAM CAS control signal 10
10	A8	O	DRAM address signal 8
11	A7	O	DRAM address signal 7
12	A6	O	DRAM address signal 6
13	A5	O	DRAM address signal 5
14	A4	O	DRAM address signal 4
15	A9	O	DRAM address signal 9
16	A0	O	DRAM address signal 0
17	A1	O	DRAM address signal 1
18	A2	O	DRAM address signal 2
19	A3	O	DRAM address signal 3
20	DVSS2	I	Ground for digital circuits
21	DVDD2	I	Power supply for digital circuits
22	SPOUT	O	Spindle motor drive signal output (absolute value output)

Pin No.	Mark	I/O	Function
23	TRVP	O	Traverse drive output (positive polarity output)
24	TRVM	O	Traverse drive output (negative polarity output)
25	TRP	O	Tracking drive output (positive polarity output)
26	TRM	O	Tracking drive output (negative polarity output)
27	FOP	O	Focus drive output (positive polarity output)
28	FOM	O	Focus drive output (negative polarity output)
29	IOVDD1	I	Power supply for I/O
30	TBAL	O	Tracking balance adjustment output
31	FBAL	O	Focus balance adjustment output
32	FE	I	Focus error signal input (analog input)
33	TE	I	Tracking error signal input (analog input)
34	RFENV	I	RF envelope signal input (analog input)
35	OFT	I	Off-track signal input High : Off track
36	NRFDET	I	RF detection signal input Low : detection)
37	BDO	I	Dropout signal input High: Dropout
38	LDON	O	Laser ON signal output High: ON
39	ARF	I	RF signal input
40	IREF	I	Reference current input
41	ADPVCC	I	Voltage input for supply voltage monitor (analog input)
42	DSLIF	O	DSL loop filter
43	RFSW	I	DSL loop filter
44	PLLF	O	PLL loop filter
45	PLLF0	O	PLL loop filter
46	AVDD2	I	Power supply for analog circuits (for DSL, PLL and A/D)
47	AVSS2	I	Ground for analog circuits (for DSL, PLL and A/D)
48	OUTL	O	L-ch audio output
49	AVSS1	I	Ground for analog circuits (for audio output stage)
50	OUTR	O	R-ch audio output
51	AVDD1	I	Power supply for analog circuits (for audio output stage)
52	DVSS3	I	Ground for digital circuits
53	DVDD3	I	Power supply for digital circuit
54	TMOD2	I	Test input pin Low: Normal
55	FLAG	O	Flag signal output
56	EXT2	I/O	Expansion I/O port 2
57	EXT0	I/O	Expansion I/O port 0
58	EXT1	I/O	Expansion I/O port 1
59	IOVDD2	I	Power supply for I/O
60	TX	O	Digital audio interface output signal
61	MCLK	I	Microcontroller command clock signal input (Latches data at the rising edge)
62	MDATA	I	Microcontroller command data signal input
63	MLD	I	Microcontroller command load signal input Low: Load

Pin No.	Mark	I/O	Function
64	BLCK	O	Subcode block clock signal (f=75 Hz in normal-speed playback mode)
65	PWMSEL	I	PWM output mode selection input Low: Direct High: 3-state
66	SMCK	O	4.2336 MHz/ 8.4672 MHz clock signal output
67	SBCK	I	Clock input for subcode serial output
68	STAT	O	Status signal output
69	NRST	I	Reset input Low: Reset
70	SPPOL	O	Spindle motor drive signal output (polarity output)
71	PMCK	O	88.2-kHz clock signal output
72	DQSY	O	Pack signal output for CD-TEXT data
73	TXTD	O	CD-TEXT data signal output
74	TXTCK	O	External clock signal input for CD-TEXT register
75	NTEST	I	Test input pin High: Normal
76	OUT X2	O	Crystal oscillator circuit output pin (f=16.9355 MHz, 33.8688 MHz)
77	IN X1	I	Crystal oscillator circuit input pin (f=16.9344 MHz, 33.8688 MHz)
78	DVSS1	I	Ground for digital circuits
79	DVDD1	I	Power supply for digital circuits
80	MON	O	Monitor for evaluation

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

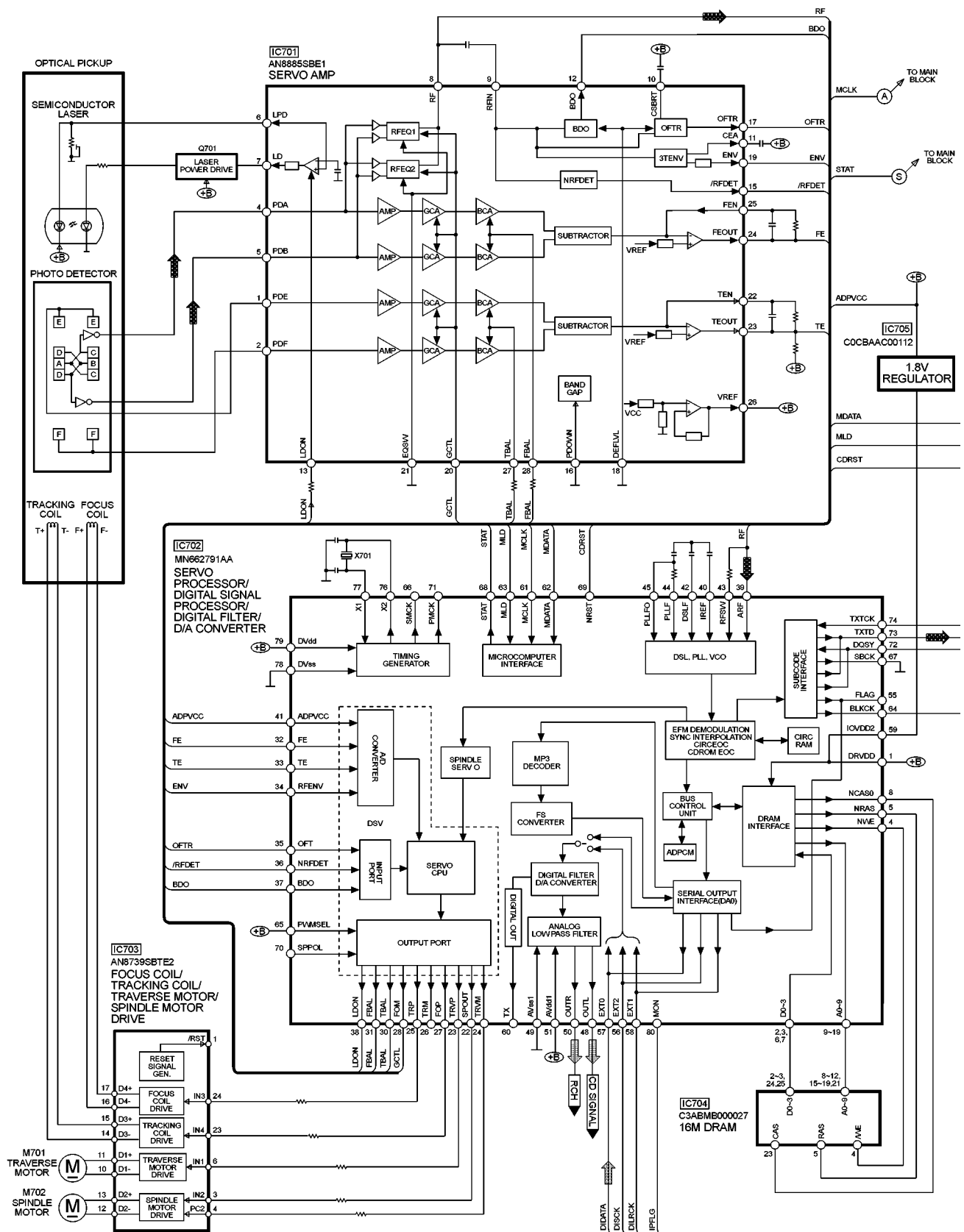
Pin No.	Mark	I/O	Function
25	IN4	I	Motor driver (4) input
26	IN3	I	Motor driver (3) input
27	RSTIN	I	Reset terminal
28	NC	-	N.C.

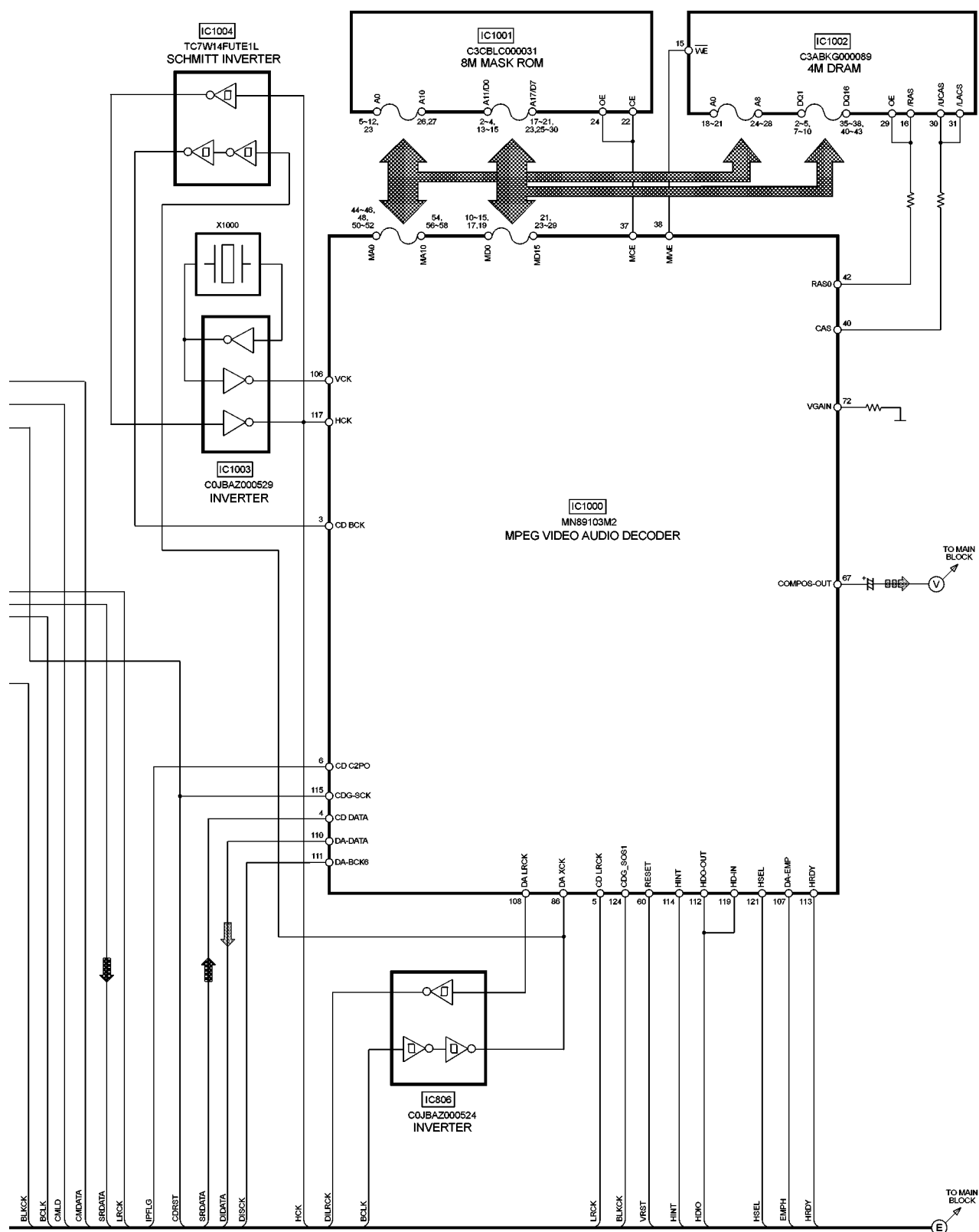
14.4. IC600 (C2BBGF000362) System Microprocessor

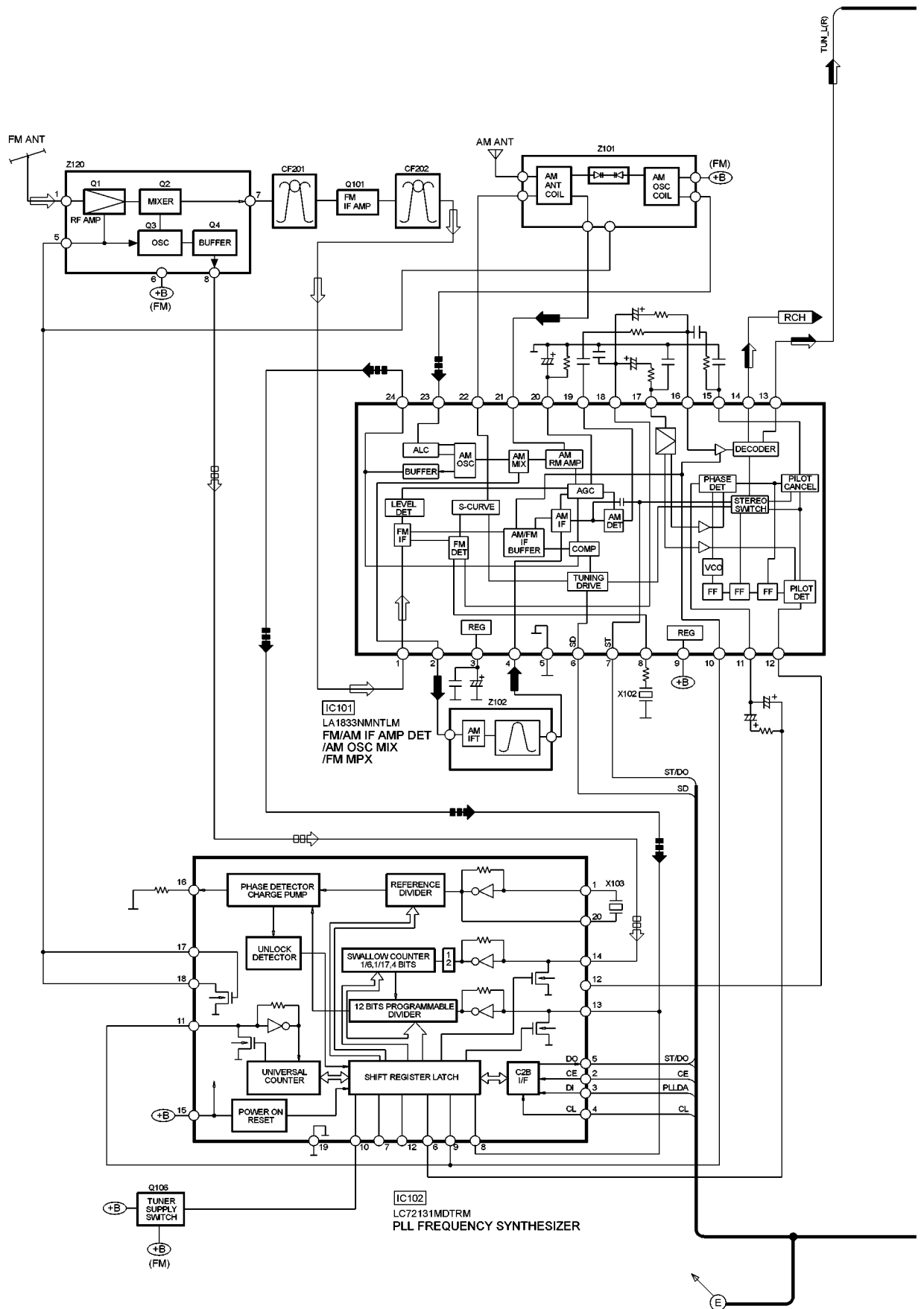
Pin No.	Mark	I/O	Function
1	DECK2	I	(REC1_F/MODE2/REC1_R/H ALF2)
2	KEY3	I	Key 3 input
3	KEY2	I	Key 2 input
4	KEY1	I	Key 1 input
5	SER5	O	EE_CLK/EX1_CLK
6	SER4	O	MK_CLK
7	SER3	O	EE_DAT/EX1_DAT
8	SER2	O	ASP_CLK
9	SER1	O	ASP_DAT/MK_DAT
10	LM_L	I	Level meter left
11	LM_R	I	Level meter right
12	ST/DO/SQCK	I	Tuner IF data/stereo input
13	SD	I	Tuner signal detect input
14	EE_CS	O	EEPROM Chip select
15	N.C.	O	No Connection
16	N.C.	O	No Connection
17	CNVSS	-	Flash mode terminal (connected to ground)
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	MBP1	O	Microcomputer beat proof output 1
26	MBP2	O	Microcomputer beat proof output 2
27	PLLCK	O	Tuner PLL clock output
28	PLLDA	O	Tuner PLL data output
29	RMT	I	Remote control input
30	MM_RST	O	Mechacon Reset Control
31	PLLCE	O	Tuner PLL chip enable
32	SYNC	I	AC failure detect input
33	DCDET	I	DC detect input
34	V_JOG_A	I	Volume Jog Detection A
35	V_JOG_B	I	Volume Jog Detection B
36	N.C.	O	No Connection
37	PCONT	O	Main Transformer Control Output
38	SU_L1	O	Surround level 1
39	SU_L2	O	Surround level2
40	SW_L1	O	Sub Woofer level 1
41	SW_L2	O	Sub Woofer level 2
42	VOC_B	O	Karaoke Control B
43	VOC_C	O	Karaoke Control C
44-80	SEG38 SEG2	- O	Segment drive output (Anode drive output)
81	REG8/SEG1	O	Segment drive output. Regional/Function setting use
82-88	REG7/GRID 7- REG1/GRID 1	O	Digit Drive Output (Grid Drive Output). For regional setting/function selection use
89	VEE	-	Power supply (-30V)

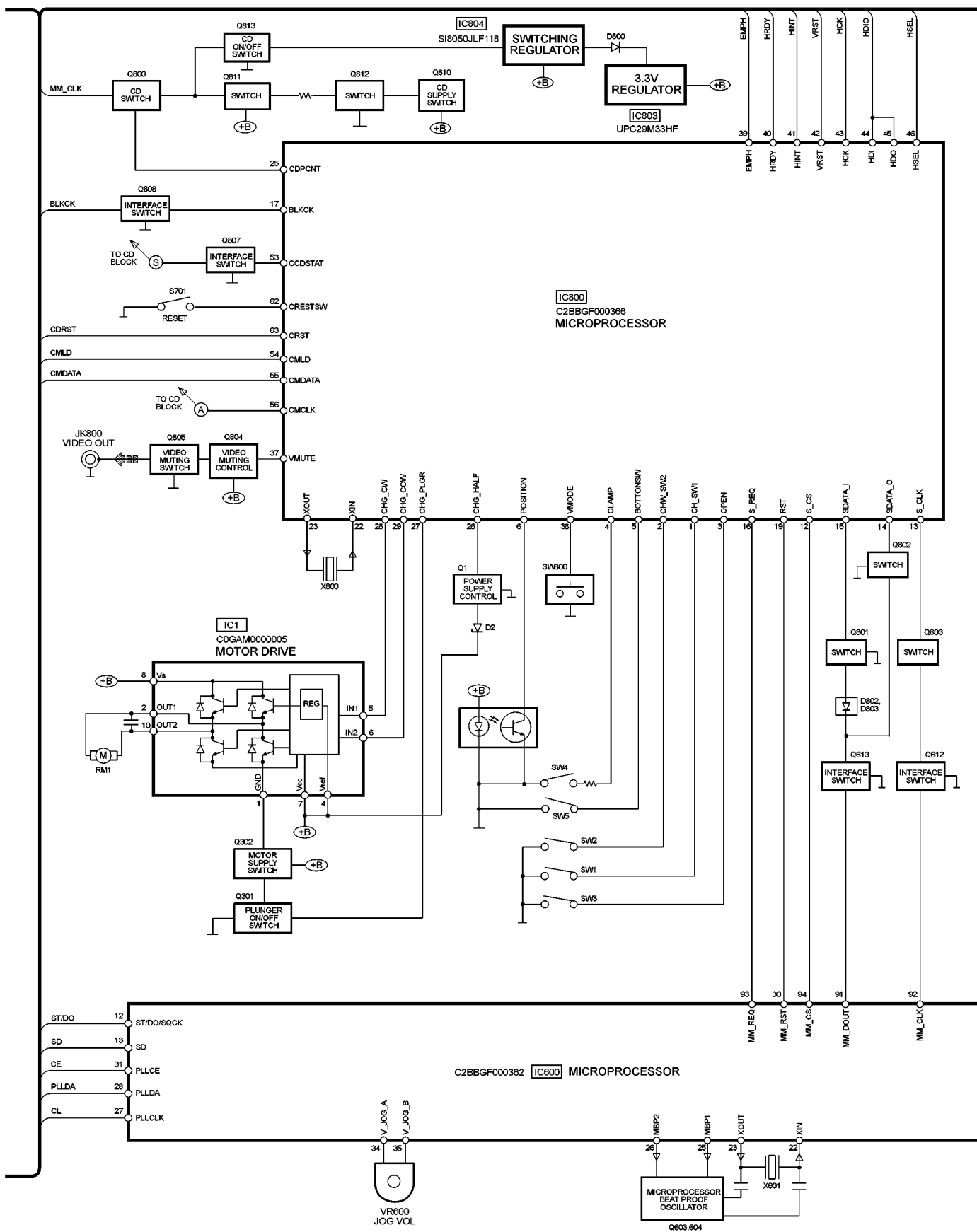
Pin No.	Mark	I/O	Function
90	MM_DIN	I	Serial data from mechacon (input)
91	MM_DOUT	O	Serail data to mechcon (output)
92	MM_CLK	I	Serial clock from mechacon
93	MM_REQ	O	Opecon request to mechacon
94	MM_CS	I	Mechacon chip select to opecon
95	REG_IN	I	Region and function setting input
96	ECHO_LVL	O	Echo level control(D/A Output)
97	AVSS	-	Analog ground (0V)
98	VREF	-	Reference for A-D
99	TPS	I	TPS/Chrome1/Chrome2
100	DECK1	I	(Half1/Mode/Photo1/Photo 2)

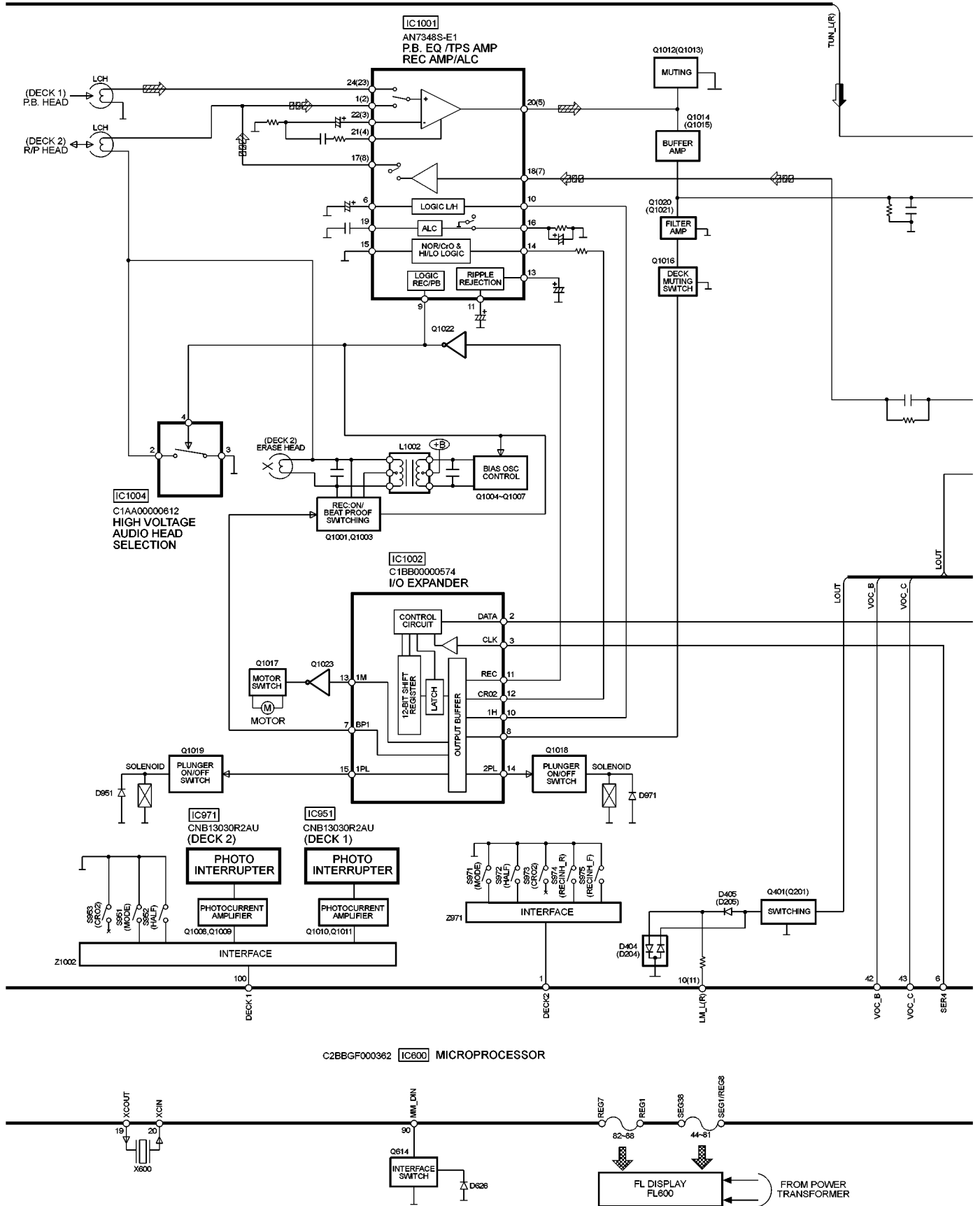
15 Block Diagram

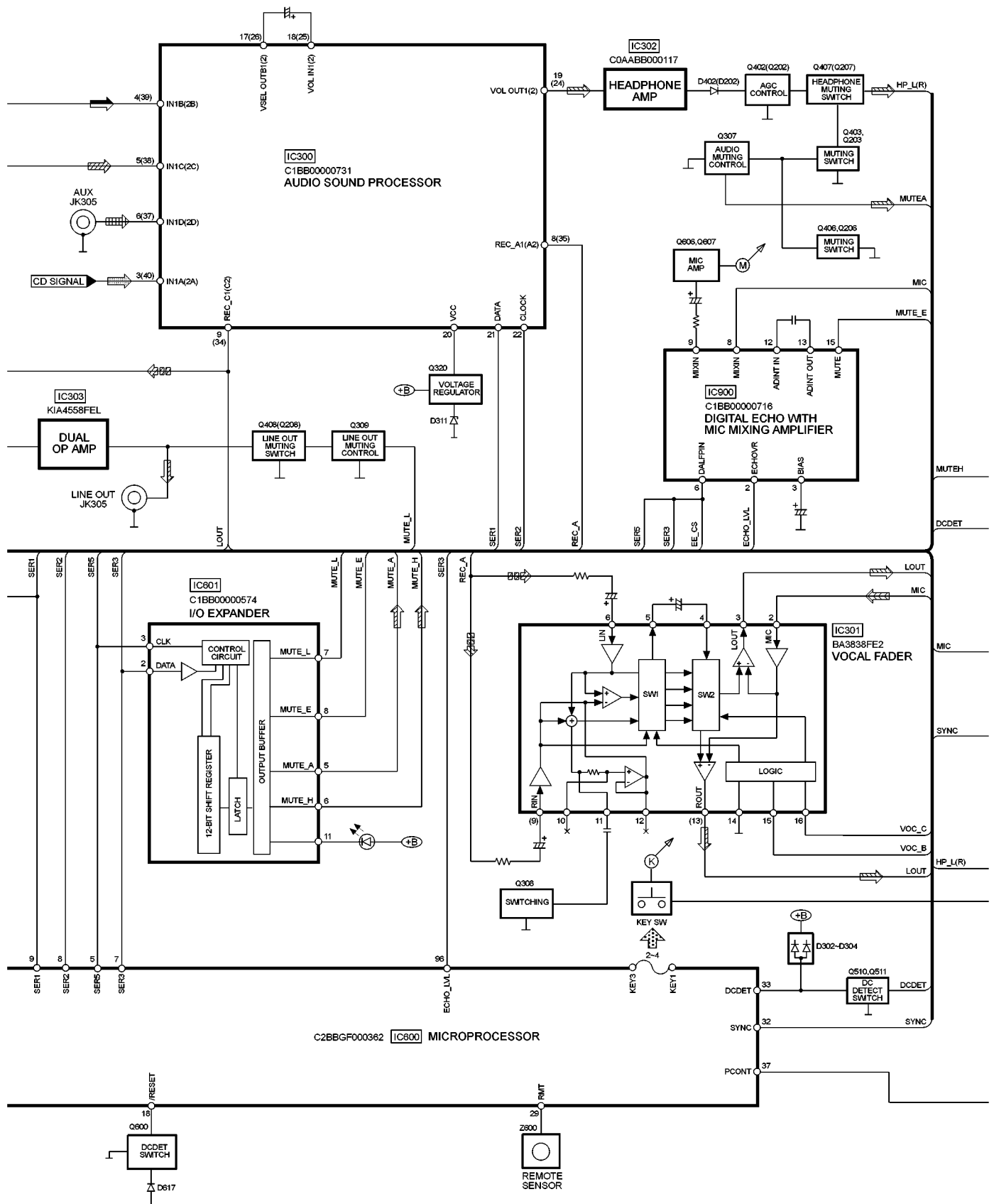




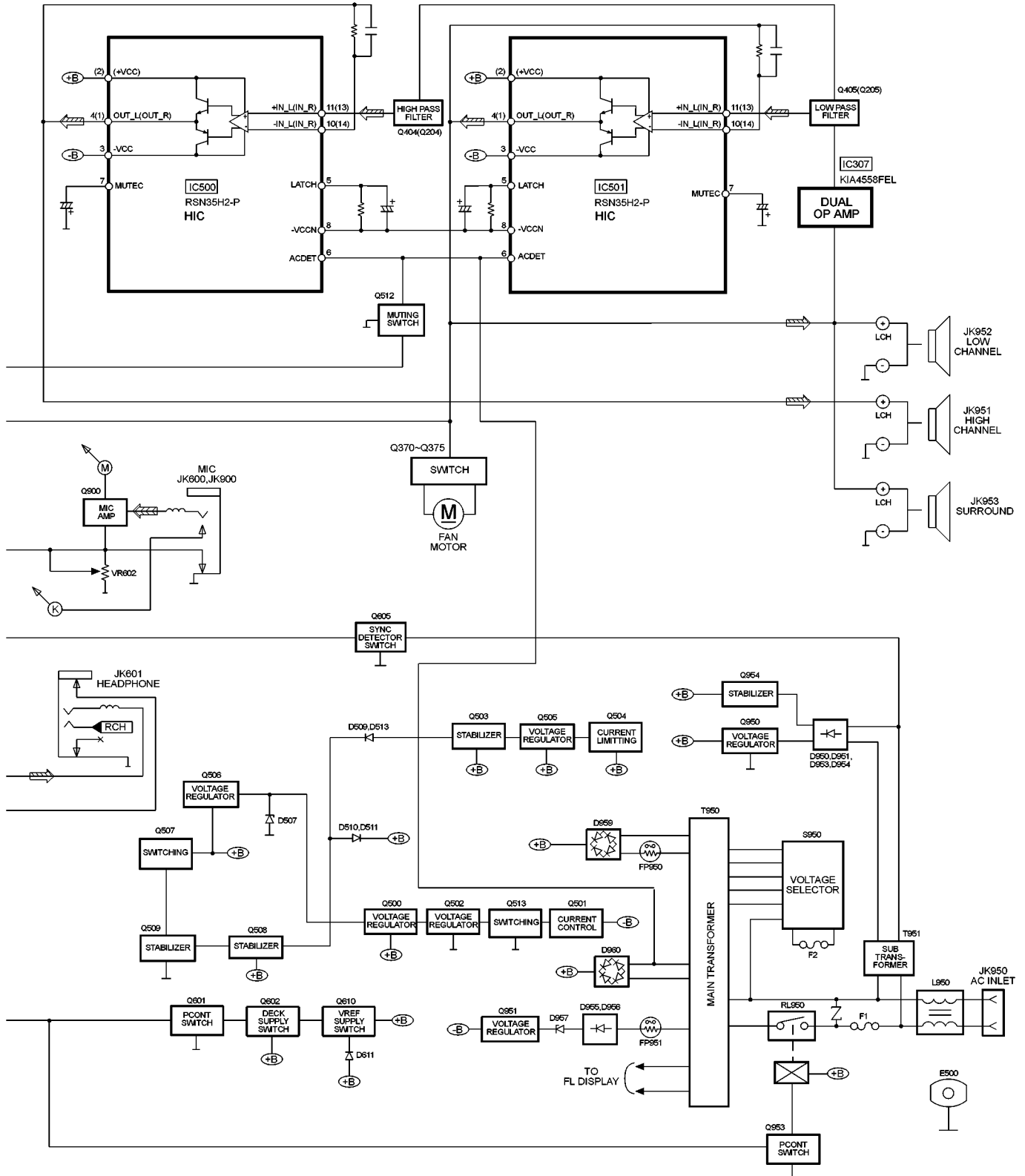
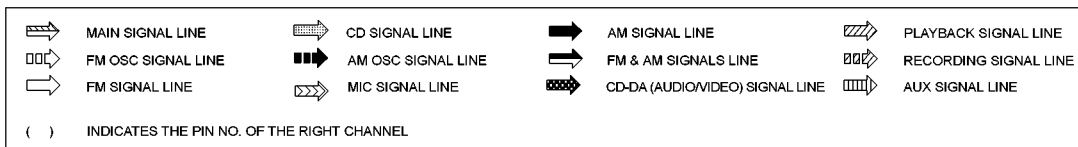








SIGNAL LINES



16 Schematic Diagram

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

Note:

S600	: Power switch
S601	: Display switch
S602	: CD Open / Close switch
S603	: Disc 1 switch
S604	: Disc 2 switch
S605	: Disc 3 switch
S606	: Disc 4 switch
S607	: Disc 5 switch
S610	: Deck 2 switch
S611	: Deck 1 switch
S701	: Reset switch
S910	: Tape switch
S911	: CD Play switch
S912	: AUX switch
S913	: Tuner switch
S914	: SSEQ switch
S920	: FF switch
S921	: Stop / Demo switch
S922	: REW switch
S923	: Deck 1/2 switch
S924	: Rec switch
S925	: Preset EQ switch
S950	: Voltage Selector switch
S951	: Mode switch
S952	: Half switch
S953	: CR02 switch

S971	: Mode switch
S972	: Half switch
S973	: CR02 switch
S974	: Recinh_r switch
S975	: 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 waveforms depending upon the internal impedance of the tester or the measuring unit.

(()) : CD < > : FM

• Importance safety notice :

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

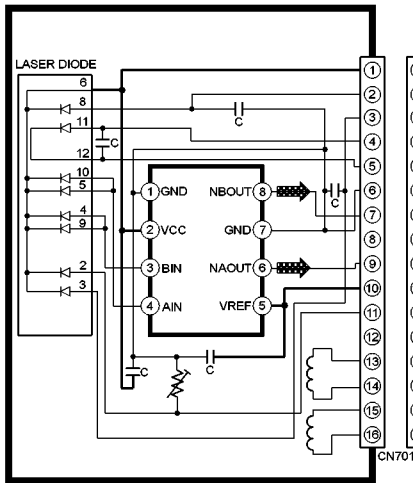
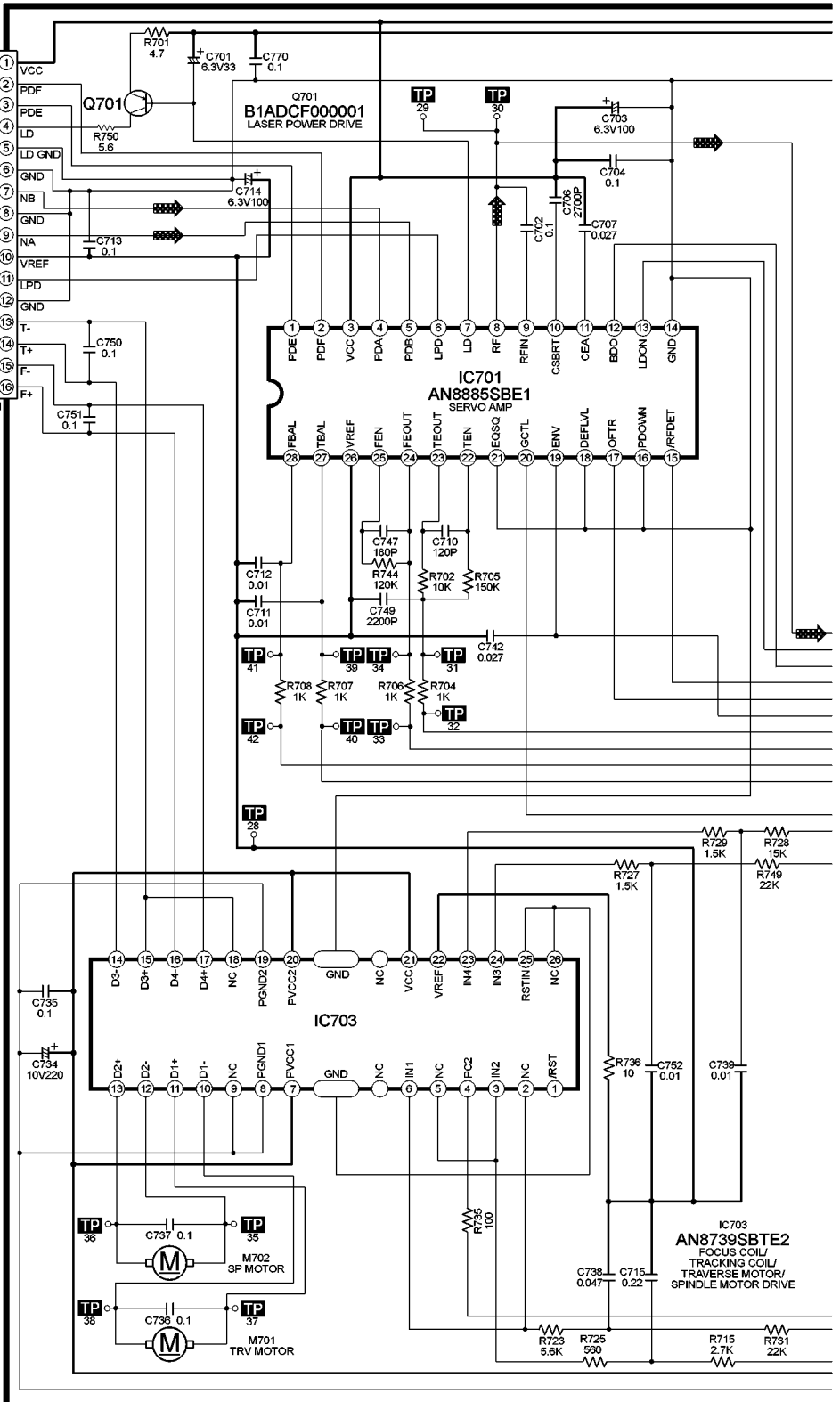
Caution !

IC, LSI and VLSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

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

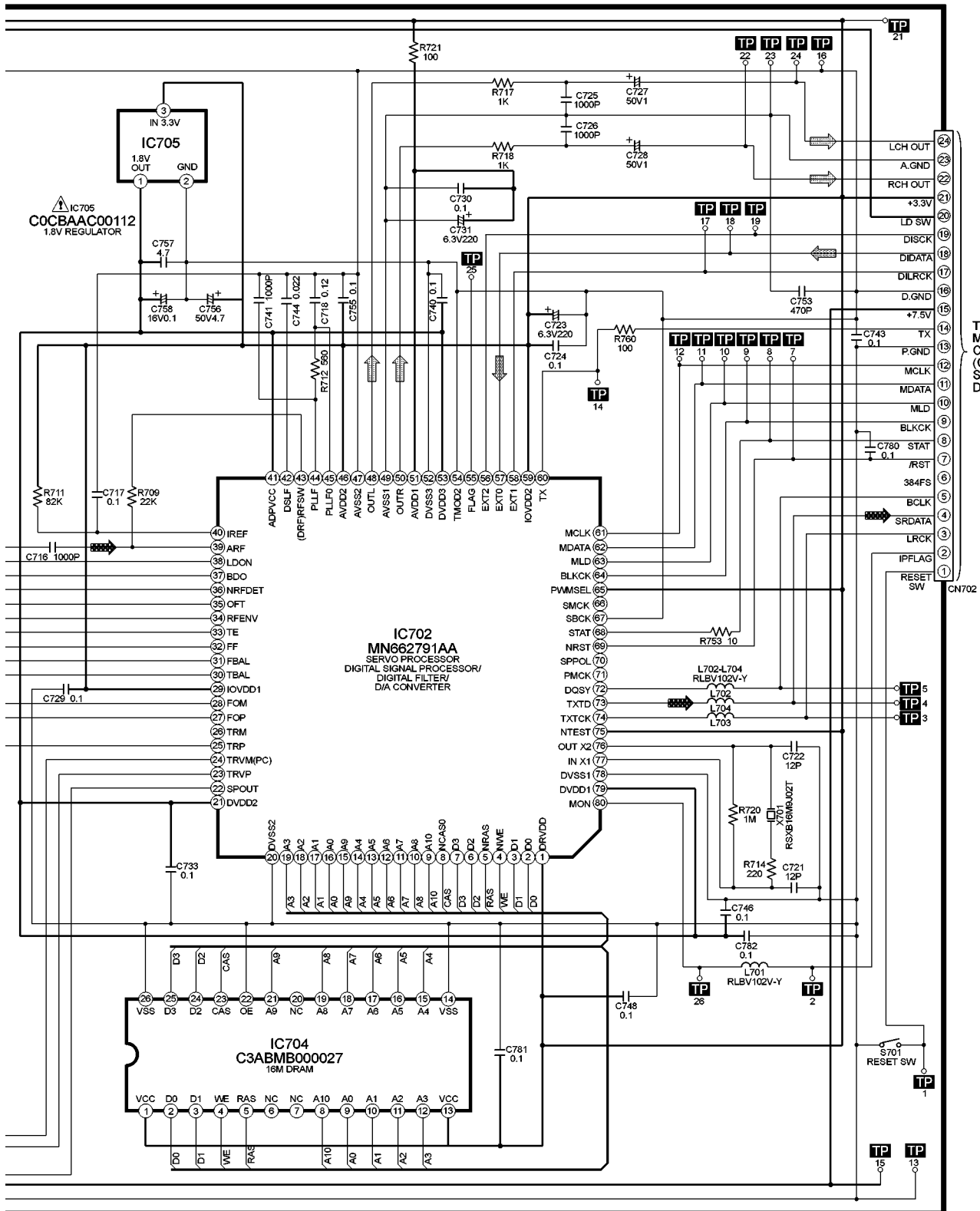
SCHEMATIC DIAGRAM -1

 OPTICAL PICKUP CIRCUIT

A CD SERVO CIRCUIT


SCHEMATIC DIAGRAM - 2

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

A

 CD SERVO CIRCUIT


SCHEMATIC DIAGRAM - 4

C

TUNER/MAIN CIRCUIT

— : +B SIGNAL LINE

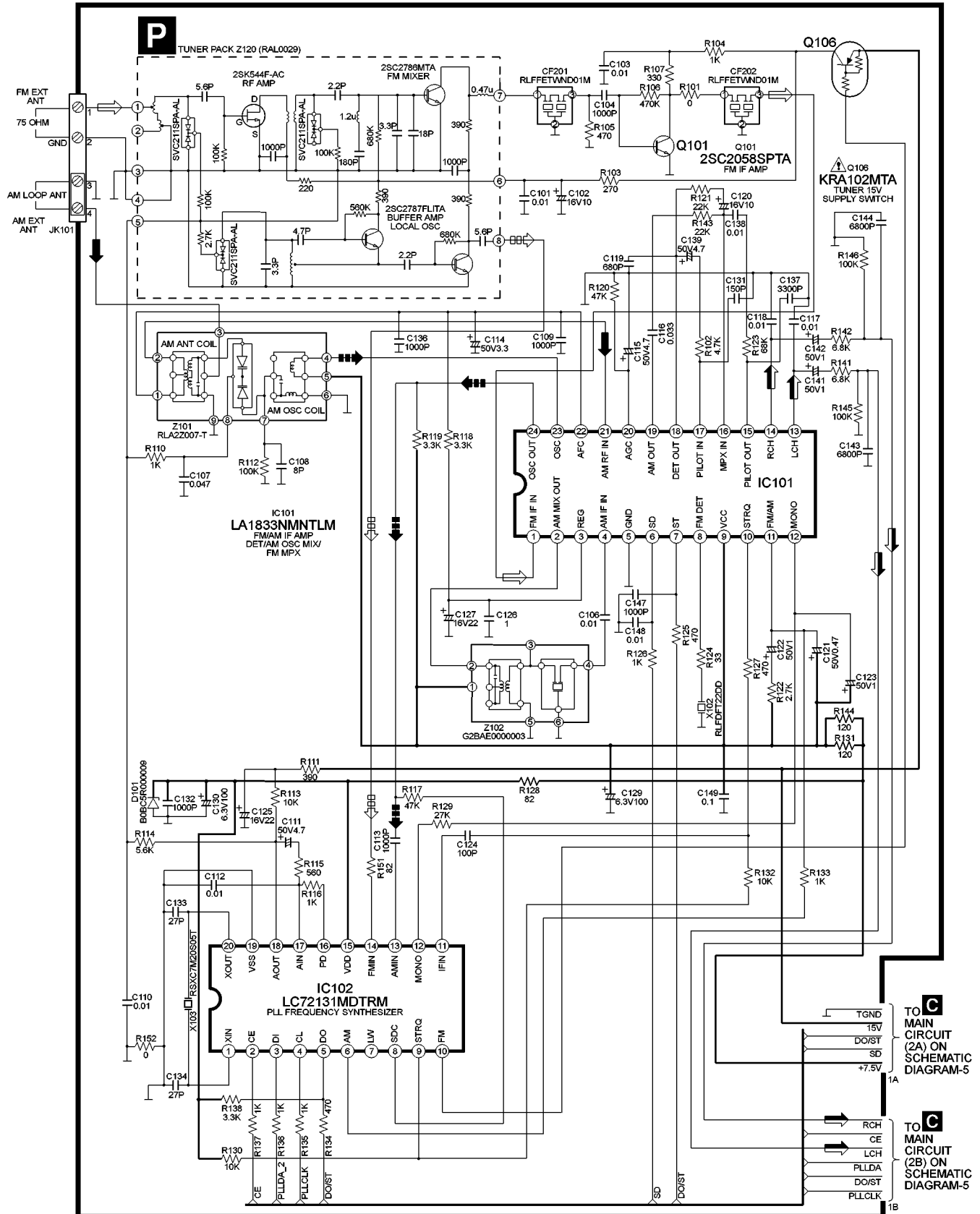
→ : FM SIGNAL LINE

→ : AM SIGNAL LINE

→ : FM/AM SIGNAL LINE

→ : FM OSC SIGNAL LINE

→ : AM OSC SIGNAL LINE



SCHEMATIC DIAGRAM - 6

C MAIN CIRCUIT

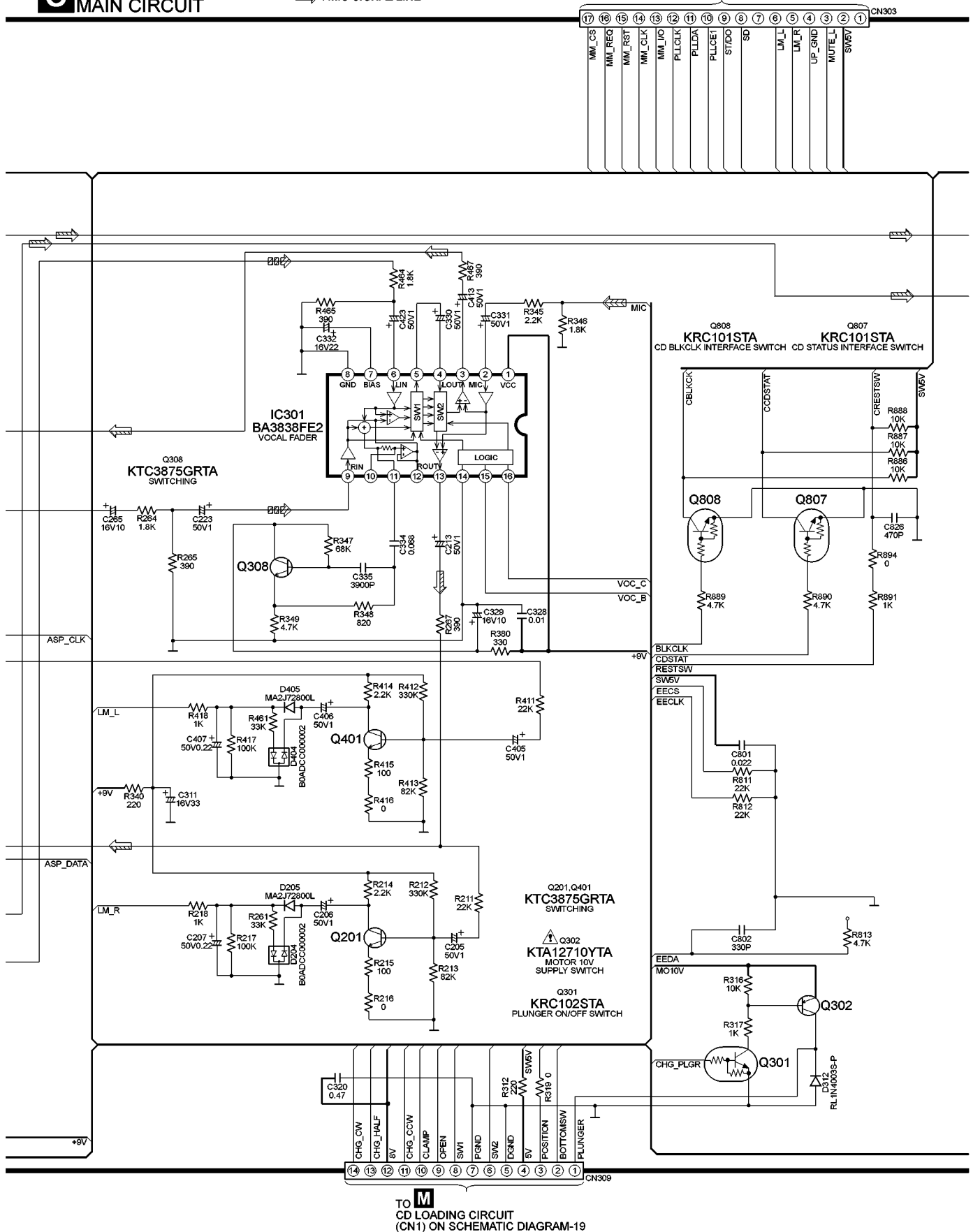
— : +B SIGNAL LINE

⇒ : MAIN SIGNAL LINE

⇒ : RECORD SIGNAL LINE

⇒ : MIC SIGNAL LINE

TO **D**
PANEL CIRCUIT (CP601) ON
SCHEMATIC DIAGRAM-14



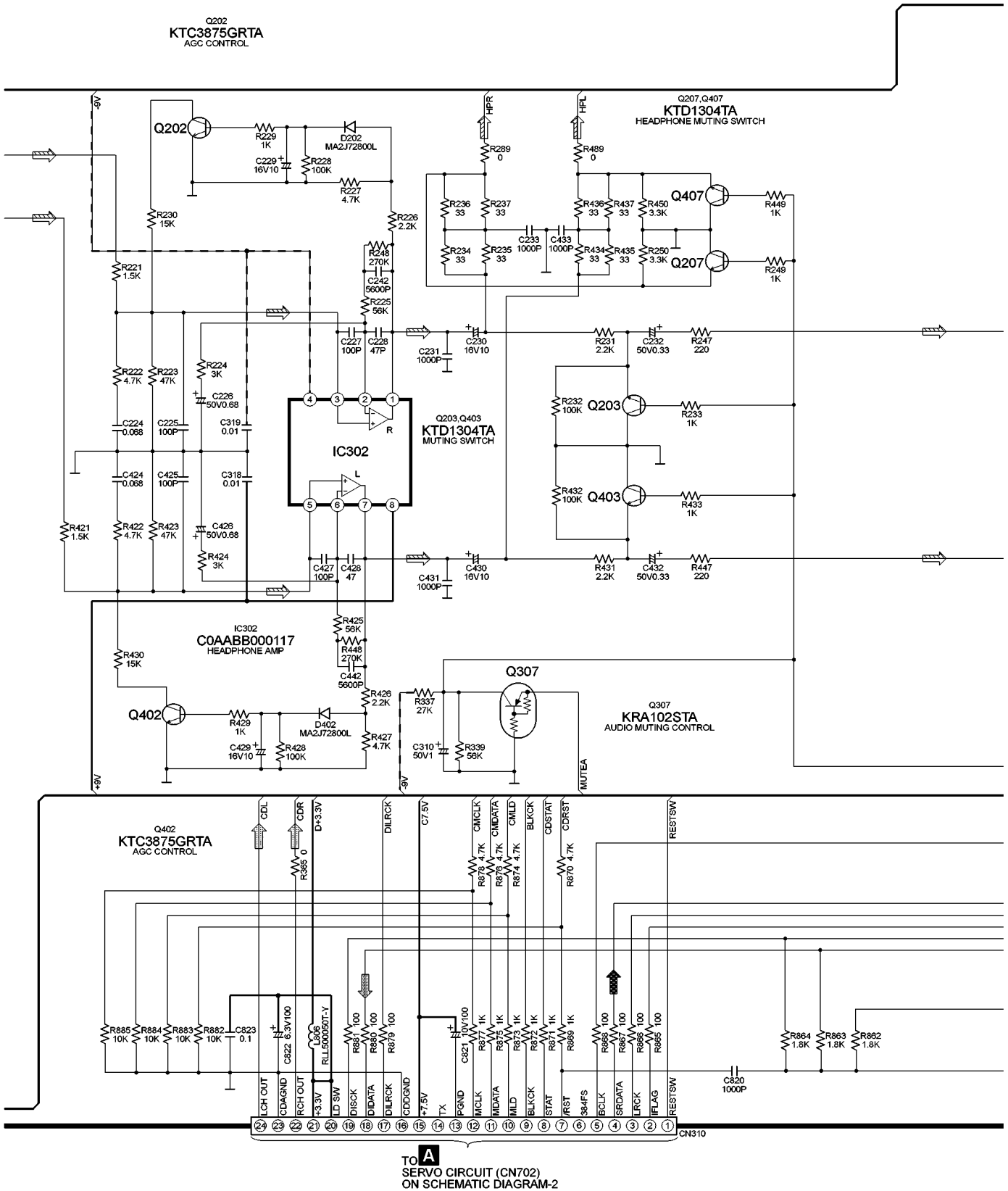
SCHEMATIC DIAGRAM - 7

C MAIN CIRCUIT

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

➡ : CD SIGNAL LINE
➡ : CD-DA SIGNAL LINE

 : VCD AUDIO SIGNAL LINE
 : MAIN SIGNAL LINE

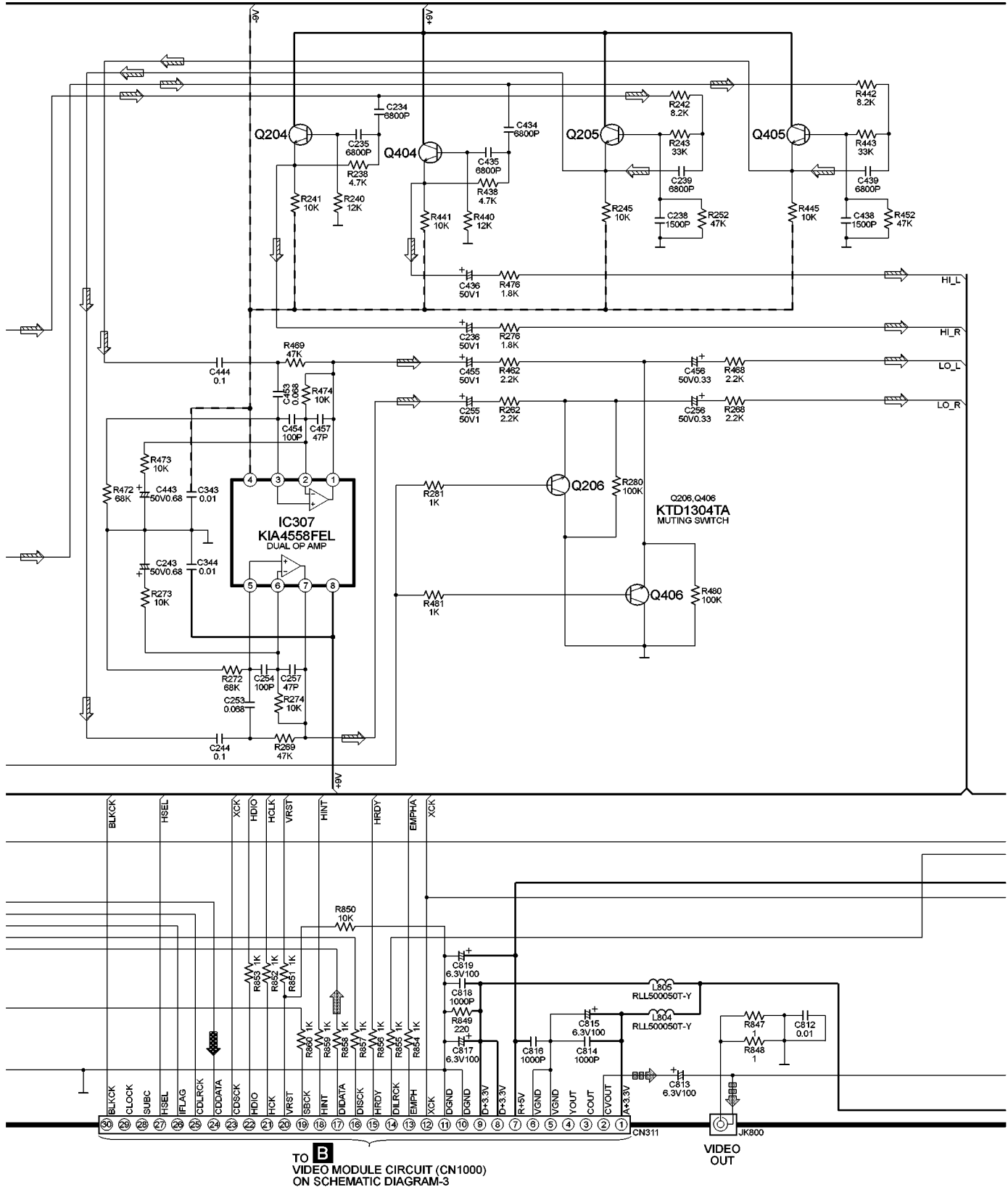


SCHEMATIC DIAGRAM - 8

C MAIN CIRCUIT

— : +B SIGNAL LINE  : VCD AUDIO SIGNAL LINE  : CD-DA SIGNAL LINE
 - - : -B SIGNAL LINE  : VCD VIDEO SIGNAL LINE  : MAIN SIGNAL LINE

 Q204, Q404
 KTC3875GRTA
 HIGH PASS FREQUENCY
 AMPLIFIER

 Q205, Q405
 KTC3875GRTA
 LOW PASS FREQUENCY
 AMPLIFIER


SCHEMATIC DIAGRAM - 3

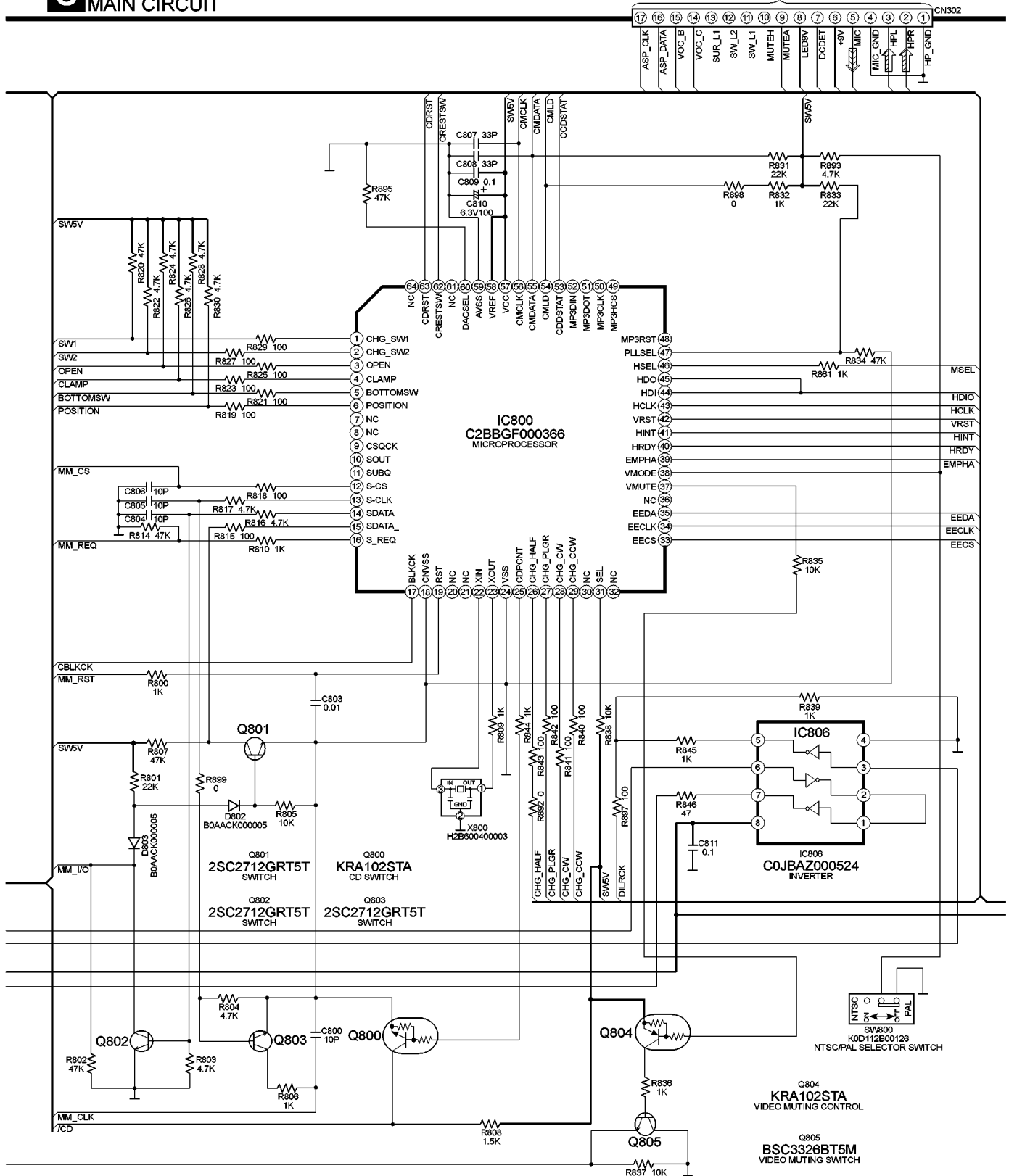
C

MAIN CIRCUIT

— : +B SIGNAL LINE

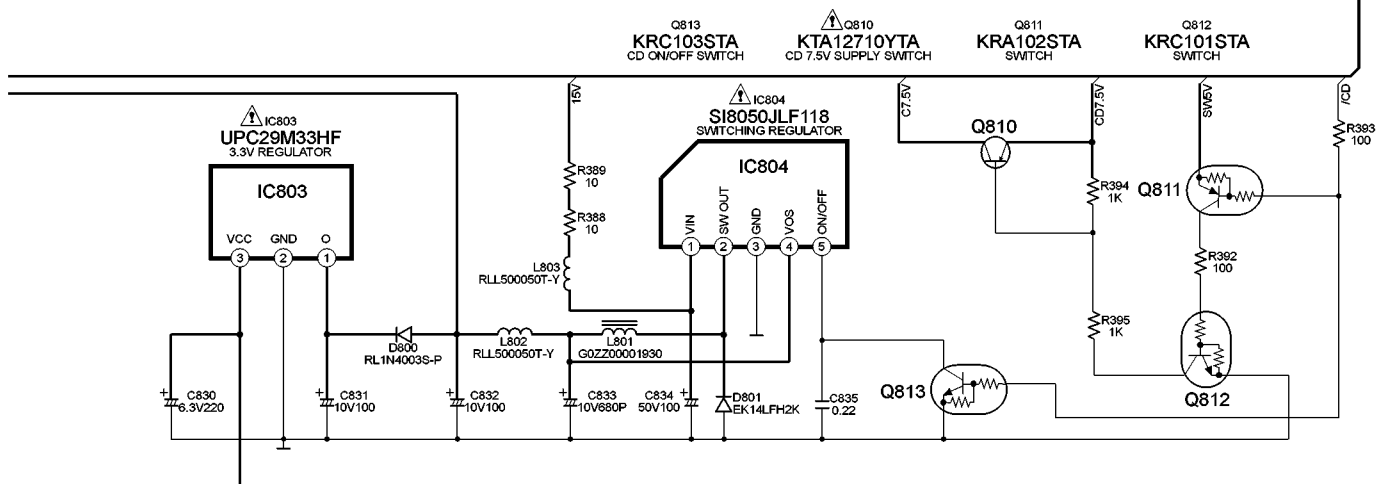
⇒ : MAIN SIGNAL LINE

⇨ : MIC SIGNAL LINE

TO **D**
PANEL CIRCUIT (CP600) ON
SCHEMATIC DIAGRAM-14

SCHEMATIC DIAGRAM - 10

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

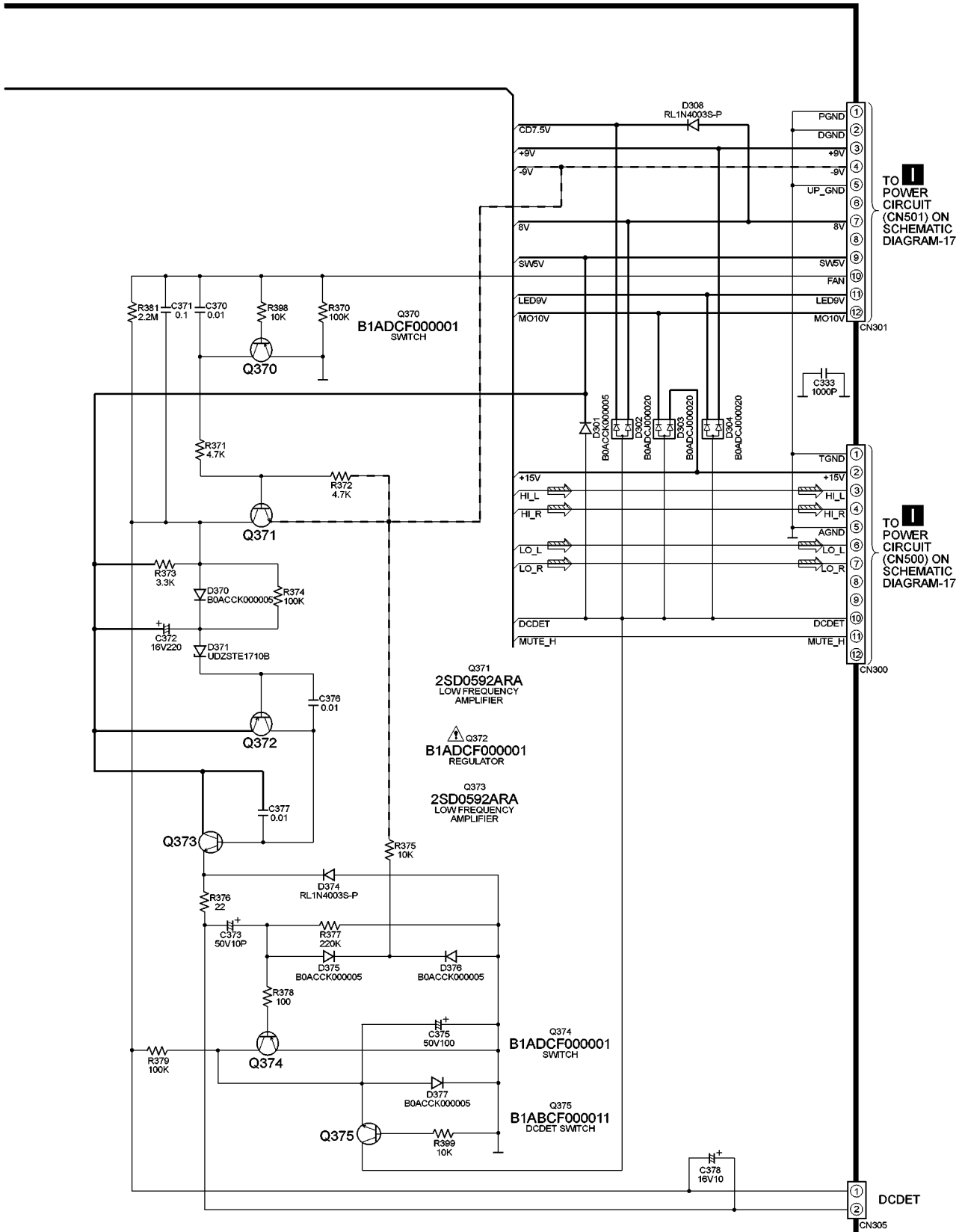
C MAIN CIRCUIT

SCHEMATIC DIAGRAM - 11



MAIN CIRCUIT

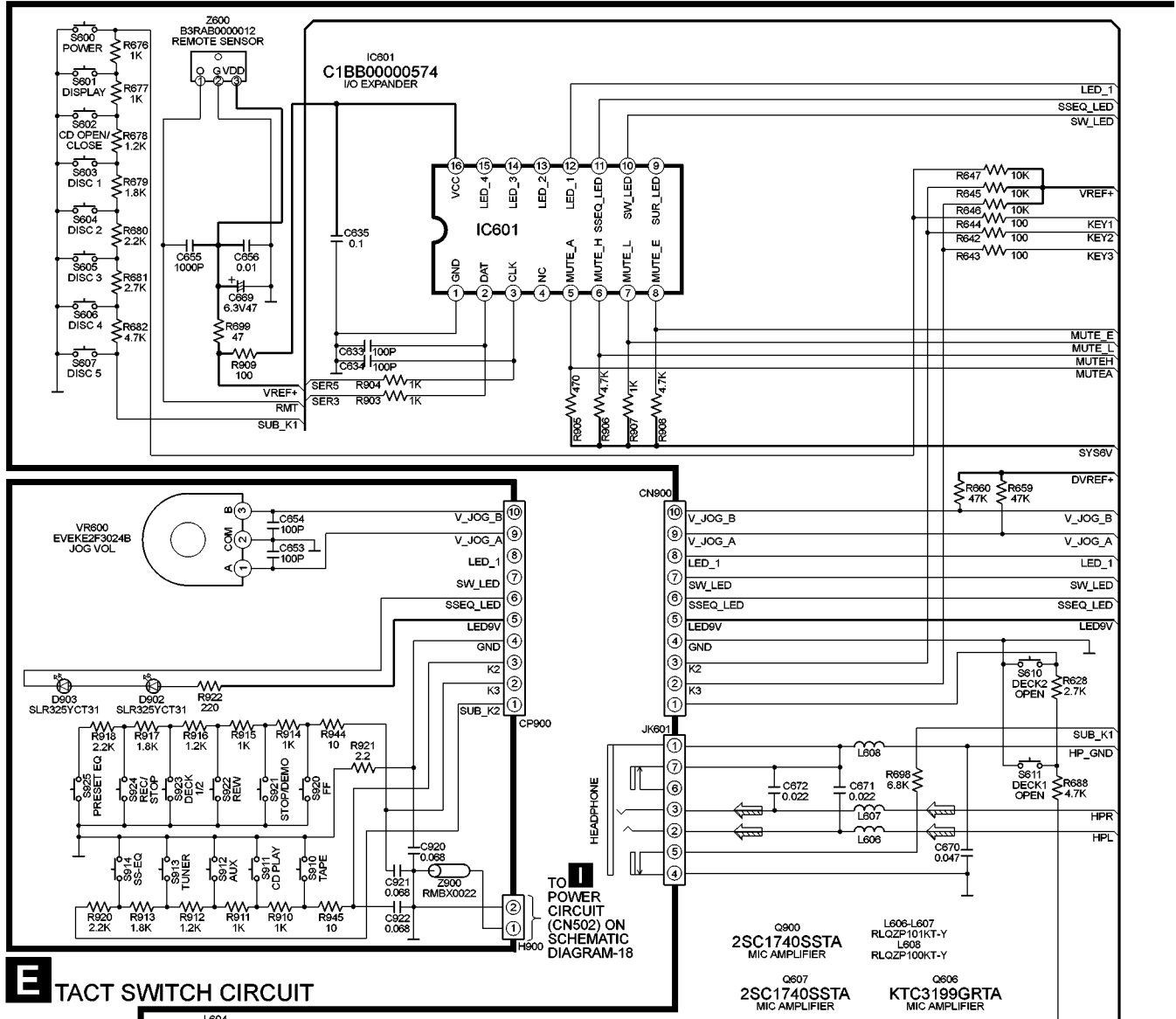
— : +B SIGNAL LINE - - : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE



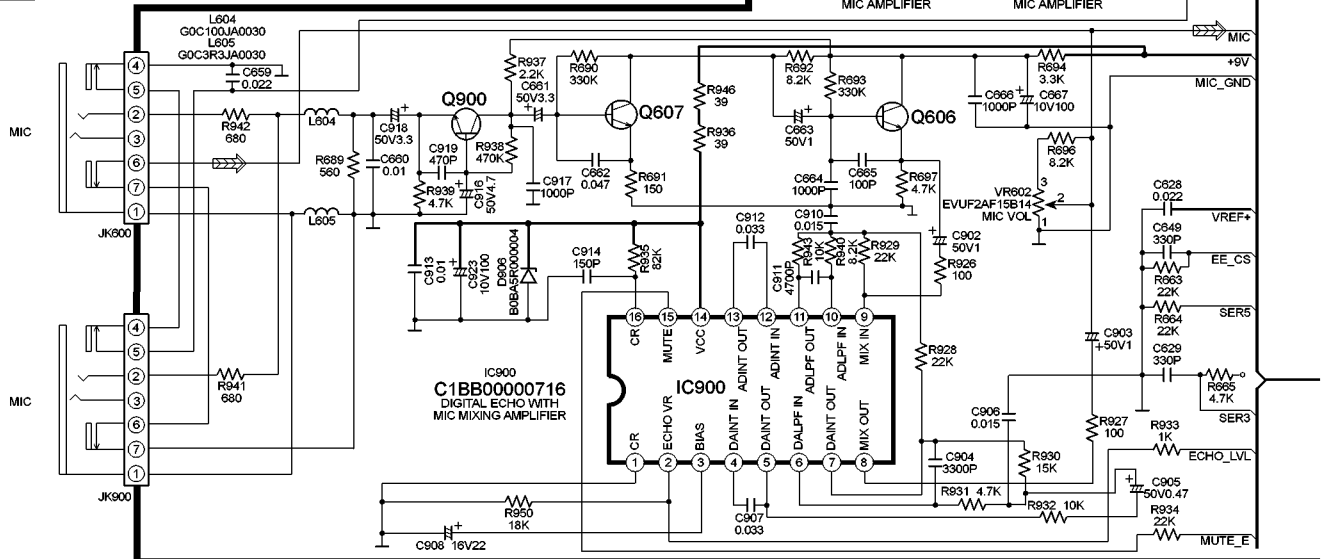
SCHEMATIC DIAGRAM - 12

D PANEL CIRCUIT

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



E TACT SWITCH CIRCUIT



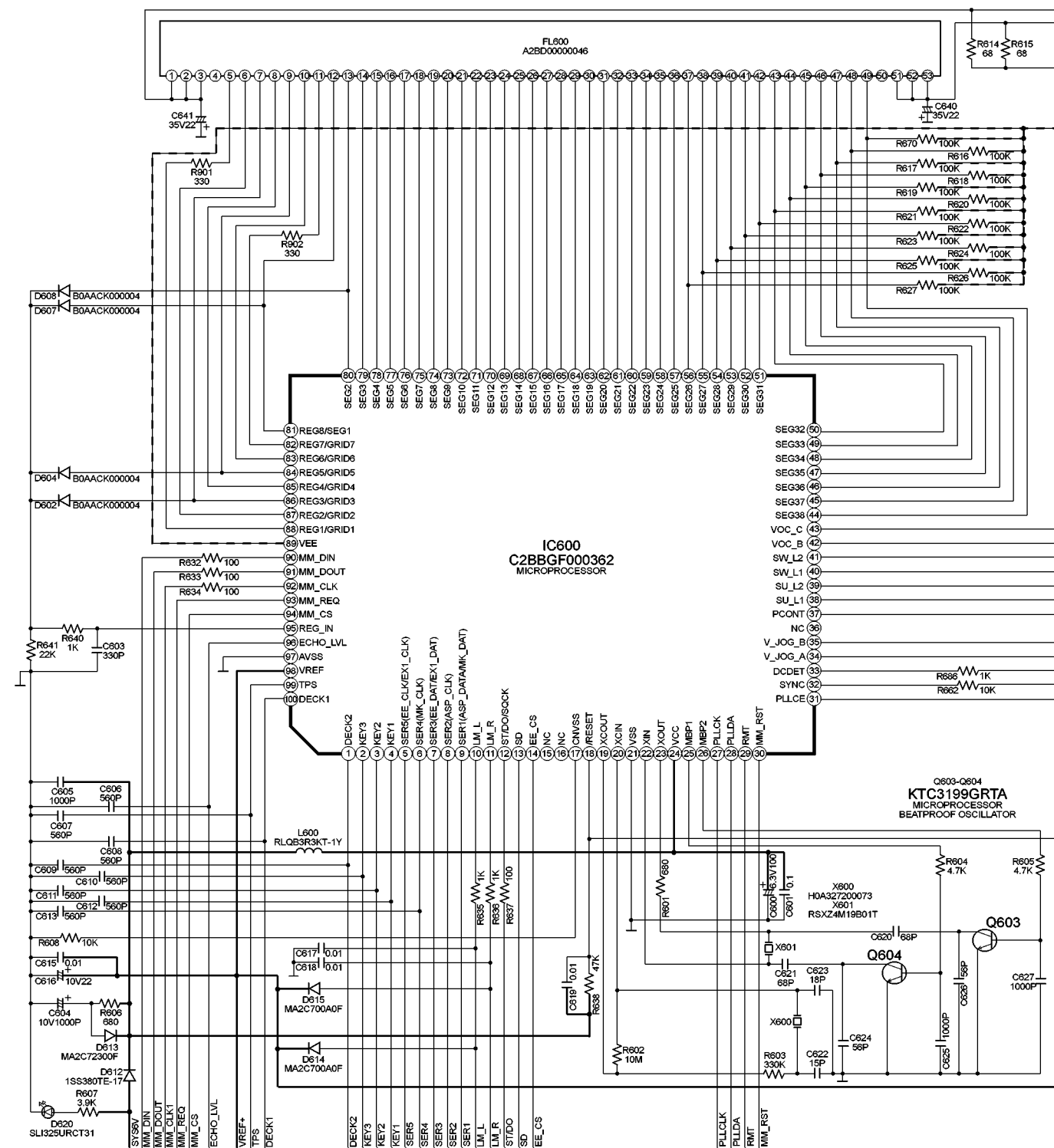
SCHEMATIC DIAGRAM - 13

D

PANEL CIRCUIT

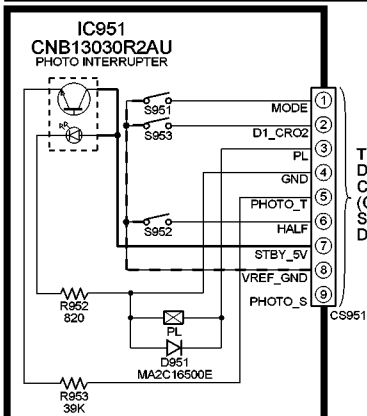
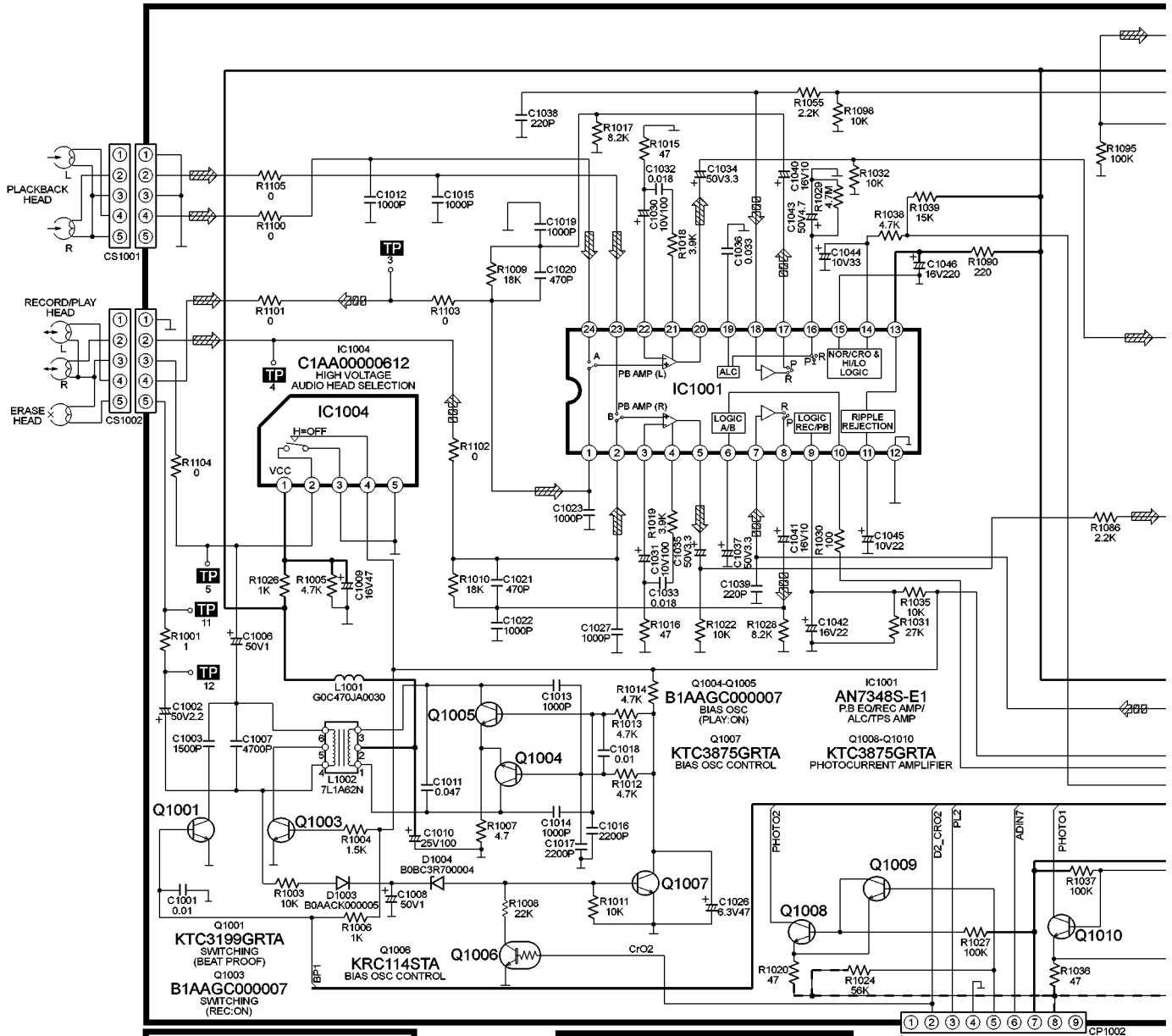
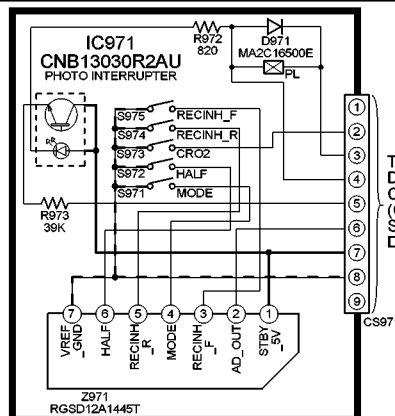
— : +B SIGNAL LINE

— — : -B SIGNAL LINE



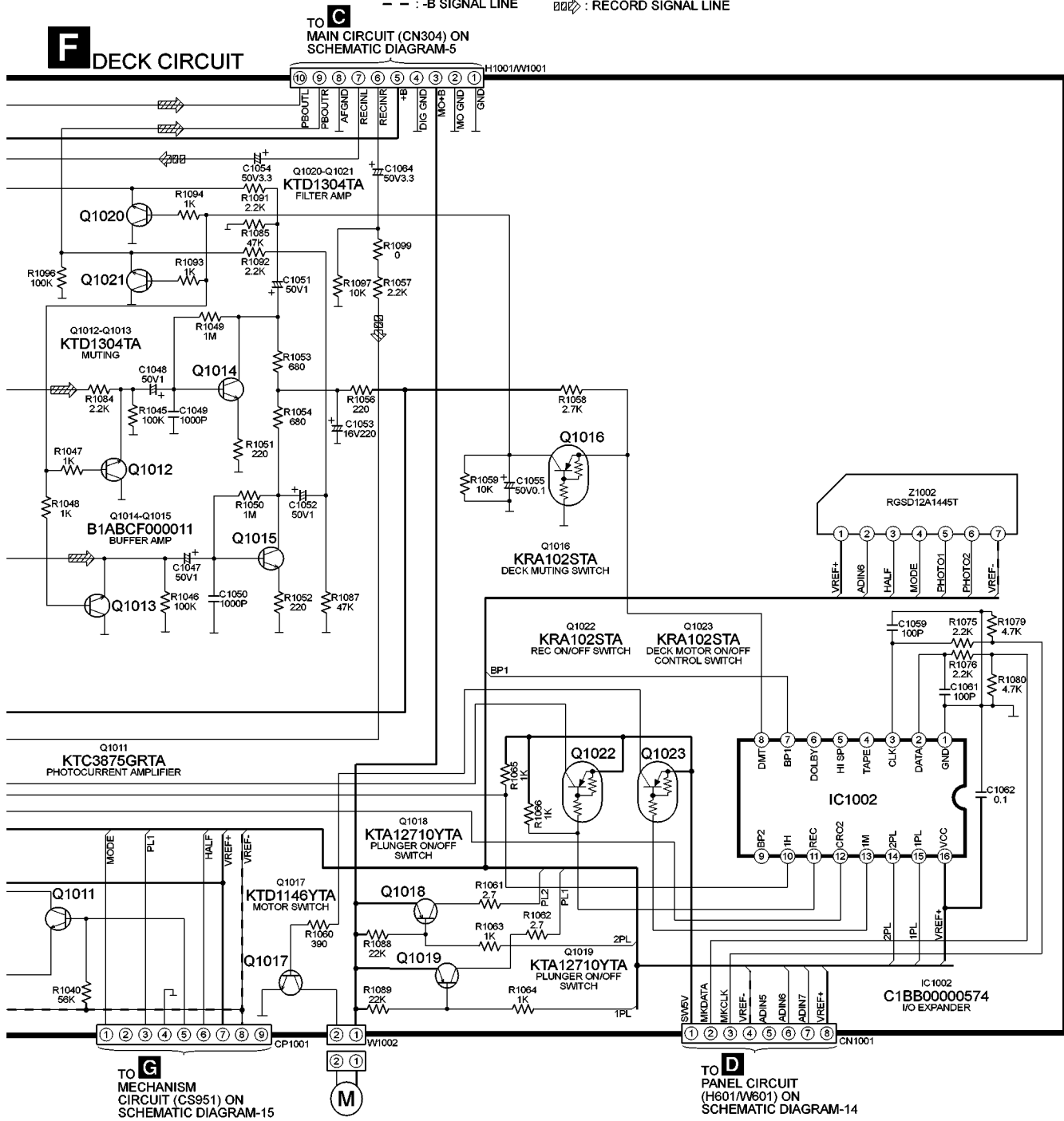
SCHEMATIC DIAGRAM - 15

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

F DECK CIRCUIT**G** MECHANISM CIRCUIT (DECK 1)**H** MECHANISM CIRCUIT (DECK 2)

SCHEMATIC DIAGRAM - 16

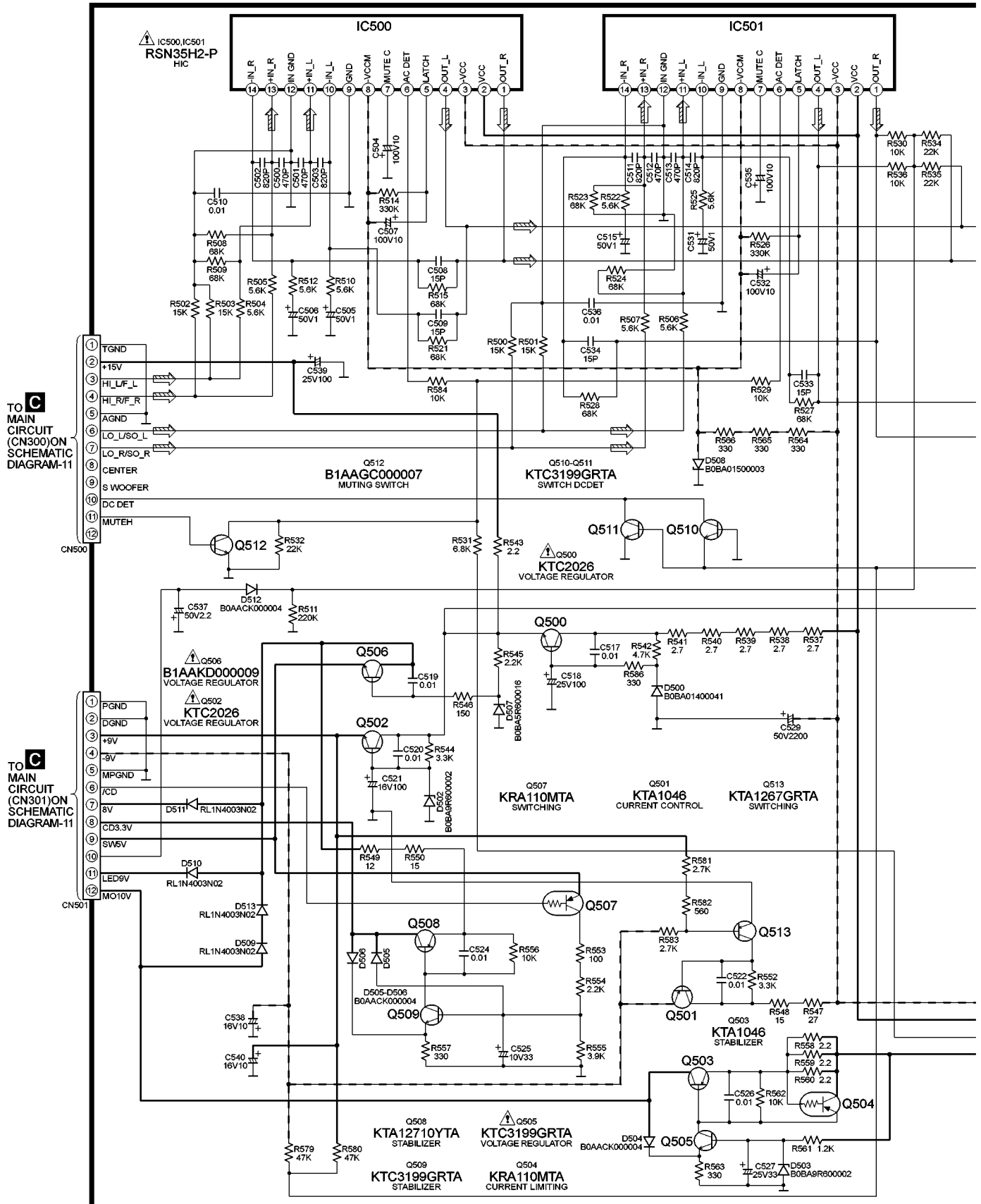
— : +B SIGNAL LINE  : PLAYBACK SIGNAL LINE
 - - : -B SIGNAL LINE  : RECORD SIGNAL LINE

F DECK CIRCUIT

SCHEMATIC DIAGRAM - 17

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

I POWER CIRCUIT

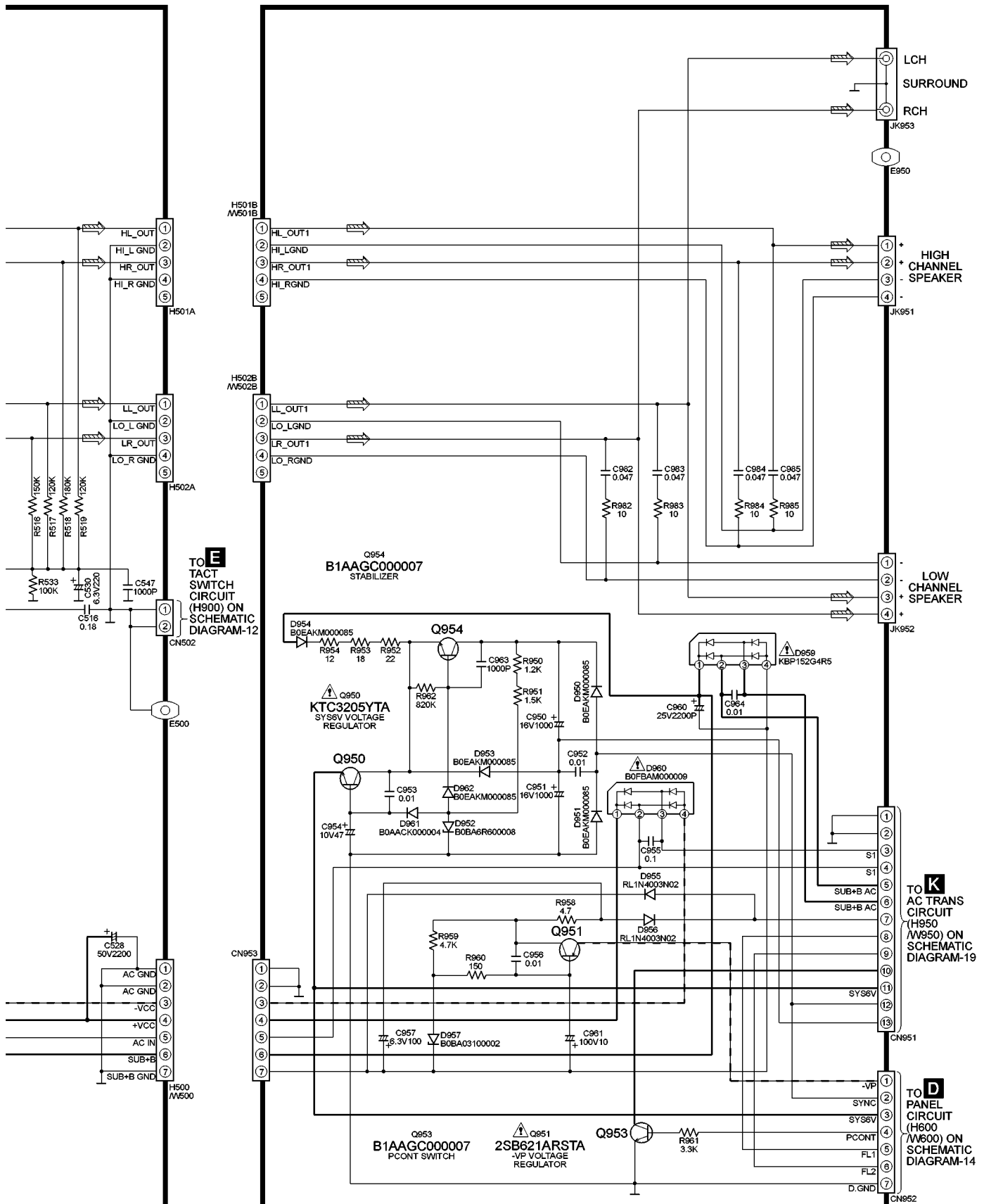


SCHEMATIC DIAGRAM - 18

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

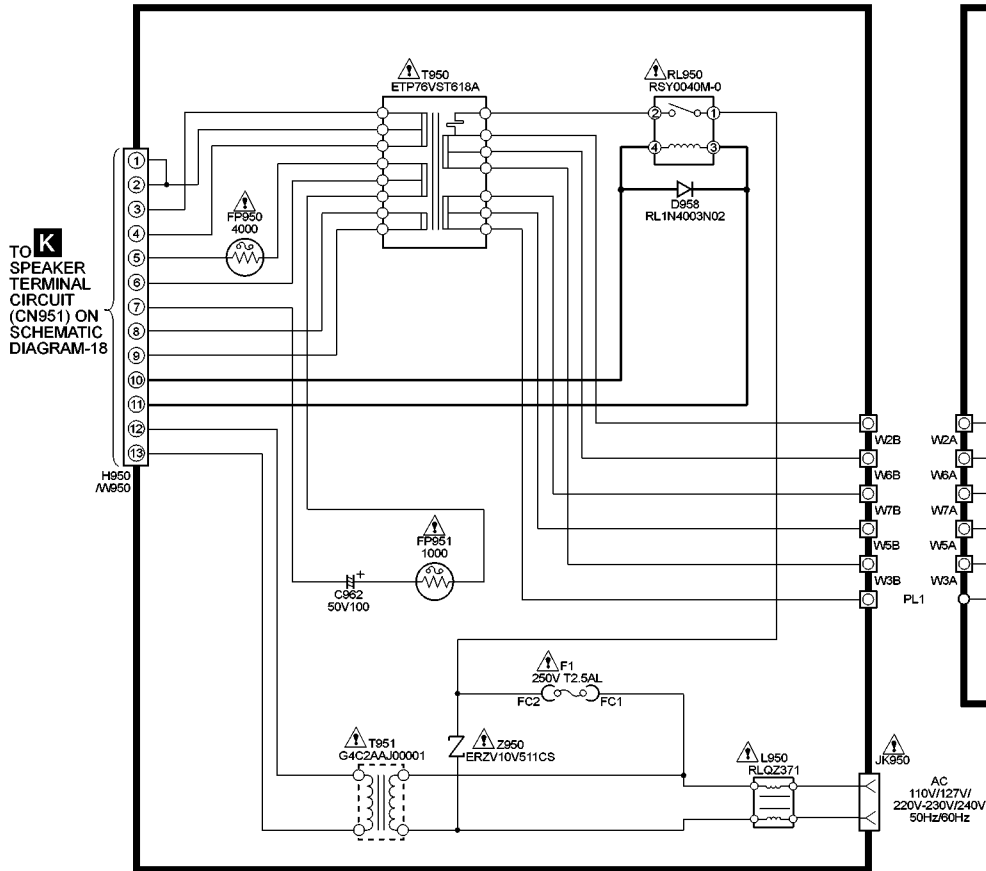
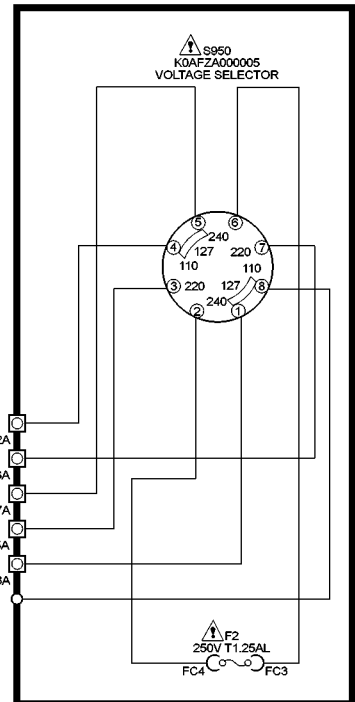
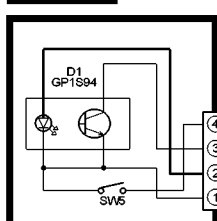
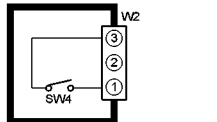
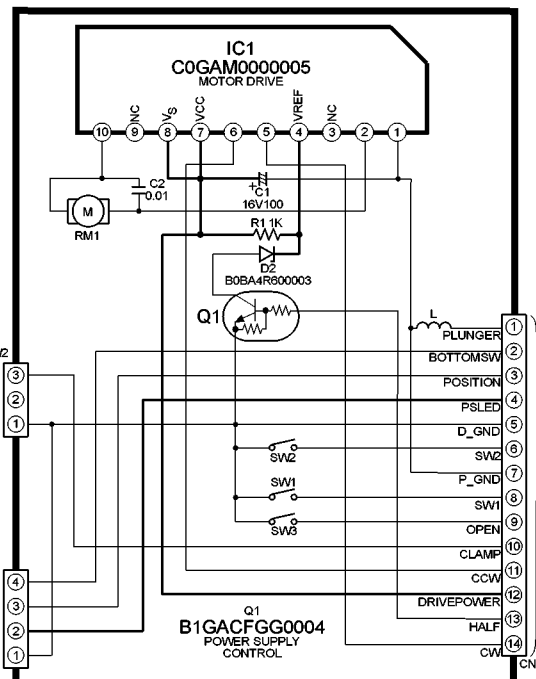
J

SPEAKER TERMINAL CIRCUIT



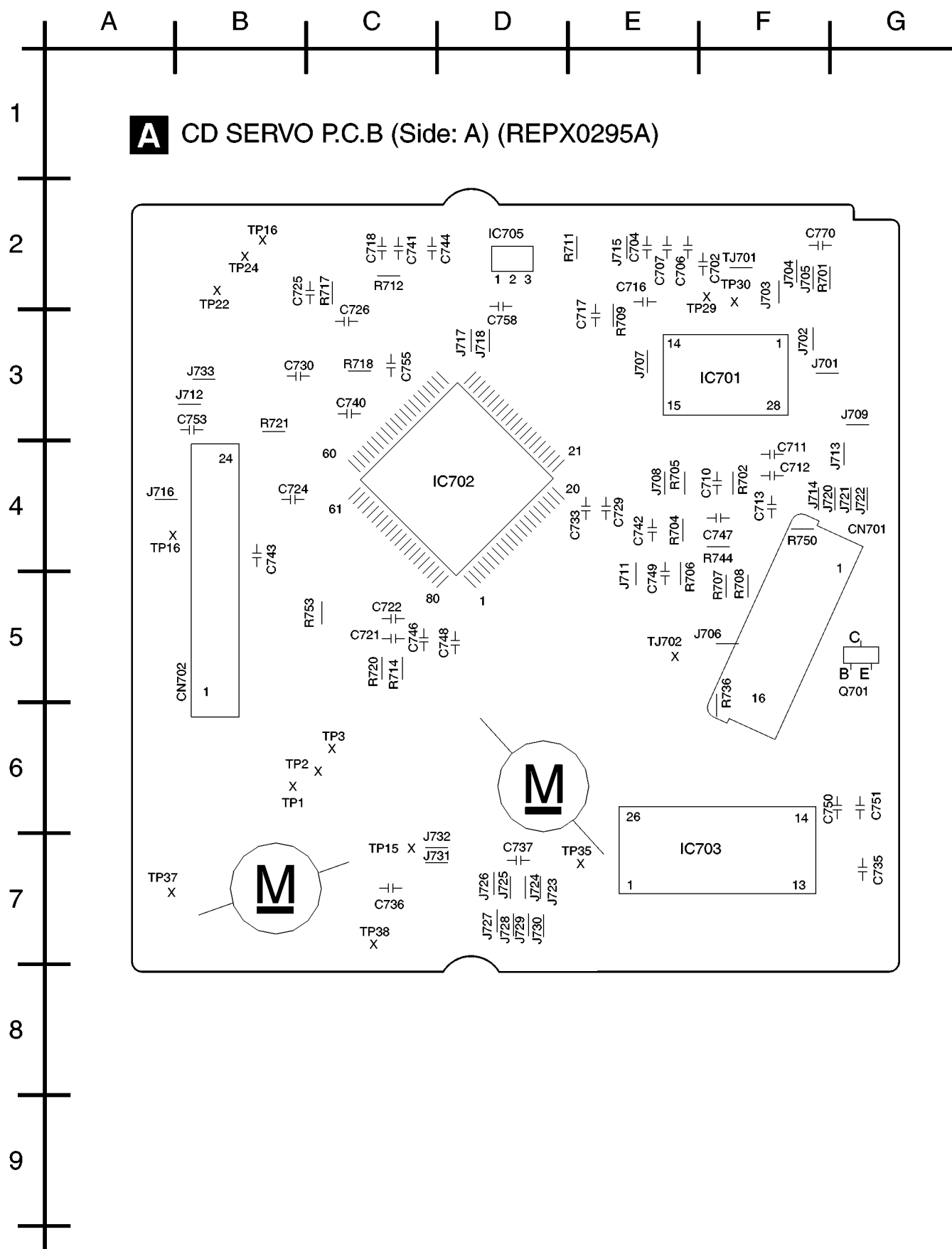
SCHEMATIC DIAGRAM - 19

— : +B SIGNAL LINE

K AC TRANSFORMER CIRCUIT**L** VOLTAGE SELECTOR CIRCUIT**N** CD DETECT CIRCUIT**O** SPINDLE POSITION CIRCUITTO **C** MAIN CIRCUIT (CN309) ON SCHEMATIC DIAGRAM-6

17 Printed Circuit Board

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



A B C D E F G

1

A CD SERVO P.C.B (Side: B) (REPX0295A)

2

3

4

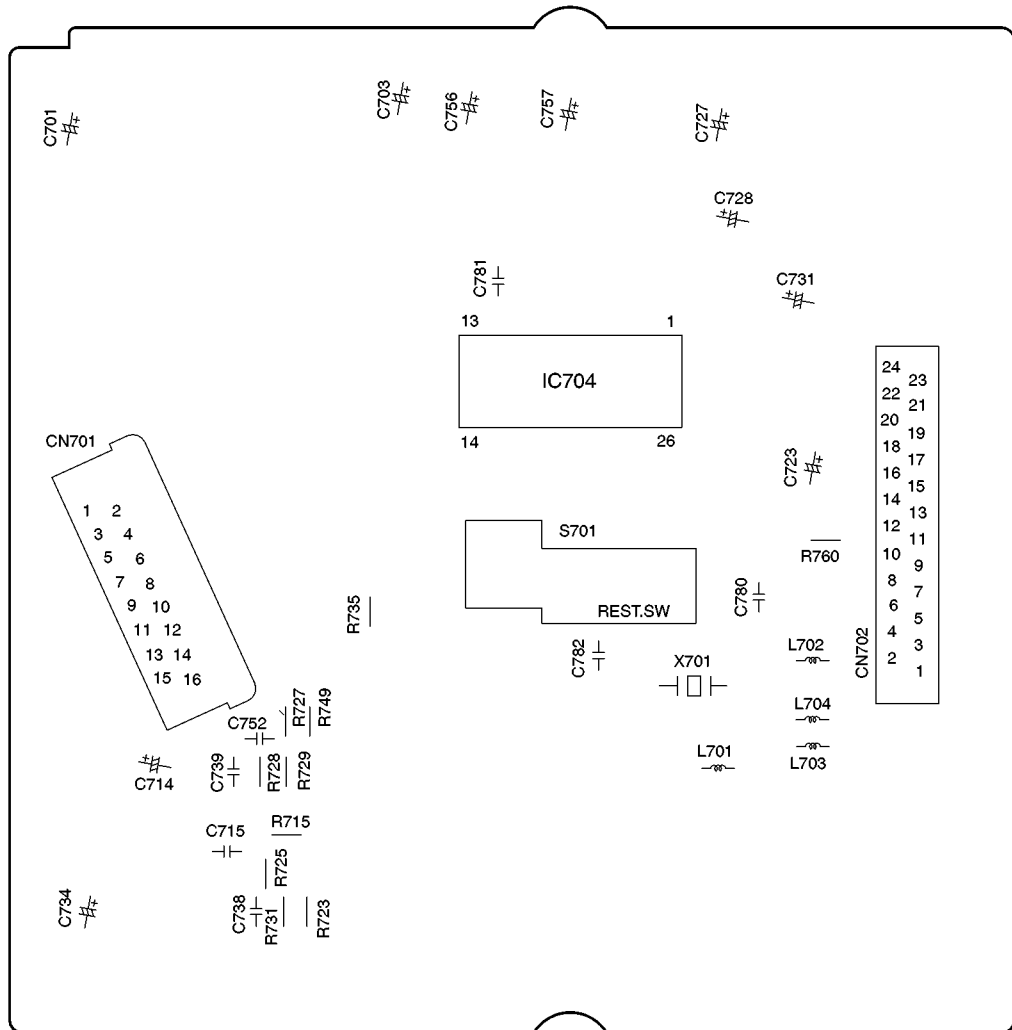
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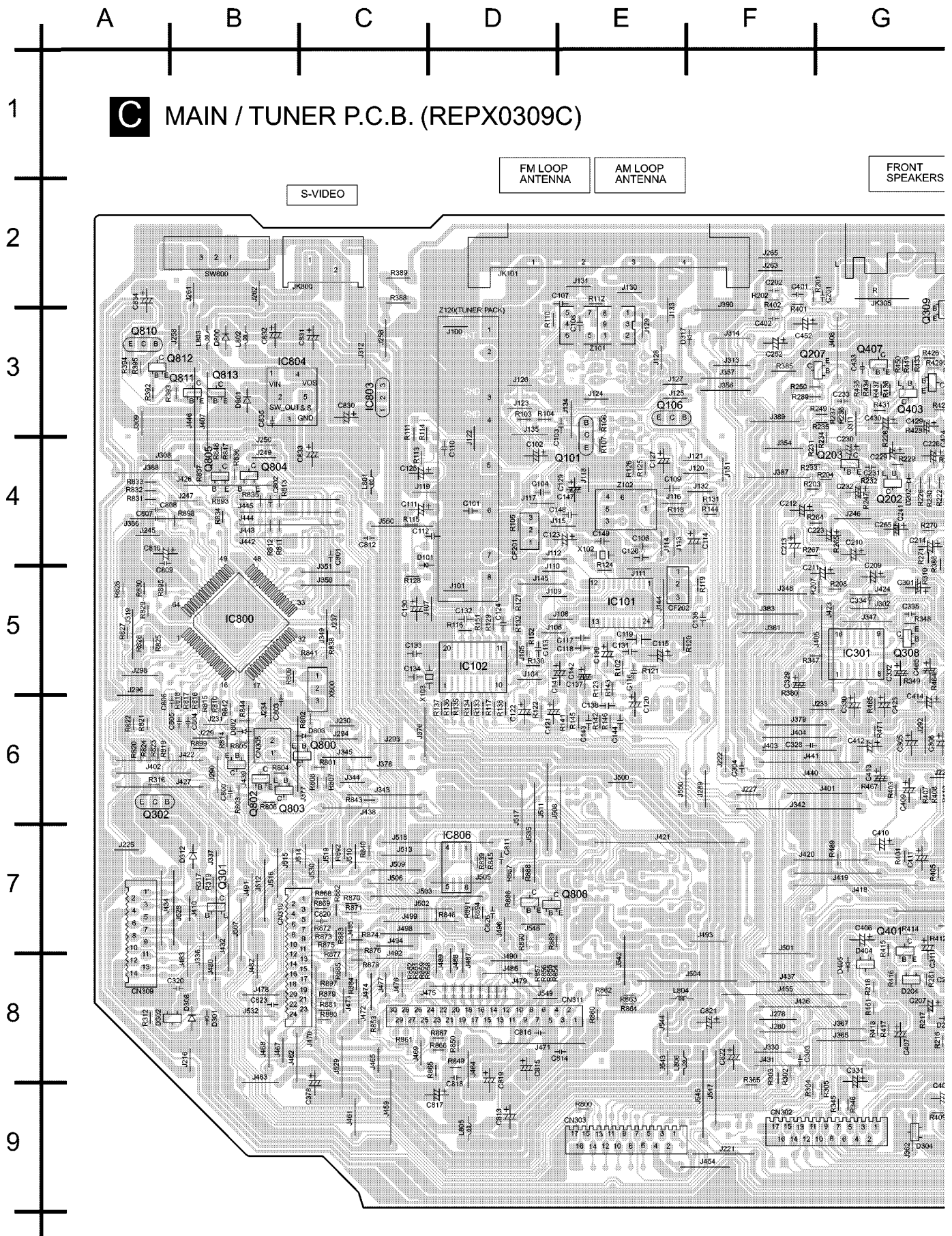
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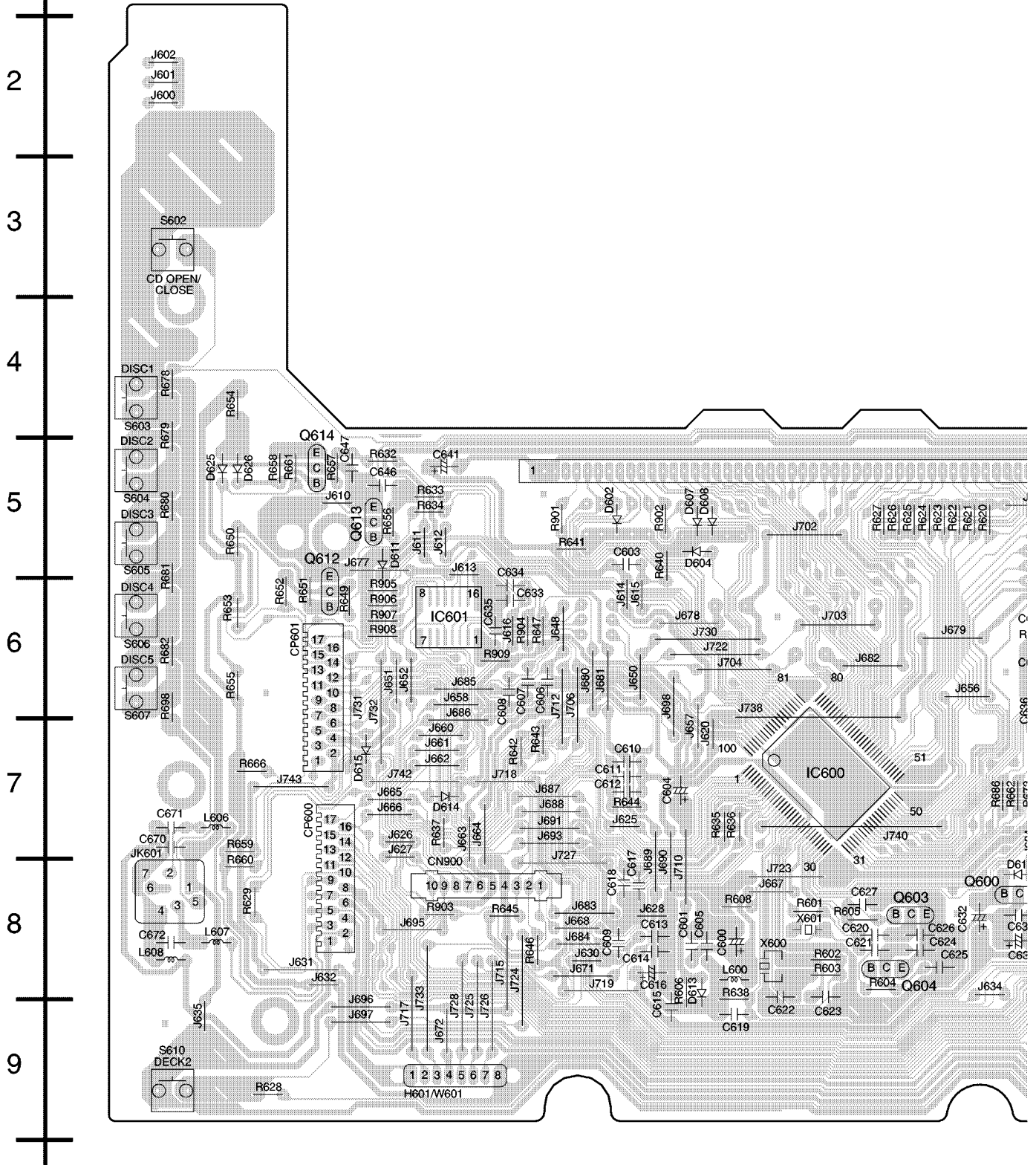
8

9





A B C D E F G

1 **D** PANEL P.C.B. (REPX0308C)

G

H

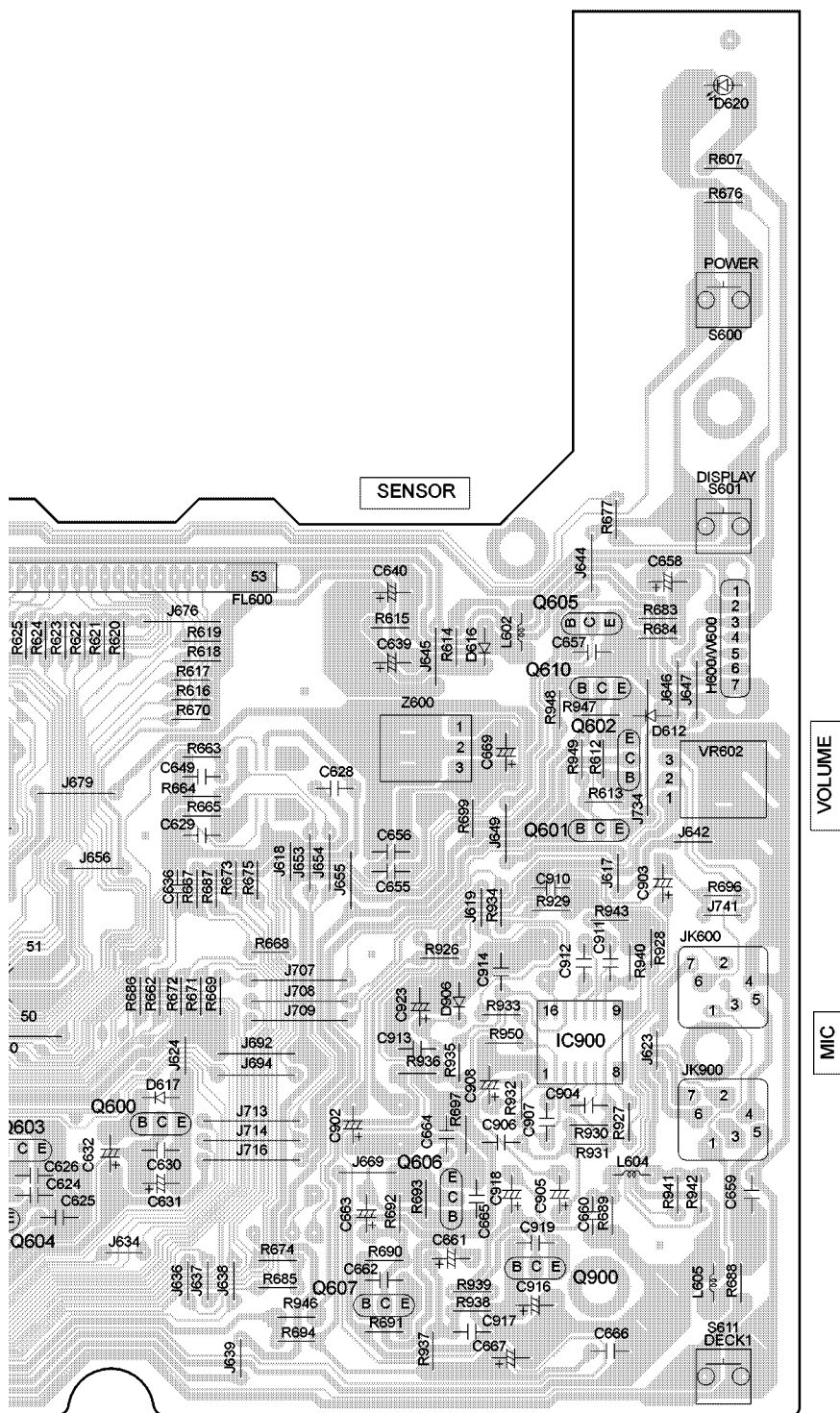
I

J

K

L

M



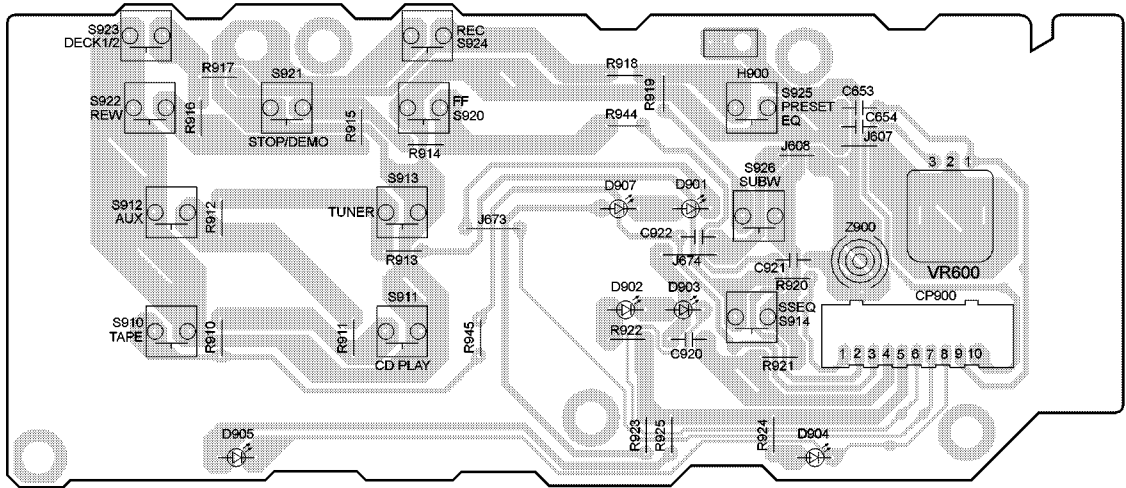
A B C D E F G

1 **E** TACT SWITCH P.C.B. (REPX0308C)

2

3

4



5

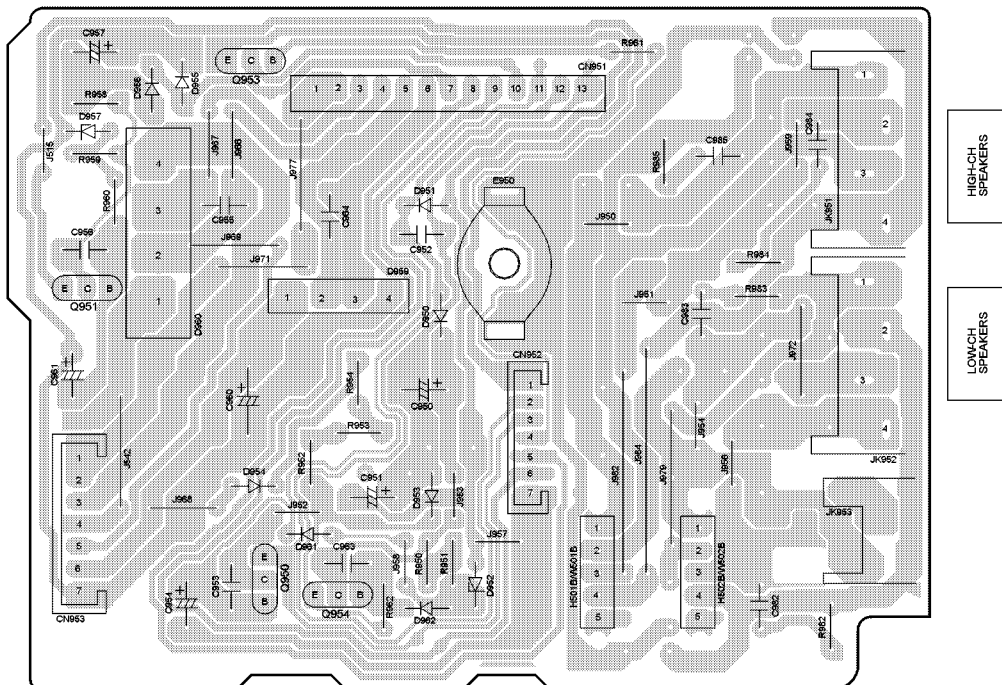
J SPEAKER TERMINAL P.C.B. (REPX0272R)

6

7

8

9



HIGH-CH
SPEAKERS

LOW-CH
SPEAKERS

A B C D E F G

1

F DECK P.C.B. (REPX0282B)

2

3

4

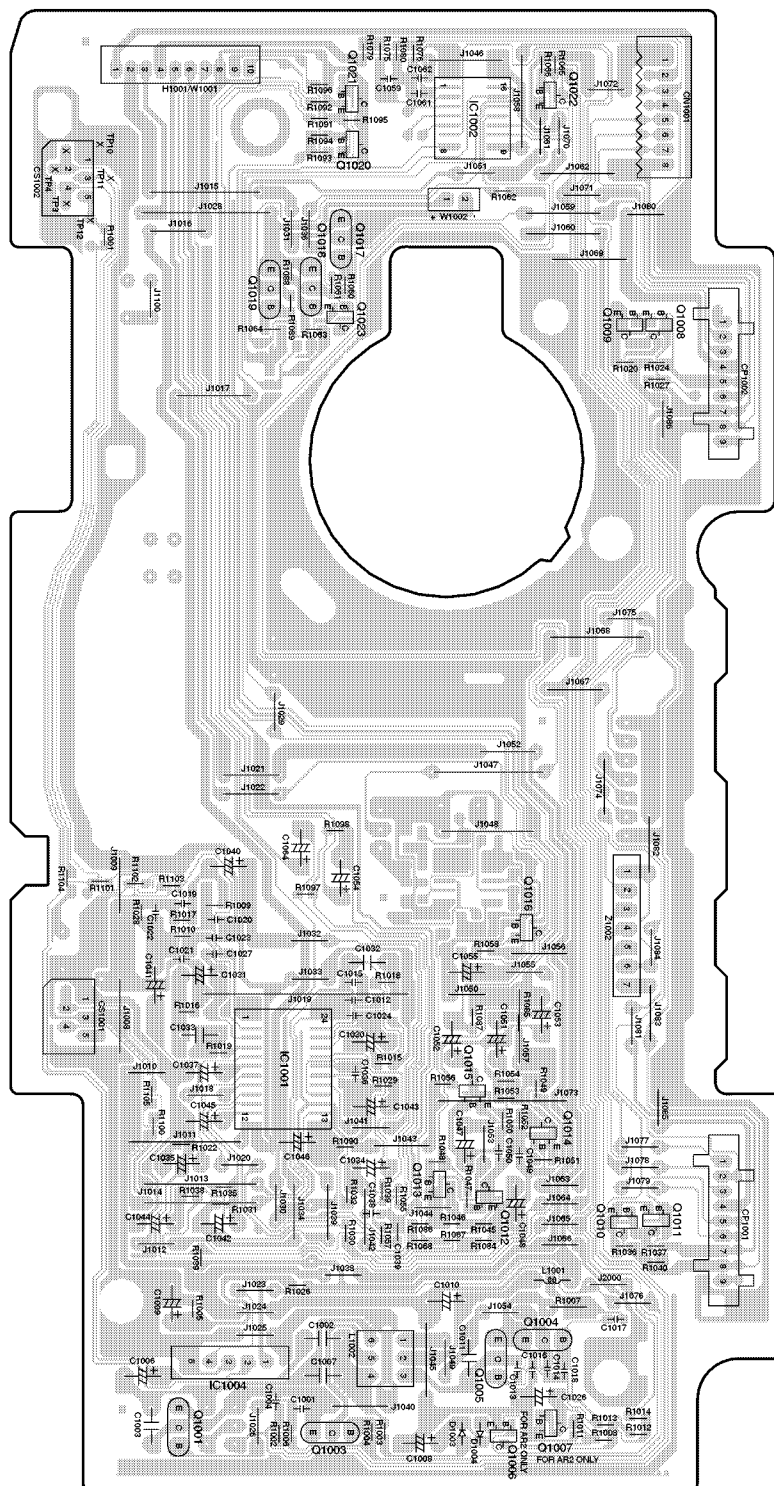
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6

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8

9



A

B

C

D

E

F

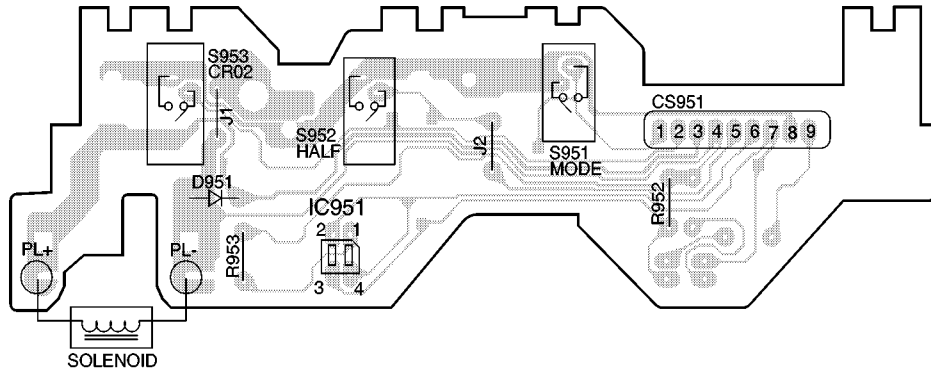
G

1

G MECHANISM (DECK1) P.C.B (REPX0108)

2

3



4

H MECHANISM (DECK2) P.C.B (REPX0108A)

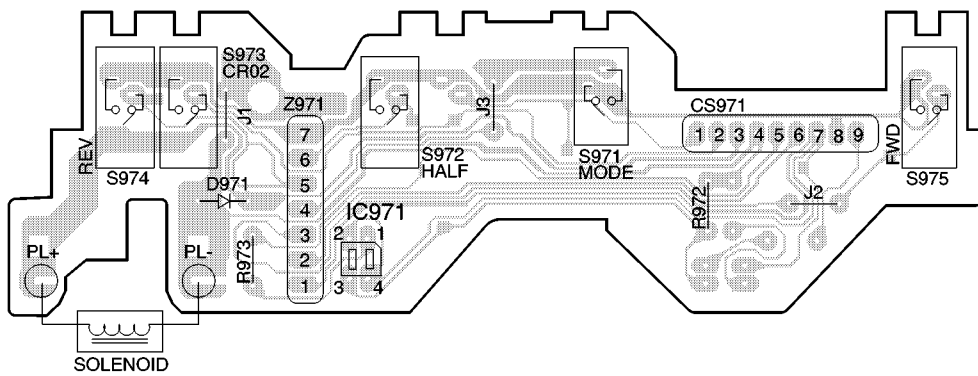
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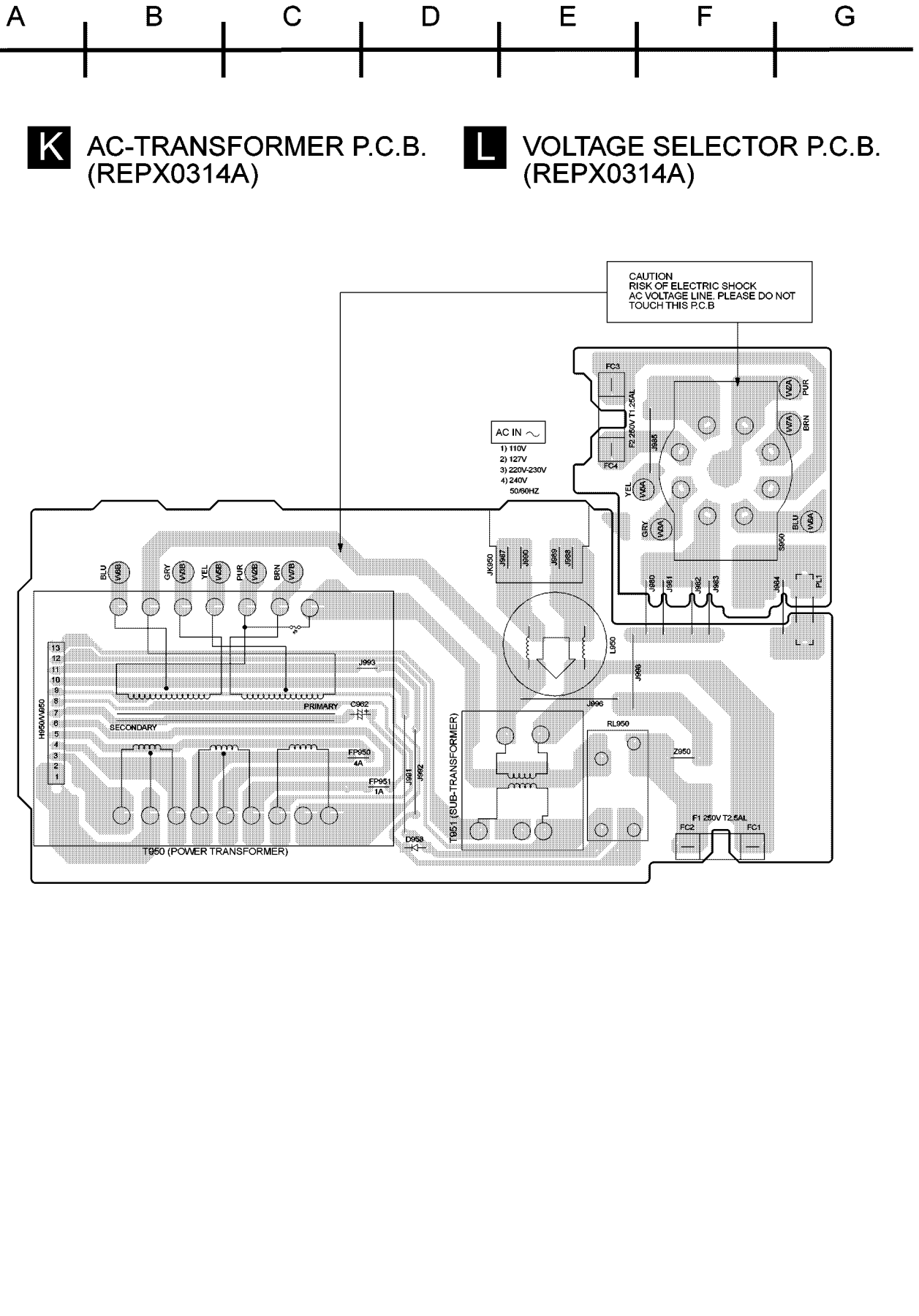
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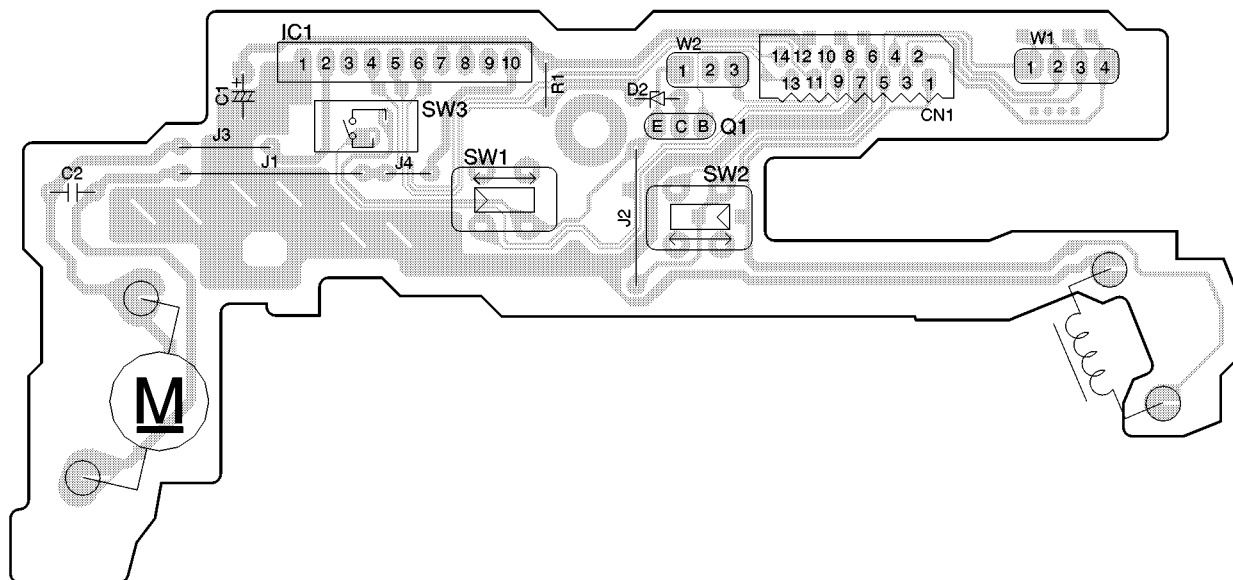
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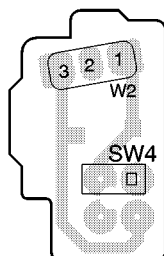




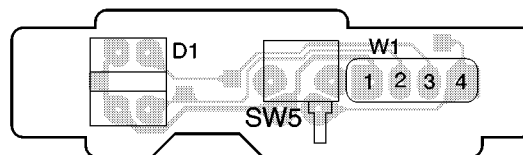
A B C D E F G 1 **M** CD LOADING P.C.B (REP2578A-N)



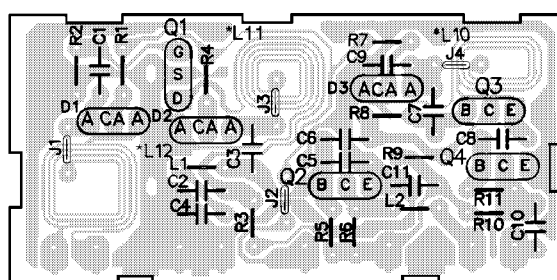
5 **N** CD DETECT P.C.B (REP2578A-N)



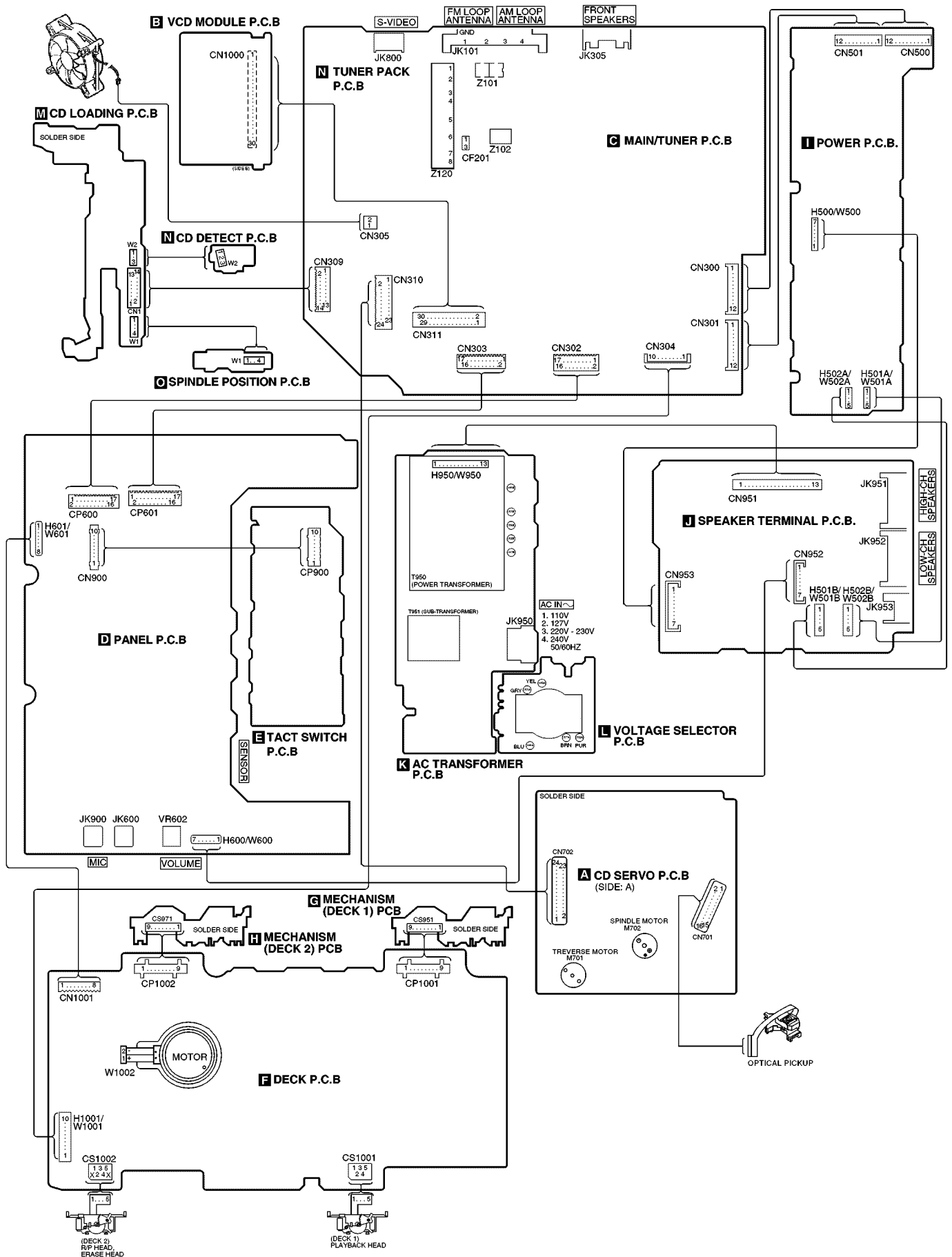
5 **O** SPINDLE POSITION P.C.B (REP2578A-N)



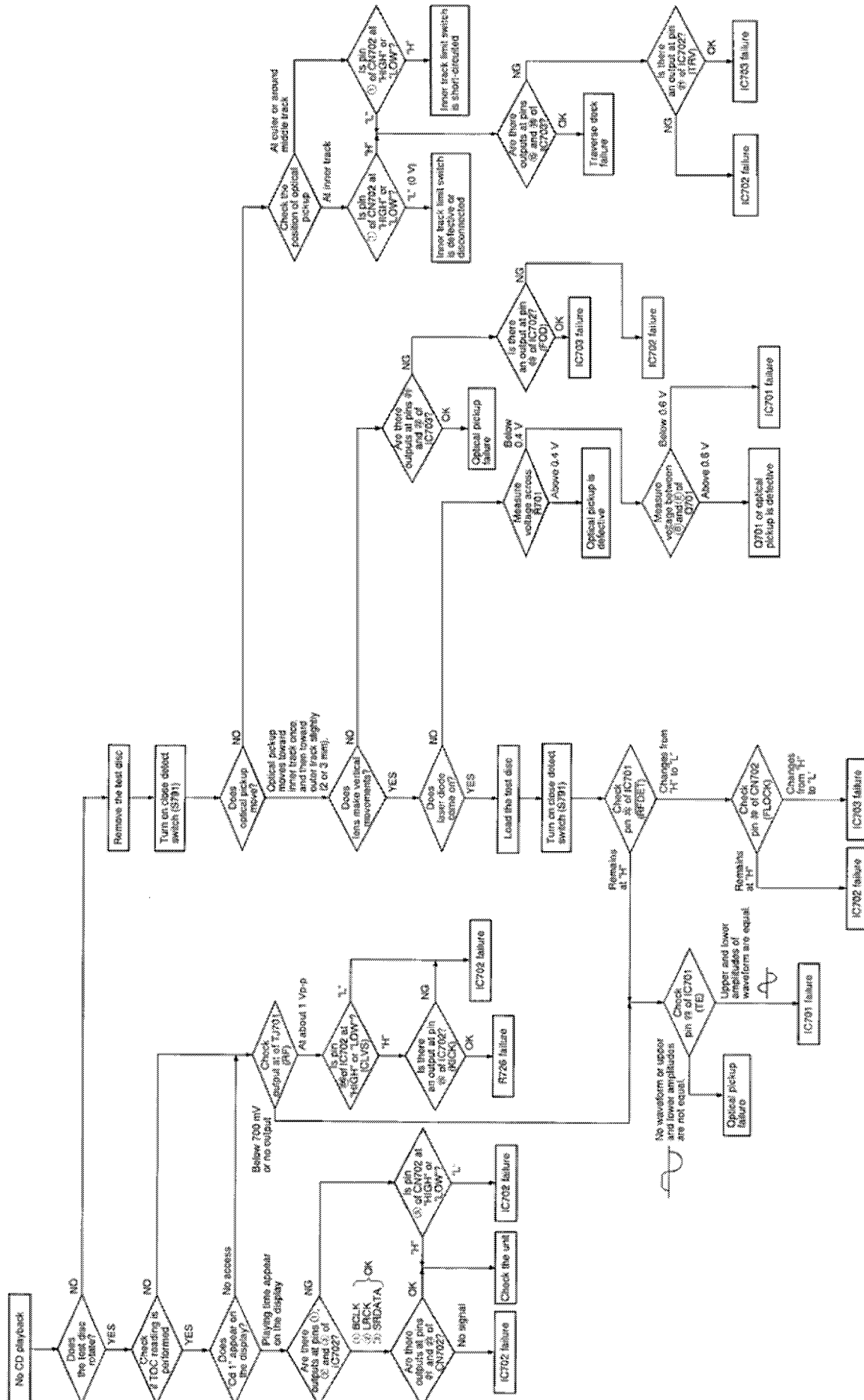
8 **P** TUNER PACK P.C.B (REP1999B)



18 Wiring Connection Diagram



19 Troubleshooting Guide



20 Parts Location and Replacement Parts List

Notes:

- Important safety notice:

Components identified by $\triangle$ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-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 the 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.

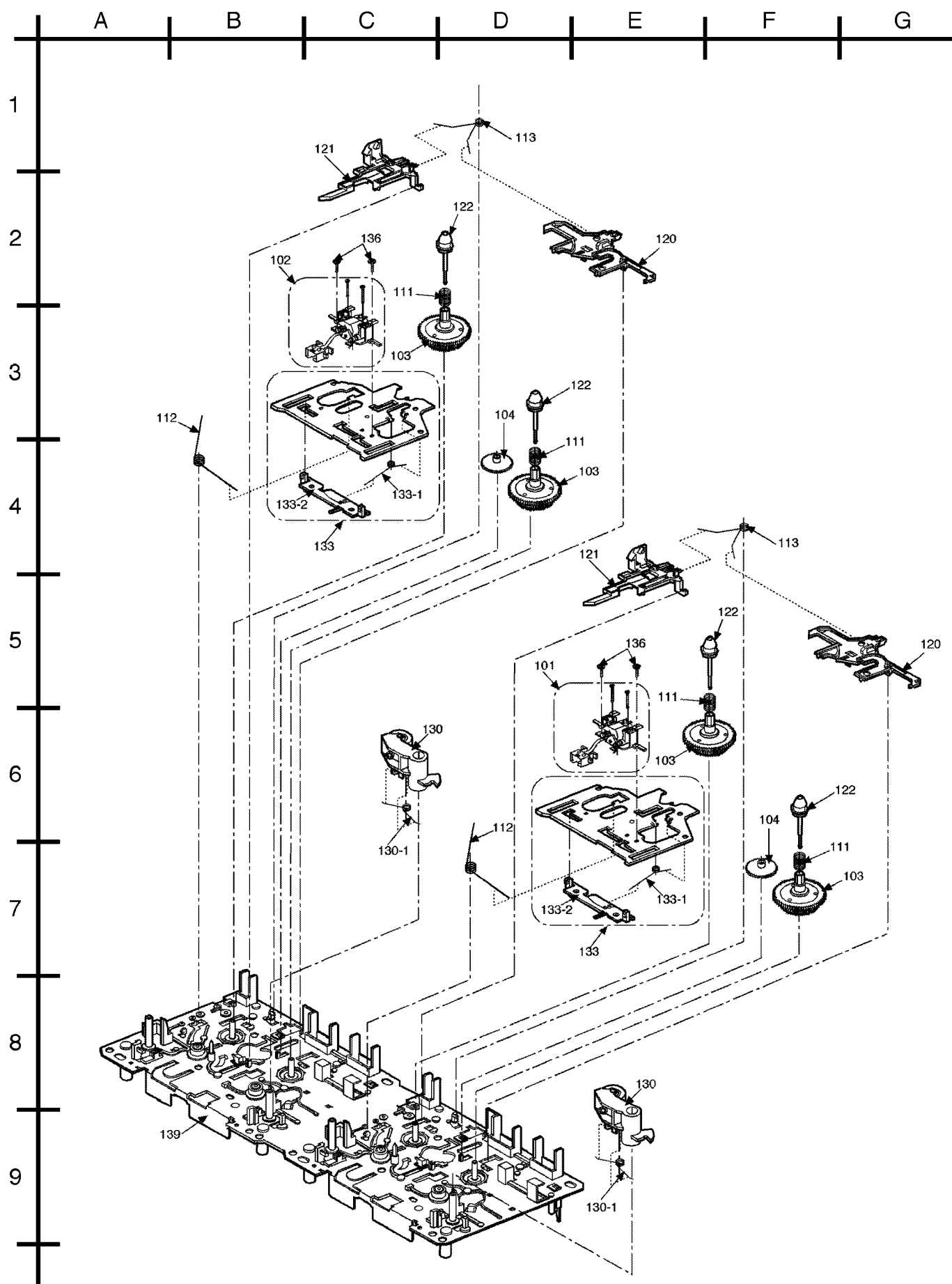
– Die Lasereinheit darf nur gegen eine vom Hersteller spezifizierte Einheit ausgetauscht werden.

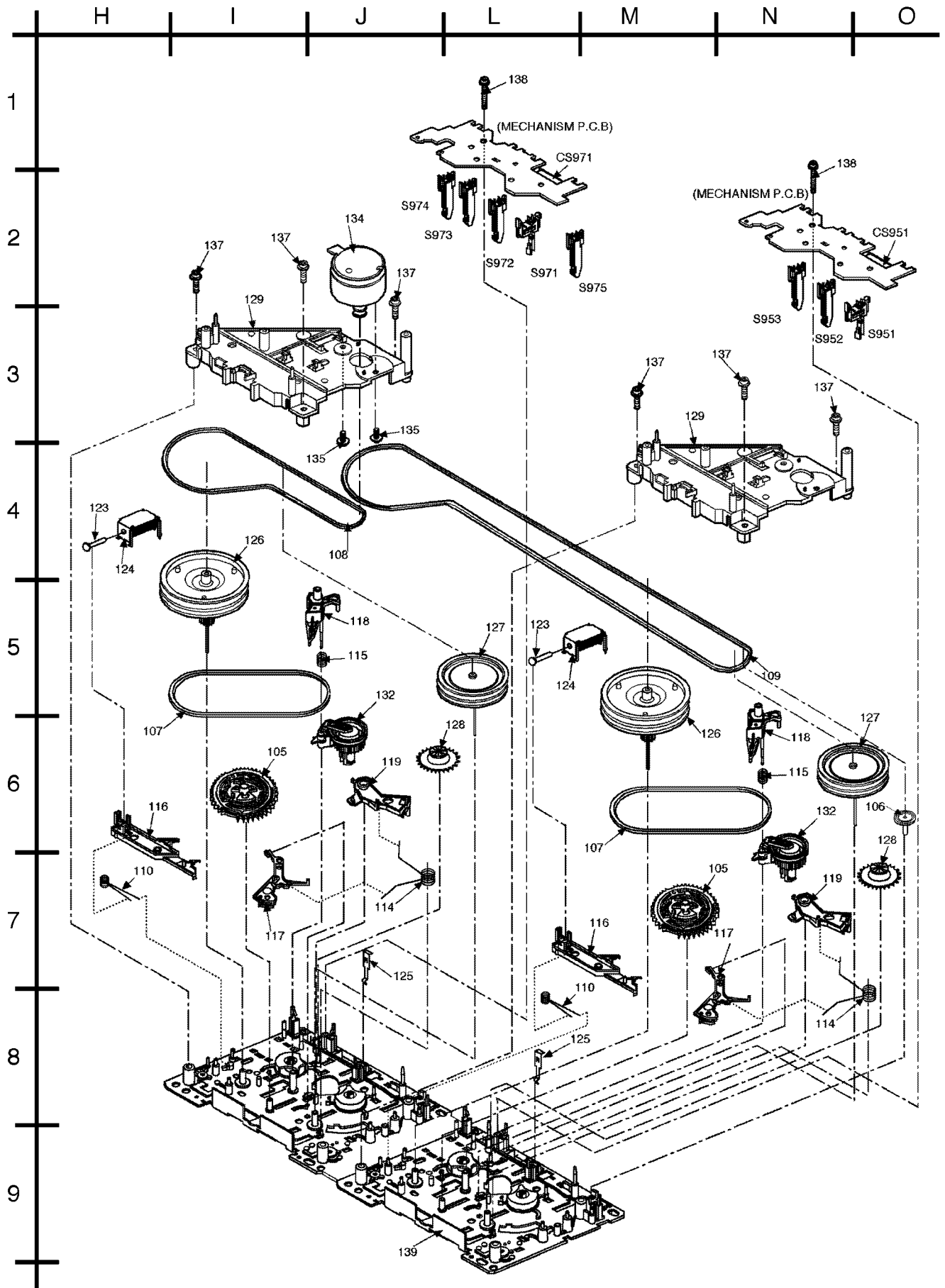
- Capacitor values are in microfarads (μ F) unless specified otherwise, P= Pico-farads (pF), F= Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).
- The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly 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 (RAA3411-S)

20.1.1. Deck Mechanism Parts Location



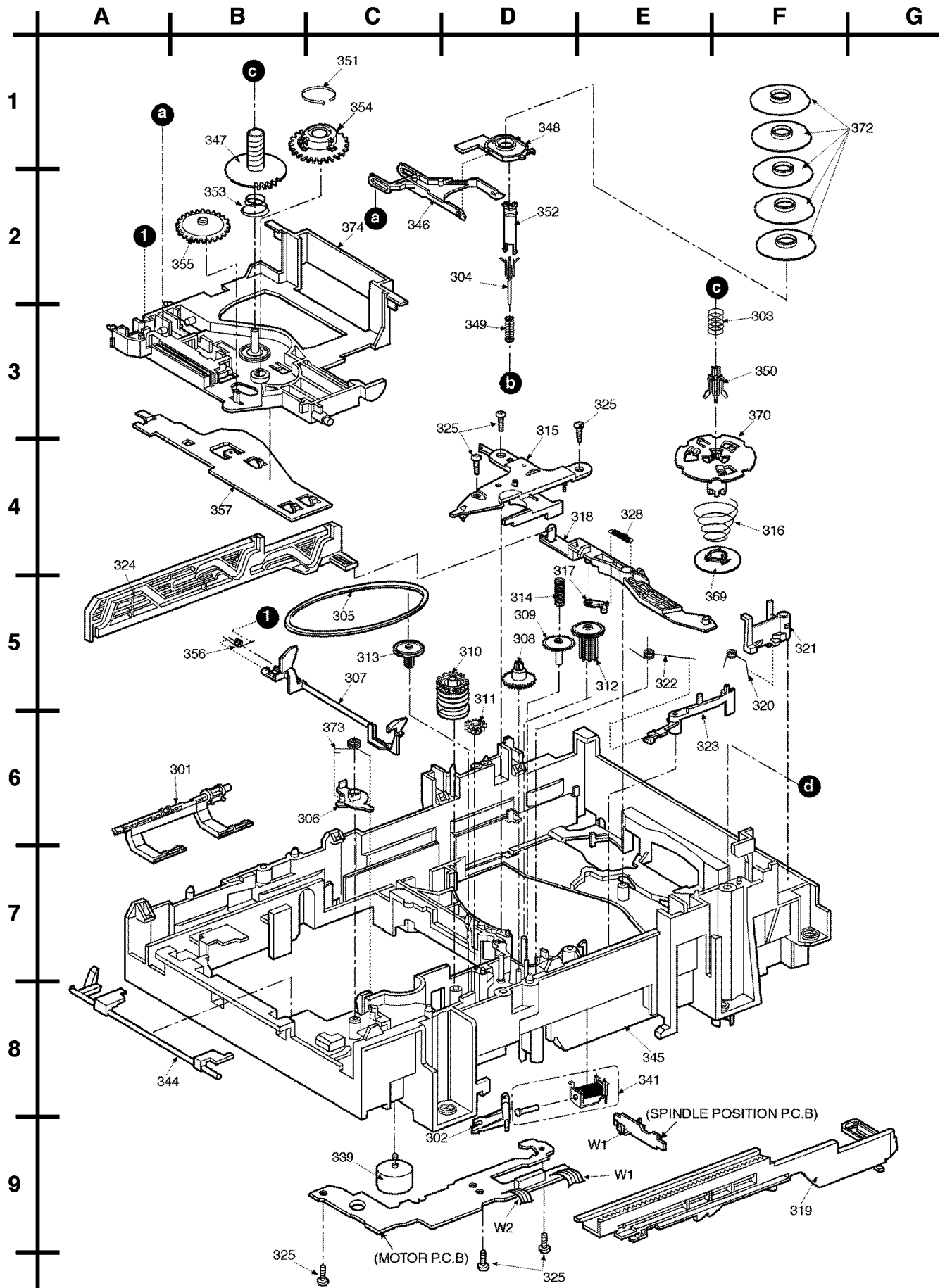


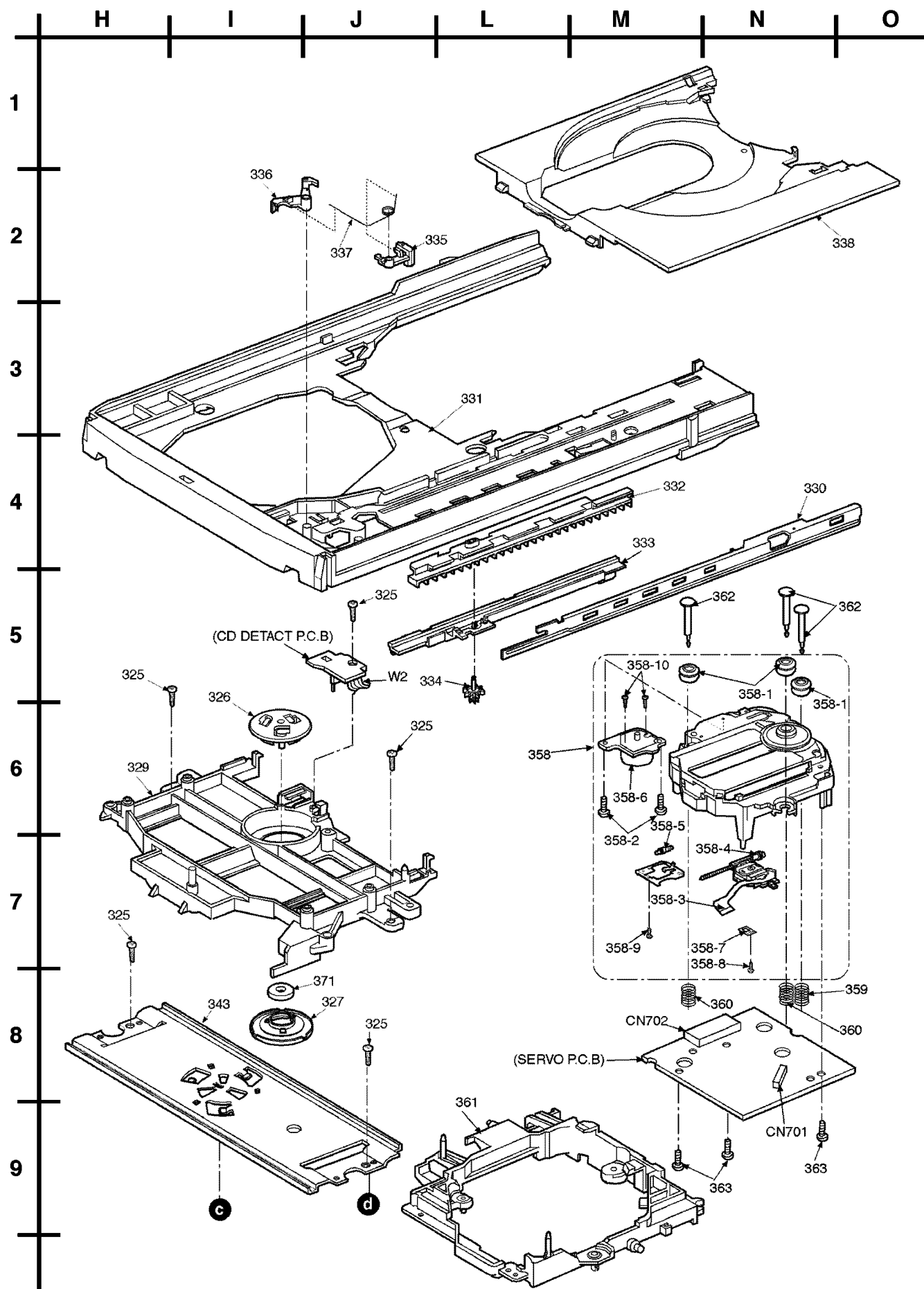
20.1.2. Deck Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	RED0071	R/P HEAD BLOCK UNIT	[M]
102	RED0072	P/B HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026	MAIN GEAR	[M]
106	RDR0029-3	RELAY PULLEY	[M]
107	RDV0033-4	WINDING BELT	[M]
108	RDV0034-1	CAPSTAN BELT A	[M]
109	RDV0057	MAIN BELT B	[M]
110	RMB0312	TRIGGER LEVER SPRING	[M]
111	RMB0400	REEL SPRING	[M]
112	RMB0403	HEAD 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	RMM0133-1	EJECT ROD	[M]
122	RMQ0519	REEL HUB	[M]
123	RMS0398-1	MOVING CORE	[M]
124	RSJ0003	PLUNGER ASS'Y	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0049	FLYWHEEL F ASSY	[M]
127	RXF0050	FLYWHEEL R 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	REM0088	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	RFKJXED70-K	MAIN CHASSIS	[M]

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

20.2.1. CD Loading Mechanism Parts Location





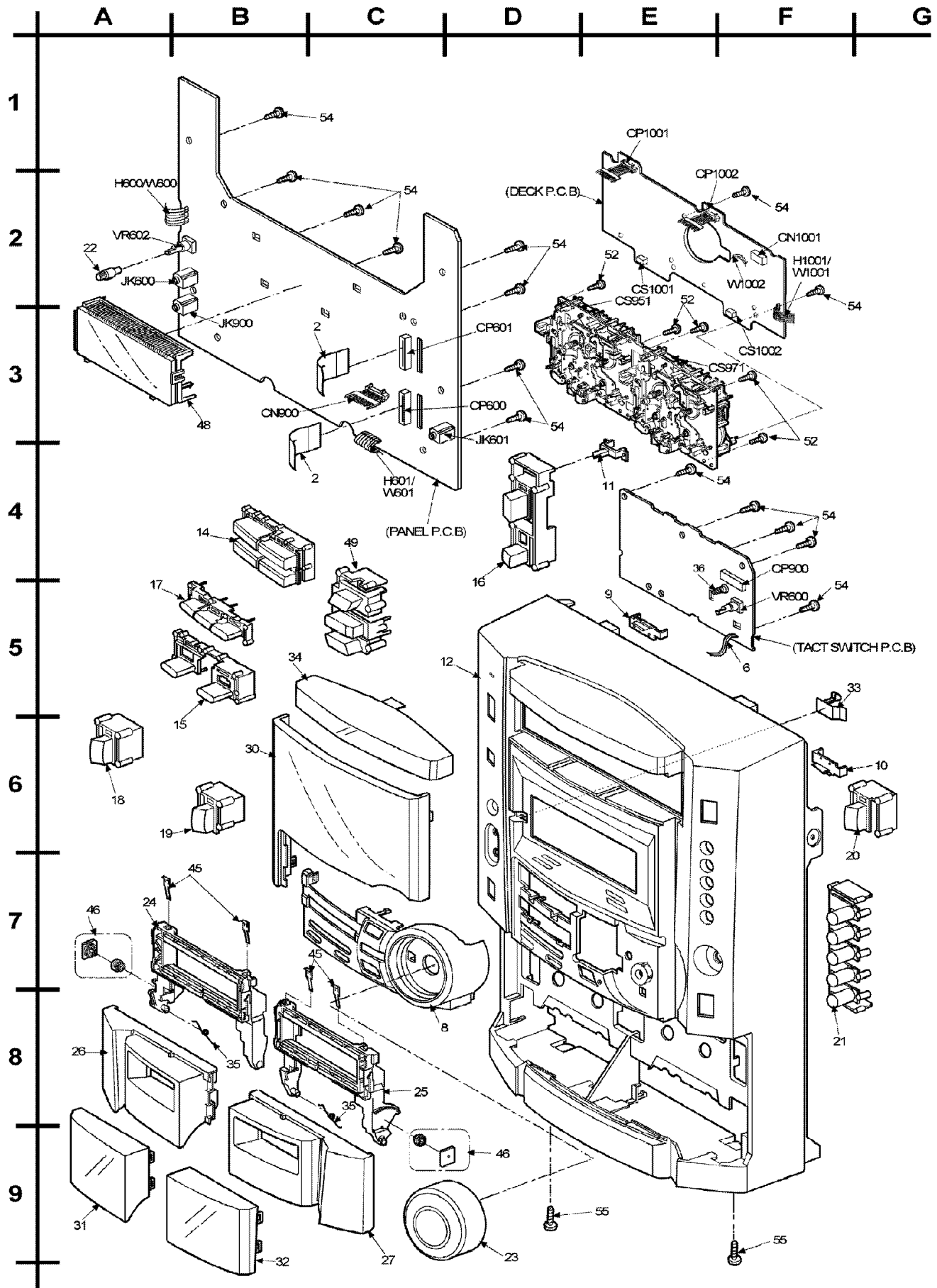
20.2.2. CD Loading Mechanism Parts List

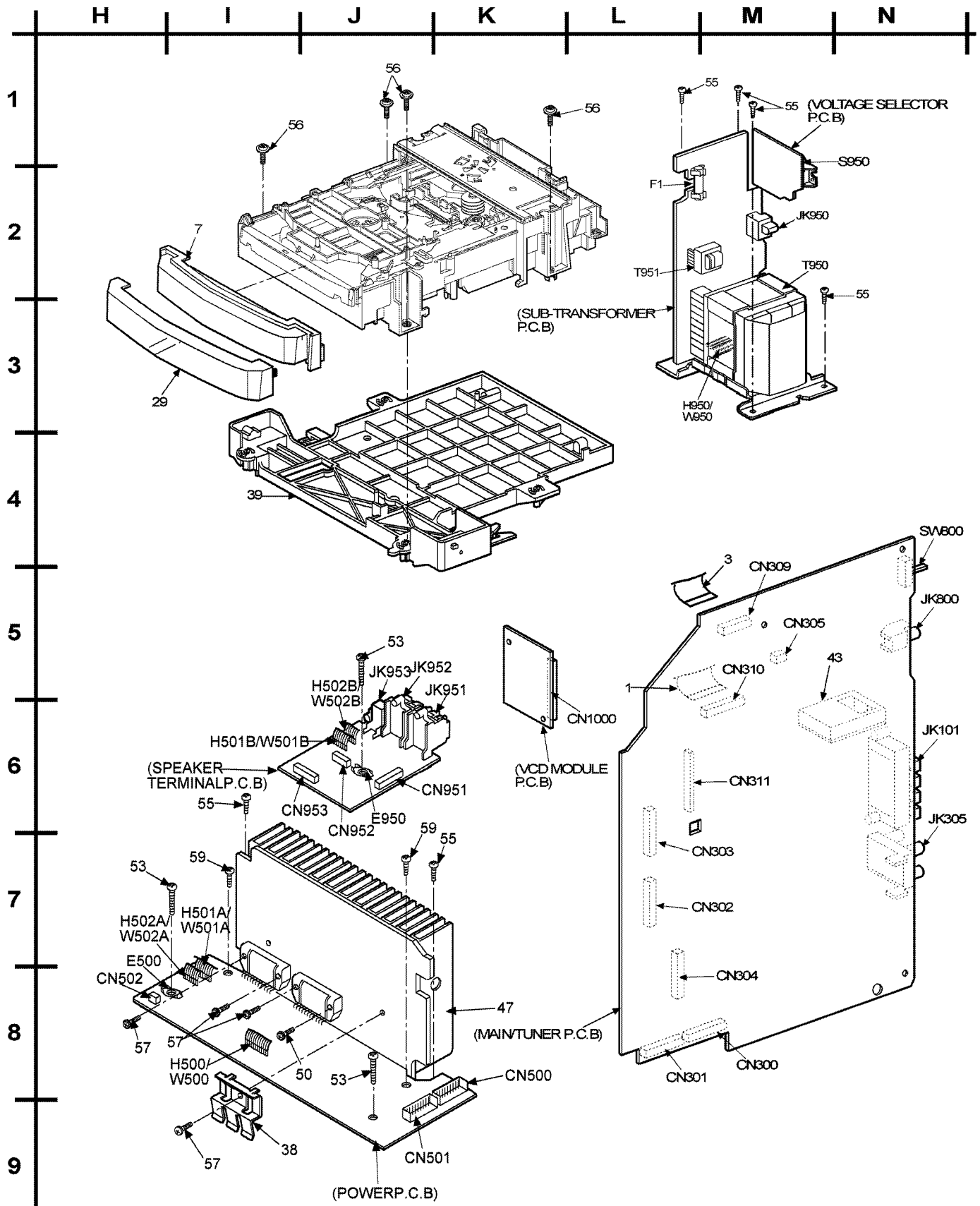
Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RML0517	TIMING LEVER	[M]
302	RML0516	PLUNGER LEVER	[M]
303	RMB0551	UPPER SPINDLE SPRING	[M]
304	RMQ0744	LOWER HOOK	[M]
305	RDV0056	BELT	[M]
306	RML0525	FRONT LOCK LEVER	[M]
307	RML0526	DISC LEVER	[M]
308	RDG0424	DRIVE GEAR	[M]
309	RDG0425	CHANGE GEAR	[M]
310	RDG0427	TRAVERSE CAM GEAR	[M]
311	RDG0428	TRAVERSE RELAY GEAR	[M]
312	RDG0426	UP/DOWN GEAR	[M]
313	RDG0429	PULLEY GEAR	[M]
314	RMB0549-1	CHANGE GEAR SPRING	[M]
315	RMQ0748	PITCH PLATE	[M]
316	RMB0553	PUSH SPRING	[M]
317	RML0530	ASSIST LEVER	[M]
318	RML0518	CONNECTION LEVER	[M]
319	RMM0201	SLIDE PLATE 1	[M]
320	RME0258	REAR LOCK SPRING	[M]
321	RML0521	REAR LOCK	[M]
322	RME0257	TRAY LOCK LEVER SPRI	[M]
323	RML0520	TRAY LOCK	[M]
324	RMM0202	SLIDE PLATE 2	[M]
325	XTB3+10J	SCREW	[M]
326	RMR0334	FIXED PLATE	[M]
327	RMR0624-W2	CLAMPER	[M]
328	RMB0561	ASSIST LEVER SPRING	[M]
329	RMR1121-K	MECHA COVER	[M]
330	RMA1110-2	TRAY ANGLE	[M]
331	RMR1122-H1	TRAY BASE	[M]
332	RMM0204	CARRIER	[M]
333	RMM0203	DRIVE RACK	[M]
334	RDG0432	SPEED UP GEAR	[M]
335	RML0524	SLIDE LOCK	[M]
336	RML0523	CARRIER LOCK	[M]
337	RME0260-1	SLIDE LOCK SPRING	[M]
338	RMR1123-H	TRAY	[M]
339	RXQ0595	MOTOR SUB ASS'Y	[M]
341	RSJ0003	SOLENOID ASS'Y	[M]
343	RMA1106	UPPER PLATE	[M]
344	RML0519	8CD LEVER	[M]
345	RFKNAAK27GCS	MECHA BASE ASS'Y	[M]
346	RML0522	TURNING STOPPER	[M]
347	RMQ0745	LOWER SPINDLE	[M]
348	RMQ0746	UP/DOWN BASE	[M]
349	RMB0550	LOWER SPINDLE SPRING	[M]
350	RMQ0747	UPPER HOOK	[M]
351	RME0263	CLICK SPRING	[M]
352	RMQ0743	SPINDLE SHAFT	[M]
353	RMB0552	CUSHION SPRING	[M]
354	RDG0430	RELAY GEAR 'A'	[M]
355	RDG0431	RELAY GEAR 'B'	[M]
356	RME0262	DISK LEVER SP.	[M]
357	RMA1105	SUPPORT PLATE	[M]
358	RAE0152Z-3	TRAVERSE	[M]
358-1	SHGD113-1	FLOATING CUSHION	[M]
358-2	SNSD38	TRV MOTOR ASSY SCREW	[M]
358-3	RAF0150A-4S	OPU ASS'Y	[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 ASS'Y	[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	RMR1124A-K	TRAVERSE CHASSIS	[M]
362	RMS0632	TRAVERSE PIN	[M]

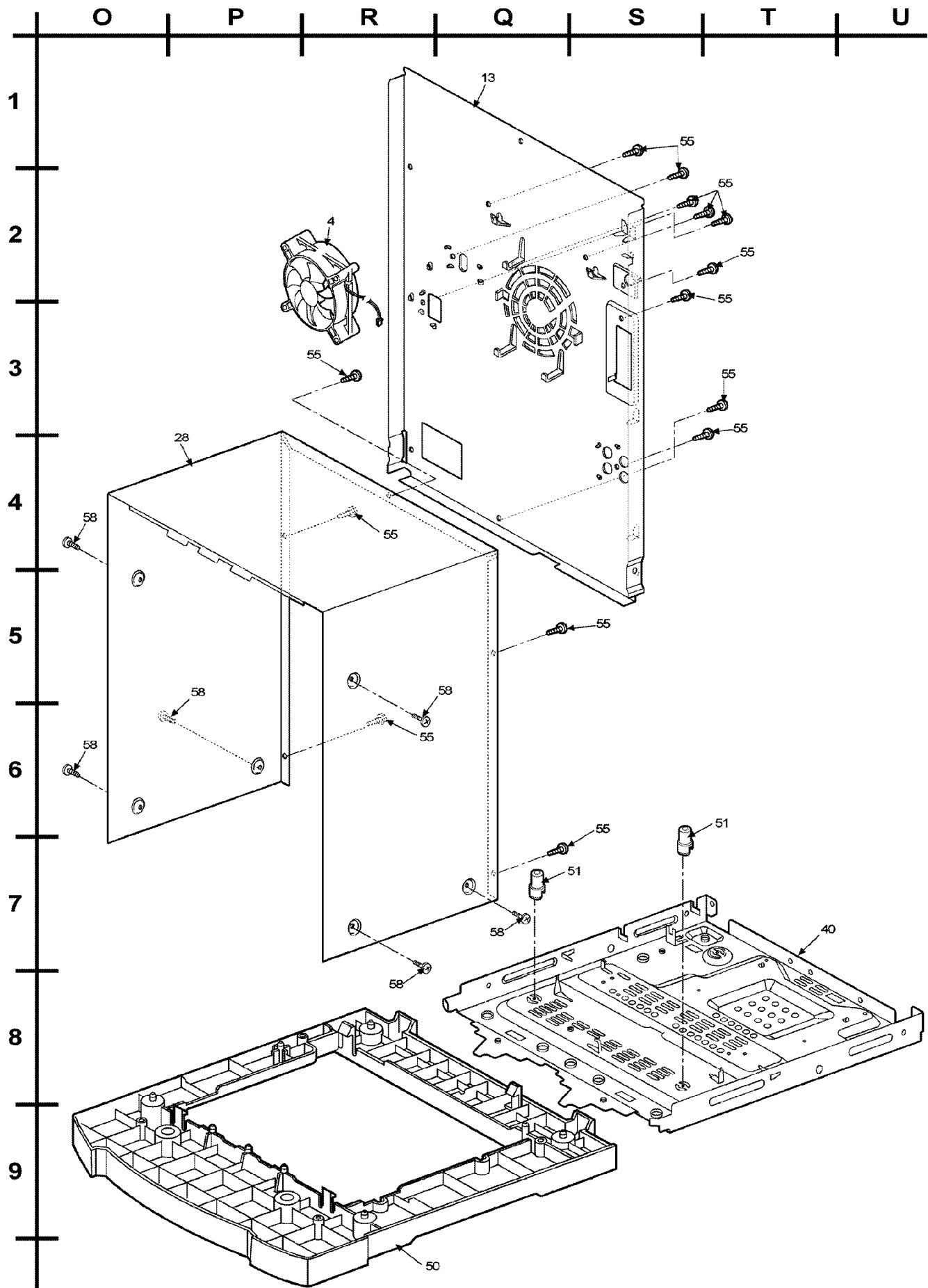
Ref. No.	Part No.	Part Name & Description	Remarks
363	XTN2+6G	SCREW	[M]
369	RMX0141	PUSH SPACER	[M]
370	RMQ0749	UPPER SPINDLE	[M]
371	RHM0001	MAGNET	[M]
372	RMX0140	DISC SPACER	[M]
373	RME0261	FRONT LOCK SPRING	[M]
374	RMQ0742	SPINDLE BASE	[M]

20.3. Cabinet

20.3.1. Cabinet Parts Location







20.3.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REEX0172	24P FFC WIRE	[M]
2	REEX0180	17P FFC WIRE	[M]
3	REEX0187	14P FFC WIRE	[M]
4	REM0072-3	FAN	[M]
6	REXX0315	2P FLAT WIRE	[M]
7	RGKX0119-K1	CD LID	[M]
8	RGKX0120A-S1	VOLUME ORNAMENT	[M]
9	RGLX0050-Q	LIGHT PIECE (L)	[M]
10	RGLX0051-Q	LIGHT PIECE (R)	[M]
11	RGLX0052-Q	POWER LIGHT CHIP	[M]
12	RGPX0070A-K1	FRONT PANEL	[M]
13	RGRX0022CA1A	REAR PANEL	[M]
14	RGUX0442-S1	FUNCTION BUTTON	[M]
15	RGUX0443-S	DECK BUTTON	[M]
16	RGUX0446-K	POWER BUTTON	[M]
17	RGUX0447-S	CONTROL BUTTON	[M]
18	RGUX0448-K	DECK EJECT BUTTON L	[M]
19	RGUX0449-K	DECK EJECT BUTTON R	[M]
20	RGUX0450-K	DISC EJECT BUTTON	[M]
21	RGUX0451-1S	DOSC BUTTON	[M]
22	RGWX0056-K	MIC KNOB	[M]
23	RGWX0064-S	VOLUME KNOB	[M]
24	RKFX0093-K	CASS. HOLDER (L)	[M]
25	RKFX0094-K	CASS. HOLDER (R)	[M]
26	RKFX0098-K	CASS LID (L)	[M]
27	RKFX0099-K	CASS LID (R)	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
28	RKMX0066B-K2	TOP CABINET	[M]
29	RKWX0174-H	CD LID ORNAMENT	[M]
30	RKWX0176-H1	FL ORNAMENT	[M]
31	RKWX0177-H	CASS WINDOW (L)	[M]
32	RKWX0178-H	CASS WINDOW (R)	[M]
33	RKWX0183-H	REMOTE SENSOR WINDOW	[M]
34	RKWX0186B-H	TOP ORNAMENT	[M]
35	RMBX0018	CASS. OPEN SPRING	[M]
38	RMCX0021	TRANSISTOR CLIP	[M]
39	RXQX0009A-J	CD CHASSIS UNIT	[M]
40	RMKX0062A	BOTTOM CHASSIS	[M]
43	RSC0027-2	TUNER PACK	[M]
45	RUS757ZAA	CASSETTE HALF SPRING	[M]
46	RXGX0002	DAMPER GEAR	[M]
47	RXXX0029A	HEAT SINK UNIT	[M]
48	RMNX0062	FL HOLDER	[M]
49	RYQX0066B-K1	SS EQ BTN UNIT	[M]
50	RYQX0068-K	BASE STAND UNIT	[M]
51	SHE187-5J	PCB SUPPORT	[M]
52	XTB3+10JFZ	SCREW	[M]
53	XTB3+20J	SCREW	[M]
54	XTBS26+10J	SCREW	[M]
55	XTBS3+8JFZ1	SCREW	[M]
56	XTW3+12T	SCREW	[M]
57	XTW3+15T	SCREW	[M]
58	RHD30004-K	SIDE SCREW	[M]
59	XTB3+10J	SCREW	[M]

20.4. Electrical Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REPX0295A	CD SERVO P.C.B. (SIDE: A)	[M] (RTL)
	REPX0295A	CD SERVO P.C.B. (SIDE: B)	[M] (RTL)
	RD-DVK029-SY	VIDEO MODULE P.C.B.	[M] (RTL)
	REPX0309C	MAIN / TUNER P.C.B.	[M] (RTL)
	REPX0308C	PANEL P.C.B.	[M] (RTL)
	REPX0208B	DECK P.C.B.	[M] (RTL)
	REPX0308C	TACT SWITCH P.C.B.	[M] (RTL)
	REPX0272R	SPEAKER TERMINAL P.C.B.	[M] (RTL)
	REPX0272R	POWER P.C.B.	[M] (RTL)
	REPX0314A	SUB-TRANSFORMER P.C.B.	[M] (RTL)
	REPX0314A	VOLTAGE SELECTOR P.C.B.	[M] (RTL)
	REPX0108	MECHANISM (DECK 1) P.C.B.	[M] (RTL)
	REPX0108A	MECHANISM (DECK 2) 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)
	REP1999B	TUNER PACK P.C.B.	[M] (RTL)
		INTEGRATED CIRCUITS	
IC1	C0GAM0000005	IC DRIVE	[M]
IC101	LA1833NMNTLM	IC IF & MPX	[M]
IC102	LC72131MDTRM	IC PLL	[M]
IC300	C1BB00000731	IC ASP	[M]
IC301	BA3838FE2	IC VOCAL FOLDER	[M]
IC302	C0AABB000117	IC OP-AMP (HP AMP)	[M]
IC303	KIA4558FEL	IC DUAL OP-AMP	[M]
IC307	KIA4558FEL	IC DUAL OP-AMP	[M]
IC500	RSN35H2-P	IC HIC	[M] △
IC501	RSN35H2-P	IC HIC	[M] △
IC600	C2BBGF000362	IC MICRO-P	[M]
IC601	C1BB00000574	IC I/O EXPANDER	[M]
IC701	AN8885SBE1	IC SERVO AMP	[M]
IC702	MN662791AA	IC SERVO PROCESSOR	[M]
IC703	AN8739SBTE2	IC 4CH DRIVER	[M]
IC704	C3ABMB000027	IC 16M DRAM	[M]
IC705	C0CBAAC00112	IC 1.8V REGULATOR	[M] △
IC800	C2BBGF000366	IC MICRO PROCESSOR	[M]
IC803	UPC29M33HF	IC 3.3V REGULATOR	[M] △
IC804	SI8050JLFI18	IC SWITCHING REGULAR	[M] △
IC806	C0JBAZ000524	IC INVERTER	[M]
IC900	C1BB00000716	IC ECHO	[M]
IC951	CNB13030R2AU	IC PHOTO INTERRUPTER	[M]
IC971	CNB13030R2AU	IC PHOTO INTERRUPTER	[M]
IC1000	MN89103M2	IC MPEG LSI	[M]
IC1001	AN7348S-E1	IC TAPE PB	[M]
IC1001	C3CBLC000031	IC 8M MASK ROM	[M]
IC1002	C1BB00000574	IC I/O EXPANDER	[M]
IC1002	C3ABKG000089	IC 4M DRAM (5V)	[M]
IC1003	C0JBAZ000529	IC INVERTER	[M]
IC1004	C1AA00000612	IC SW	[M]
IC1004	TC7W14FUTE1L	IC INVERTER	[M]
		TRANSISTORS	
Q1	2SK544F-AC	TRANSISTOR	[M]
Q1	B1GACFGG00004	TRANSISTOR	[M]
Q2	2SC2786MTA	TRANSISTOR	[M]
Q3	2SC2787FL1TA	TRANSISTOR	[M]
Q4	2SC2787FL1TA	TRANSISTOR	[M]
Q101	2SC2058SPTA	TRANSISTOR	[M]
Q106	KRA102MTA	TRANSISTOR	[M] △
Q201	KTC3875GRTA	TRANSISTOR	[M]
Q202	KTC3875GRTA	TRANSISTOR	[M]
Q203	KTD1304TA	TRANSISTOR	[M]
Q204	KTC3875GRTA	TRANSISTOR	[M]
Q205	KTC3875GRTA	TRANSISTOR	[M]
Q206	KTD1304TA	TRANSISTOR	[M]
Q207	KTD1304TA	TRANSISTOR	[M]
Q208	KTD1304TA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q301	KRC102STA	TRANSISTOR	[M]
Q302	KTAL2710YTA	TRANSISTOR	[M] △
Q307	KRA102STA	TRANSISTOR	[M]
Q308	KTC3875GRTA	TRANSISTOR	[M]
Q309	KRA102STA	TRANSISTOR	[M]
Q320	B1AAKD000009	TRANSISTOR	[M] △
Q370	B1ADCF000001	TRANSISTOR	[M]
Q371	2SD0592ARA	TRANSISTOR	[M]
Q372	B1ADCF000001	TRANSISTOR	[M] △
Q373	2SD0592ARA	TRANSISTOR	[M]
Q374	B1ADCF000001	TRANSISTOR	[M]
Q375	B1ABCF000011	TRANSISTOR	[M]
Q401	KTC3875GRTA	TRANSISTOR	[M]
Q402	KTC3875GRTA	TRANSISTOR	[M]
Q403	KTD1304TA	TRANSISTOR	[M]
Q404	KTC3875GRTA	TRANSISTOR	[M]
Q405	KTC3875GRTA	TRANSISTOR	[M]
Q406	KTD1304TA	TRANSISTOR	[M]
Q407	KTD1304TA	TRANSISTOR	[M]
Q408	KTD1304TA	TRANSISTOR	[M]
Q500	KTC2026	TRANSISTOR	[M] △
Q501	KTAL1046	TRANSISTOR	[M]
Q502	KTC2026	TRANSISTOR	[M] △
Q503	KTAL1046	TRANSISTOR	[M]
Q504	KRA110MTA	TRANSISTOR	[M]
Q505	KTC3199GRTA	TRANSISTOR	[M] △
Q506	B1AAKD000009	TRANSISTOR	[M] △
Q507	KRA110MTA	TRANSISTOR	[M]
Q508	KTAL2710YTA	TRANSISTOR	[M]
Q509	KTC3199GRTA	TRANSISTOR	[M]
Q510	KTC3199GRTA	TRANSISTOR	[M]
Q511	KTC3199GRTA	TRANSISTOR	[M]
Q512	B1AAGC000007	TRANSISTOR	[M]
Q513	KTAL267GRTA	TRANSISTOR	[M]
Q600	KRC103MTA	TRANSISTOR	[M]
Q601	KRC102MTA	TRANSISTOR	[M]
Q602	KTAL267GRTA	TRANSISTOR	[M]
Q603	KTC3199GRTA	TRANSISTOR	[M]
Q604	KTC3199GRTA	TRANSISTOR	[M]
Q605	KRC102MTA	TRANSISTOR	[M]
Q606	KTC3199GRTA	TRANSISTOR	[M]
Q607	2SC1740SSTA	TRANSISTOR	[M]
Q610	KTAL267GRTA	TRANSISTOR	[M] △
Q612	KTC3199GRTA	TRANSISTOR	[M]
Q613	KRC102MTA	TRANSISTOR	[M]
Q614	KTC3199GRTA	TRANSISTOR	[M]
Q701	B1ADCF000001	TRANSISTOR	[M]
Q800	KRC102STA	TRANSISTOR	[M]
Q801	2SC2712GRT5T	TRANSISTOR	[M]
Q802	2SC2712GRT5T	TRANSISTOR	[M]
Q803	2SC2712GRT5T	TRANSISTOR	[M]
Q804	KRA102STA	TRANSISTOR	[M]
Q805	2SC3326BT5M	TRANSISTOR	[M]
Q807	KRC101STA	TRANSISTOR	[M]
Q808	KRC101STA	TRANSISTOR	[M]
Q810	KTAL2710YTA	TRANSISTOR	[M] △
Q811	KRA102STA	TRANSISTOR	[M]
Q812	KRC101STA	TRANSISTOR	[M]
Q813	KRC103STA	TRANSISTOR	[M]
Q900	2SC1740SSTA	TRANSISTOR	[M]
Q950	KTC3205YTA	TRANSISTOR	[M] △
Q951	2SB621ARSTA	TRANSISTOR	[M] △
Q953	B1AAGC000007	TRANSISTOR	[M]
Q954	B1AAGC000007	TRANSISTOR	[M]
Q1001	KTC3199GRTA	TRANSISTOR	[M]
Q1003	B1AAGC000007	TRANSISTOR	[M]
Q1004	B1AAGC000007	TRANSISTOR	[M]
Q1005	B1AAGC000007	TRANSISTOR	[M]
Q1006	KRC114STA	TRANSISTOR	[M]
Q1007	KTC3875GRTA	TRANSISTOR	[M]
Q1008	KTC3875GRTA	TRANSISTOR	[M]
Q1009	KTC3875GRTA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q1010	KTC3875GRTA	TRANSISTOR	[M]
Q1011	KTC3875GRTA	TRANSISTOR	[M]
Q1012	KTD1304TA	TRANSISTOR	[M]
Q1013	KTD1304TA	TRANSISTOR	[M]
Q1014	B1ABCF000011	TRANSISTOR	[M]
Q1015	B1ABCF000011	TRANSISTOR	[M]
Q1016	KRA102STA	TRANSISTOR	[M]
Q1017	KTD1146YTA	TRANSISTOR	[M]
Q1018	KTA12710YTA	TRANSISTOR	[M]
Q1019	KTA12710YTA	TRANSISTOR	[M]
Q1020	KTD1304TA	TRANSISTOR	[M]
Q1021	KTD1304TA	TRANSISTOR	[M]
Q1022	KRA102STA	TRANSISTOR	[M]
Q1023	KRA102STA	TRANSISTOR	[M]
		DIODES	
D1	SVC211SPA-AL	DIODE	[M]
D2	B0BA4R600003	DIODE	[M]
D2	SVC211SPA-AL	DIODE	[M]
D3	SVC211SPA-AL	DIODE	[M]
D101	B0BC5R000009	DIODE	[M]
D202	MA2J72800L	DIODE	[M]
D204	B0ADCC000002	DIODE	[M]
D205	MA2J72800L	DIODE	[M]
D301	B0ACCK000005	DIODE	[M]
D302	B0ADCC000002	DIODE	[M]
D303	B0ADCC000002	DIODE	[M]
D304	B0ADCC000002	DIODE	[M]
D308	RL1N4003S-P	DIODE	[M]
D311	B0BC5R000009	DIODE	[M]
D312	RL1N4003S-P	DIODE	[M]
D317	B0BC7R500001	DIODE	[M]
D370	B0ACCK000005	DIODE	[M]
D371	UDZSTE1710B	DIODE	[M]
D374	RL1N4003S-P	DIODE	[M]
D375	B0ACCK000005	DIODE	[M]
D376	B0ACCK000005	DIODE	[M]
D377	B0ACCK000005	DIODE	[M]
D402	MA2J72800L	DIODE	[M]
D404	B0ADCC000002	DIODE	[M]
D405	MA2J72800L	DIODE	[M]
D500	B0BA01400041	DIODE	[M]
D502	B0BA9R600002	DIODE	[M]
D503	B0BA9R600002	DIODE	[M]
D504	B0AACK000004	DIODE	[M]
D505	B0AACK000004	DIODE	[M]
D506	B0AACK000004	DIODE	[M]
D507	B0BA5R600016	DIODE	[M]
D508	B0BA01500003	DIODE	[M]
D509	RL1N4003N02	DIODE	[M]
D510	RL1N4003N02	DIODE	[M]
D511	RL1N4003N02	DIODE	[M]
D512	B0AACK000004	DIODE	[M]
D513	RL1N4003N02	DIODE	[M]
D602	B0AACK000004	DIODE	[M]
D604	B0AACK000004	DIODE	[M]
D607	B0AACK000004	DIODE	[M]
D608	B0AACK000004	DIODE	[M]
D611	1SS380TE-17	DIODE	[M]
D612	1SS380TE-17	DIODE	[M]
D613	MA2C72300F	DIODE	[M]
D614	MA2C700A0F	DIODE	[M]
D615	MA2C700A0F	DIODE	[M]
D616	B0BA5R600016	DIODE	[M]
D617	B0AACK000004	DIODE	[M]
D620	SLI325URCT31	DIODE	[M]
D625	B0AACK000004	DIODE	[M]
D626	B0AACK000004	DIODE	[M]
D800	RL1N4003S-P	DIODE	[M]
D801	EK14LFH2K	DIODE	[M]
D802	B0ACCK000005	DIODE	[M]
D803	B0ACCK000005	DIODE	[M]
D902	SLR325YCT31	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D903	SLR325YCT31	DIODE	[M]
D906	B0BA5R000004	DIODE	[M]
D950	B0EAKM000085	DIODE	[M]
D951	B0EAKM000085	DIODE	[M]
D952	B0BA6R600008	DIODE	[M]
D953	B0EAKM000085	DIODE	[M]
D954	B0EAKM000085	DIODE	[M]
D955	RL1N4003N02	DIODE	[M]
D956	RL1N4003N02	DIODE	[M]
D957	B0BA03100002	DIODE	[M]
D958	RL1N4003N02	DIODE	[M]
D959	KBP152G4R5	DIODE	[M] △
D960	B0FBAM000009	DIODE	[M] △
D961	B0AACK000004	DIODE	[M]
D962	B0EAKM000085	DIODE	[M]
D951	MA2C16500E	DIODE	[M]
D971	MA2C16500E	DIODE	[M]
D1003	B0ACCK000005	DIODE	[M]
D1004	B0BC3R700004	DIODE	[M]
		VARIABLE RESISTORS	
VR600	EVEKE2F3024M	VOLUME JOG	[M]
VR602	EVUF2AF15B14	MIC VOLUME	[M]
		SWITCHES	
S600	EVQ21405R	SW POWER	[M]
S601	EVQ21405R	SW DISPLAY	[M]
S602	EVQ21405R	SW CD OPEN/CLOSE	[M]
S603	EVQ21405R	SW DISC 1	[M]
S604	EVQ21405R	SW DISC 2	[M]
S605	EVQ21405R	SW DISC 3	[M]
S606	EVQ21405R	SW DISC 4	[M]
S607	EVQ21405R	SW DISC 5	[M]
S610	EVQ21405R	SW DECK 2	[M]
S611	EVQ21405R	SW DECK 1	[M]
S701	RSH1A053-U	SW RESET	[M]
S910	EVQ21405R	SW TAPE	[M]
S911	EVQ21405R	SW CD PLAY	[M]
S912	EVQ21405R	SW AUX	[M]
S913	EVQ21405R	SW TUNER	[M]
S914	EVQ21405R	SW SS. EQ	[M]
S920	EVQ21405R	SW FF	[M]
S921	EVQ21405R	SW STOP/DEMO	[M]
S922	EVQ21405R	SW REW	[M]
S923	EVQ21405R	SW DECK 1/2	[M]
S924	EVQ21405R	SW REC	[M]
S925	EVQ21405R	SW PRESET EQ	[M]
S950	K0AFZA000005	SW VOLTAGE SELECTOR	[M] △
S951	RSH1A018-3U	SW MODE	[M]
S952	RSH1A019-2U	SW HALF	[M]
S953	RSH1A019-2U	SW CR02	[M]
S971	RSH1A018-3U	SW MODE	[M]
S972	RSH1A019-2U	SW HALF	[M]
S973	RSH1A019-2U	SW CR02	[M]
S974	RSH1A019-2U	SW RECINH_R	[M]
S975	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	RSH1A912A-A	SW CD	[M]
SW5	K0L1BB000005	SW LOCK	[M]
SW800	K0D112B00126	SWITCH	[M]
		CONNECTORS	
CN1	K1MN14A00049	14P FFC CONNECTOR	[M]
CN300	RJU057G12	12P P2 MQ CONNECTOR	[M]
CN301	RJU057G12	12P P2 MQ CONNECTOR	[M]
CN302	RJS1A9417	P1.25 FFC CONNECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
CN303	RJS1A9417	P1.25 FFC CONNECTOR	[M]
CN304	RJS1A5210	10P WIRE HOLDER	[M]
CN305	K1KA02A00008	CONNECTOR	[M]
CN309	RJS1A9414-1	14P CONNECTOR	[M]
CN310	K1MN24A00040	24P FFC CONNECTOR	[M]
CN311	RJU107K30M	30P CONNECTOR	[M]
CN500	K1KA12A00184	12P P2 MQ CONNECTOR	[M]
CN501	K1KA12A00184	12P P2 MQ CONNECTOR	[M]
CN502	K1KA02A00010	2P CONNECTOR	[M]
CN701	RJS2A8616	16P FFC CONNECTOR	[M]
CN702	K1MN24B00090	24P FFC CONNECTOR	[M]
CN900	RJT066H10B	10P BTB CONNECTOR	[M]
CN951	RJP13G4YA	13P CONNECTOR	[M]
CN952	K1KA07A00058	7P CONNECTOR	[M]
CN953	K1KA07A00060	7P PLUG IN CONNECTOR	[M]
CN1000	RJT107K30T	30P CONNECTOR	[M]
CN1001	K1MP08B00001	8P WIRE TRAP	[M]
CP600	RJS1A9417	CONNECTOR	[M]
CP601	RJS1A9417	P1.25 FFC CONNECTOR	[M]
CP900	RJU066H10M	10 B-B	
CP1001	RJT071K09A	9P B/B CONNECTOR	[M]
CP1002	RJT071K09A	9P B/B CONNECTOR	[M]
CS951	RJU071H09M1	CONNECTOR	[M]
CS971	RJU071H09M1	CONNECTOR	[M]
CS1001	RJS1A6805-J	5P CONNECTOR SOCKET	[M]
CS1002	RJS1A6805-J	5P CONNECTOR SOCKET	[M]
		COILS & TRANSFORMERS	
L1	RLQZP1R2KT-Y	COIL	[M]
L2	RLQZPR47KT-Y	COIL	[M]
L600	RLQB3R3KT-1Y	COIL	[M]
L602	RLQB101KT-1Y	COIL	[M]
L604	G0C100JA0030	INDUCTOR	[M]
L605	G0C3R3JA0030	COIL	[M]
L606	RLQZP101KT-Y	AXIAL COIL	[M]
L607	RLQZP101KT-Y	AXIAL COIL	[M]
L608	RLQZP100KT-Y	AXIAL COIL	[M]
L701	RLBV102V-Y	CHIP INDUCTOR	[M]
L702	RLBV102V-Y	CHIP INDUCTOR	[M]
L703	RLBV102V-Y	CHIP INDUCTOR	[M]
L704	RLBV102V-Y	CHIP INDUCTOR	[M]
L801	G0ZZ00001930	COIL	[M]
L802	RLL500050T-Y	RF CHOKE COIL	[M]
L803	RLL500050T-Y	RF CHOKE COIL	[M]
L804	RLL500050T-Y	RF CHOKE COIL	[M]
L805	RLL500050T-Y	RF CHOKE COIL	[M]
L806	RLL500050T-Y	RF CHOKE COIL	[M]
L950	RLQZ371	LINE FILTER	[M] ⚠
L1000	G1C1R8KA0009	CHIP INDUCTOR	[M]
L1001	G0C470JA0030	RF CHOKE COIL	[M]
L1002	7L1A62N	BIAS OSC COIL	[M]
L1002	G1C2R7K00005	CHIP INDUCTOR	[M]
T950	ETP76VST618A	TRANSFORMER	[M] ⚠
T951	G4C2AAJ00001	BACK UP TRANSFORMER	[M] ⚠
		COMPONENT COMBINATION	
Z101	RLA2Z007-T	COIL	[M]
Z102	G2BAE0000003	AM IF BLOCK	[M]
Z600	B3RAB0000012	REMOTE CONTROL SENSO	[M]
Z900	RMBX0022	GROUNDING SPRING	[M]
Z950	ERZV10V511CS	ZENER	[M] ⚠
Z971	RGSD12A1445T	RADA RESISTOR	[M]
Z1002	RGSD12A1445T	RADA RESISTOR	[M]
		CERAMIC FILTERS	
CF201	RLFFETWND01M	FM CF	[M]
CF202	RLFFETWND01M	FM CF	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		RELAY	
RL950	RSY0040M-0	PRIMARY RELAY	[M] △
		OSCILLATORS	
X102	RLFDF22DD	DISCRIMINATOR	[M]
X103	RSXC7M20S05T	CRYSTAL OSCILLATOR	[M]
X600	H0A327200073	CRYSTAL OSCILLATOR	[M]
X601	RSXZ4M19B01T	CRYSTAL OSCILLATOR	[M]
X701	RSXB16M9J02T	CRYSTAL OSCILLATOR	[M]
X800	H2B600400003	CERAMIC OCCILLATOR	[M]
X1000	H0J270500013	27 MHZ CRYSTAL	[M]
		DISPLAY TUBE	
FL600	A2ED00000046	FL DUSPLAY	[M]
		FUSES	
F1	K5D252BK0007	2.5A CURRENT FUSE	[M] △
F2	K5D122BK0004	FUSE	[M] △
		FUSE HOLDERS	
FC1	EYF52BC	FUSE HOLDER	[M]
FC2	EYF52BC	FUSE HOLDER	[M]
FC3	EYF52BC	FUSE HOLDER	[M]
FC4	EYF52BC	FUSE HOLDER	[M]
		FUSE PROTECTOR	
FP950	K5G402AA0002	FUSE PROTECTOR	[M] △
FP951	K5G102AA0002	FUSE PROTECTOR	[M] △
		HOLDERS	
H500	K1YF07000003	7P WIRE HOLDER	[M]
H501A	RJS1A5505	5P WIRE HOLDER	[M]
H501B	RJS1A5505	5P WIRE HOLDER	[M]
H502A	RJS1A5505	5P WIRE HOLDER	[M]
H502B	RJS1A5505	5P WIRE HOLDER	[M]
H600	RMR0316	7P CABLE HOLDER	[M]
H601	RMR0317	8P CABLE HOLDER	[M]
H900	RMR0311	CONNECTOR	[M]
H950	K1YF13000001	13P WIRE HOLDER	[M]
H1001	RMR0319	10P CABLE HOLDER	[M]
		JACKS	
JK101	RJH5414-1	JK ANTENNA	[M]
JK305	RJH2405L	JK 4P RCA	[M]
JK600	RJJ37TK07-X	JK HP/MIC	[M]
JK601	RJJ37TK07-X	JK HP/MIC	[M]
JK800	RJH2110	JK VIDEO	[M]
JK900	RJJ37TK07-X	JK HP/MIC	[M]
JK950	K2AA2B000004	JK AC INLET	[M] △
JK951	RJR0054P-J	JK TERMINAL SPEAKER	[M]
JK952	RJR0054N-J	JK TERMINAL SPEAKER	[M]
JK953	K2HA204B0121	JK SURROUND	[M]
		EARTH TERMINAL	
E500	SNE1004-2	EARTH TERMINAL	[M]
E950	SNE1004-2	EARTH TERMINAL	[M]
		WIRES	
W1	REZ1023-1	4P WIRE	[M]
W2	REE0972	WIRE (VIOLET)	[M]
W2	REZ1024	3P WIRE	[M]
W3	REE0782	WIRE (GREY)	[M]
W5	REE0501	WIRE UNIT	[M]
W6	REE0157	WIRE (BLUE)	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
W7	REE0973	WIRE (BROWN)	[M]
W500	REXX0275	7P FLAT WIRE	[M]
W501B	RWJ1805155XX	5P FLAT WIRE	[M]
W502B	RWJ1805175XX	5P FLAT WIRE	[M]
W600	REXX0273	7P FLAT WIRE	[M]
W601	RWJ0208150RX	8P PANEL TO DECK	[M]
W950	REXX0274	13P FLAT WIRE	[M]
W1001	RWJ6510110XX	10P WIRE	[M]
W1002	RWJ0102050CK	MAIN-MECHA MOTOR WIR	[M]
		JUMPER PLATE	
PL1	RJR0199	JUMPER PLATE	[M]
		RESISTORS	
R1	ERDS2TJ102T	1K 1/4W	[M]
R1	ERDS2TJ104T	100K 1/4W	[M]
R2	ERDS2TJ104T	100K 1/4W	[M]
R3	ERDS2TJ221T	220 1/4W	[M]
R4	ERDS2TJ104T	100K 1/4W	[M]
R5	ERDS2TJ564T	560K 1/4W	[M]
R6	ERDS2TJ391T	390 1/4W	[M]
R7	ERDS2TJ272T	2.7K 1/4W	[M]
R8	ERDS2TJ684T	680K 1/4W	[M]
R9	ERDS2TJ391T	390 1/4W	[M]
R10	ERDS2TJ391T	390 1/4W	[M]
R11	ERDS2TJ684T	680K 1/4W	[M]
R101	ERJ3GEY0R00V	0 1/16W	[M]
R102	ERJ3GEYJ472V	4.7K 1/16W	[M]
R103	D0GB271JA002	270 1/16W	[M]
R104	ERJ3GEYJ102V	1K 1/16W	[M]
R105	ERJ3GEYJ471V	470 1/16W	[M]
R106	D0GB474JA002	470K 1/16W	[M]
R107	ERJ3GEYJ331V	330 1/16W	[M]
R110	ERJ3GEYJ102V	1K 1/16W	[M]
R111	ERJ3GEYJ391V	390 1/16W	[M]
R112	ERJ3GEYJ104V	100K 1/16W	[M]
R113	ERJ3GEYJ103V	10K 1/16W	[M]
R114	D0GB562JA002	5.6K 1/16W	[M]
R115	ERJ3GEYJ561V	560 1/16W	[M]
R116	ERJ3GEYJ102V	1K 1/16W	[M]
R117	ERJ3GEYJ473V	47K 1/16W	[M]
R118	D0GB332JA002	3.3K 1/16W	[M]
R119	D0GB332JA002	3.3K 1/16W	[M]
R120	ERJ3GEYJ473V	47K 1/16W	[M]
R121	ERJ3GEYJ223V	22K 1/16W	[M]
R122	D0GB272JA002	2.7K 1/16W	[M]
R123	D0GB683JA002	68K 1/16W	[M]
R124	ERJ3GEYJ330V	33 1/16W	[M]
R125	ERJ3GEYJ471V	470 1/16W	[M]
R126	ERJ3GEYJ102V	1K 1/16W	[M]
R127	ERJ3GEYJ471V	470 1/16W	[M]
R128	D0GB820JA019	82 1/16W	[M]
R129	D0GB273JA002	27K 1/16W	[M]
R130	ERJ3GEYJ103V	10K 1/16W	[M]
R131	D0GB121JA002	120 1/16W	[M]
R132	ERJ3GEYJ103V	10K 1/16W	[M]
R133	ERJ3GEYJ102V	1K 1/16W	[M]
R134	ERJ3GEYJ471V	470 1/16W	[M]
R135	ERJ3GEYJ102V	1K 1/16W	[M]
R136	ERJ3GEYJ102V	1K 1/16W	[M]
R137	ERJ3GEYJ102V	1K 1/16W	[M]
R138	D0GB332JA002	3.3K 1/16W	[M]
R141	ERJ3GEYJ682V	6.8K 1/16W	[M]
R142	ERJ3GEYJ682V	6.8K 1/16W	[M]
R143	ERJ3GEYJ223V	22K 1/16W	[M]
R144	D0GB121JA002	120 1/16W	[M]
R145	ERJ3GEYJ104V	100K 1/16W	[M]
R146	ERJ3GEYJ104V	100K 1/16W	[M]
R151	D0GB820JA019	82 1/16W	[M]
R152	ERJ3GEY0R00V	0 1/16W	[M]
R201	ERJ3GEYJ103V	10K 1/16W	[M]
R202	D0GB332JA002	3.3K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R203	ERJ3GEYJ102V	1K 1/16W	[M]
R204	ERJ3GEYJ473V	47K 1/16W	[M]
R205	ERJ3GEYJ102V	1K 1/16W	[M]
R206	ERJ3GEYJ473V	47K 1/16W	[M]
R207	ERJ3GEYJ182V	1.8K 1/16W	[M]
R208	D0GB562JA002	5.6K 1/16W	[M]
R209	ERJ3GEYJ104V	100K 1/16W	[M]
R210	ERJ3GEYJ473V	47K 1/16W	[M]
R211	ERJ3GEYJ223V	22K 1/16W	[M]
R212	D0GB334JA002	330K 1/16W	[M]
R213	ERJ3GEYJ823V	82K 1/16W	[M]
R214	ERJ3GEYJ222V	2.2K 1/16W	[M]
R215	D0GB101JA002	100 1/16W	[M]
R216	ERJ3GEY0R00V	0 1/16W	[M]
R217	ERJ3GEYJ104V	100K 1/16W	[M]
R218	ERJ3GEYJ102V	1K 1/16W	[M]
R219	D0GB152JA002	1.5K 1/16W	[M]
R220	ERJ3GEYJ472V	4.7K 1/16W	[M]
R221	D0GB152JA002	1.5K 1/16W	[M]
R222	ERJ3GEYJ472V	4.7K 1/16W	[M]
R223	ERJ3GEYJ473V	47K 1/16W	[M]
R224	D0GB302JA008	3K 1/16W	[M]
R225	D0GB563JA002	56K 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	ERJ3GEYJ153V	15K 1/16W	[M]
R231	ERJ3GEYJ222V	2.2K 1/16W	[M]
R232	ERJ3GEYJ104V	100K 1/16W	[M]
R233	ERJ3GEYJ102V	1K 1/16W	[M]
R234	ERJ3GEYJ330V	33 1/16W	[M]
R235	ERJ3GEYJ330V	33 1/16W	[M]
R236	ERJ3GEYJ330V	33 1/16W	[M]
R237	ERJ3GEYJ330V	33 1/16W	[M]
R238	ERJ3GEYJ472V	4.7K 1/16W	[M]
R240	ERJ3GEYJ123V	12K 1/16W	[M]
R241	ERJ3GEYJ103V	10K 1/16W	[M]
R242	ERJ3GEYJ822V	8.2K 1/16W	[M]
R243	D0GB333JA002	33K 1/16W	[M]
R245	ERJ3GEYJ103V	10K 1/16W	[M]
R247	ERJ3GEYJ221V	220 1/16W	[M]
R248	D0GB274JA002	270K 1/16W	[M]
R249	ERJ3GEYJ102V	1K 1/16W	[M]
R250	D0GB332JA002	3.3K 1/16W	[M]
R252	ERJ3GEYJ473V	47K 1/16W	[M]
R253	ERJ3GEYJ473V	47K 1/16W	[M]
R254	ERJ3GEYJ102V	1K 1/16W	[M]
R255	ERJ3GEYJ104V	100K 1/16W	[M]
R256	ERJ3GEYJ102V	1K 1/16W	[M]
R257	ERJ3GEYJ472V	4.7K 1/16W	[M]
R258	D0GB273JA002	27K 1/16W	[M]
R259	D0GB332JA002	3.3K 1/16W	[M]
R260	ERJ3GEYJ473V	47K 1/16W	[M]
R261	D0GB333JA002	33K 1/16W	[M]
R262	ERJ3GEYJ222V	2.2K 1/16W	[M]
R264	ERJ3GEYJ182V	1.8K 1/16W	[M]
R265	ERJ3GEYJ391V	390 1/16W	[M]
R267	ERJ3GEYJ391V	390 1/16W	[M]
R268	ERJ3GEYJ222V	2.2K 1/16W	[M]
R269	ERJ3GEYJ473V	47K 1/16W	[M]
R270	D0GB393JA002	39K 1/16W	[M]
R271	ERJ3GEYJ153V	15K 1/16W	[M]
R272	D0GB683JA002	68K 1/16W	[M]
R273	ERJ3GEYJ103V	10K 1/16W	[M]
R274	ERJ3GEYJ103V	10K 1/16W	[M]
R276	ERJ3GEYJ182V	1.8K 1/16W	[M]
R280	ERJ3GEYJ104V	100K 1/16W	[M]
R281	ERJ3GEYJ102V	1K 1/16W	[M]
R289	ERJ3GEY0R00V	0 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]

Ref. No.	Part No.	Part Name & Description	Remarks
R306	ERJ3GEYJ391V	390 1/16W	[M]
R307	ERJ3GEYJ391V	390 1/16W	[M]
R310	D0GB152JA002	1.5K 1/16W	[M]
R312	ERJ3GEYJ221V	220 1/16W	[M]
R316	ERJ3GEYJ103V	10K 1/16W	[M]
R317	ERJ3GEYJ102V	1K 1/16W	[M]
R319	ERJ3GEY0R00V	0 1/16W	[M]
R337	D0GB273JA002	27K 1/16W	[M]
R339	D0GB563JA002	56K 1/16W	[M]
R340	ERJ3GEYJ221V	220 1/16W	[M]
R342	ERJ3GEYJ473V	47K 1/16W	[M]
R343	D0GB333JA002	33K 1/16W	[M]
R345	ERJ3GEYJ222V	2.2K 1/16W	[M]
R346	ERJ3GEYJ182V	1.8K 1/16W	[M]
R347	D0GB683JA002	68K 1/16W	[M]
R348	D0GB821JA002	820 1/16W	[M]
R349	ERJ3GEYJ472V	4.7K 1/16W	[M]
R365	ERJ3GEY0R00V	0 1/16W	[M]
R370	ERJ3GEYJ104V	100K 1/16W	[M]
R371	ERJ3GEYJ472V	4.7K 1/16W	[M]
R372	ERJ3GEYJ472V	4.7K 1/16W	[M]
R373	D0GB332JA002	3.3K 1/16W	[M]
R374	ERJ3GEYJ104V	100K 1/16W	[M]
R375	ERJ3GEYJ103V	10K 1/16W	[M]
R376	ERDS1FVJ220T	22 1/2W	[M]
R377	ERJ3GEYJ224V	220K 1/16W	[M]
R378	D0GB101JA002	100 1/16W	[M]
R379	ERJ3GEYJ104V	100K 1/16W	[M]
R380	ERJ3GEYJ331V	330 1/16W	[M]
R381	ERJ3GEYJ225V	2.2M 1/16W	[M]
R385	ERDS1FVJ270T	27 1/2W	[M]
R386	ERJ3GEY0R00V	0 1/16W	[M]
R388	ERDS1FVJ100T	10 1/2W	[M]
R389	ERDS1FVJ100T	10 1/2W	[M]
R392	D0GB101JA002	100 1/2W	[M]
R393	D0GB101JA002	100 1/2W	[M]
R394	ERJ3GEYJ102V	1K 1/16W	[M]
R395	ERJ3GEYJ102V	1K 1/16W	[M]
R398	ERJ3GEYJ103V	10K 1/16W	[M]
R399	ERJ3GEYJ103V	10K 1/16W	[M]
R401	ERJ3GEYJ103V	10K 1/16W	[M]
R402	D0GB332JA002	3.3K 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	ERJ3GEYJ182V	1.8K 1/16W	[M]
R408	D0GB562JA002	5.6K 1/16W	[M]
R409	ERJ3GEYJ104V	100K 1/16W	[M]
R410	ERJ3GEYJ473V	47K 1/16W	[M]
R411	ERJ3GEYJ223V	22K 1/16W	[M]
R412	D0GB334JA002	330K 1/16W	[M]
R413	ERJ3GEYJ823V	82K 1/16W	[M]
R414	ERJ3GEYJ222V	2.2K 1/16W	[M]
R415	D0GB101JA002	100 1/16W	[M]
R416	ERJ3GEY0R00V	0 1/16W	[M]
R417	ERJ3GEYJ104V	100K 1/16W	[M]
R418	ERJ3GEYJ102V	1K 1/16W	[M]
R419	D0GB152JA002	1.5K 1/16W	[M]
R420	ERJ3GEYJ472V	4.7K 1/16W	[M]
R421	D0GB152JA002	1.5K 1/16W	[M]
R422	ERJ3GEYJ472V	4.7K 1/16W	[M]
R423	ERJ3GEYJ473V	47K 1/16W	[M]
R424	D0GB302JA008	3K 1/16W	[M]
R425	D0GB563JA002	56K 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	ERJ3GEYJ153V	15K 1/16W	[M]
R431	ERJ3GEYJ222V	2.2K 1/16W	[M]
R432	ERJ3GEYJ104V	100K 1/16W	[M]
R433	ERJ3GEYJ102V	1K 1/16W	[M]
R434	ERJ3GEYJ330V	33 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R435	ERJ3GEYJ330V	33 1/16W	[M]
R436	ERJ3GEYJ330V	33 1/16W	[M]
R437	ERJ3GEYJ330V	33 1/16W	[M]
R438	ERJ3GEYJ472V	4.7K 1/16W	[M]
R440	ERJ3GEYJ123V	12K 1/16W	[M]
R441	ERJ3GEYJ103V	10K 1/16W	[M]
R442	ERJ3GEYJ822V	8.2K 1/16W	[M]
R443	D0GB333JA002	33K 1/16W	[M]
R445	ERJ3GEYJ103V	10K 1/16W	[M]
R447	ERJ3GEYJ221V	220 1/16W	[M]
R448	D0GB274JA002	270K 1/16W	[M]
R449	ERJ3GEYJ102V	1K 1/16W	[M]
R450	D0GB332JA002	3.3K 1/16W	[M]
R452	ERJ3GEYJ473V	47K 1/16W	[M]
R453	ERJ3GEYJ473V	47K 1/16W	[M]
R454	ERJ3GEYJ102V	1K 1/16W	[M]
R455	ERJ3GEYJ104V	100K 1/16W	[M]
R456	ERJ3GEYJ102V	1K 1/16W	[M]
R457	ERJ3GEYJ472V	4.7K 1/16W	[M]
R458	D0GB273JA002	2.7K 1/16W	[M]
R459	D0GB332JA002	3.3K 1/16W	[M]
R460	ERJ3GEYJ473V	47K 1/16W	[M]
R461	D0GB333JA002	33K 1/16W	[M]
R462	ERJ3GEYJ222V	2.2K 1/16W	[M]
R464	ERJ3GEYJ182V	1.8K 1/16W	[M]
R465	ERJ3GEYJ391V	390 1/16W	[M]
R467	ERJ3GEYJ391V	390 1/16W	[M]
R468	ERJ3GEYJ222V	2.2K 1/16W	[M]
R469	ERJ3GEYJ473V	47K 1/16W	[M]
R470	D0GB393JA002	39K 1/16W	[M]
R471	ERJ3GEYJ153V	15K 1/16W	[M]
R472	D0GB683JA002	68K 1/16W	[M]
R473	ERJ3GEYJ103V	10K 1/16W	[M]
R474	ERJ3GEYJ103V	10K 1/16W	[M]
R476	ERJ3GEYJ182V	1.8K 1/16W	[M]
R480	ERJ3GEYJ104V	100K 1/16W	[M]
R481	ERJ3GEYJ102V	1K 1/16W	[M]
R489	ERJ3GEY0R00V	0 1/16W	[M]
R500	ERDS2TJ153T	15K 1/4W	[M]
R501	ERDS2TJ153T	15K 1/4W	[M]
R502	ERDS2TJ153T	15K 1/4W	[M]
R503	ERDS2TJ153T	15K 1/4W	[M]
R504	ERDS2TJ562T	5.6K 1/4W	[M]
R505	ERDS2TJ562T	5.6K 1/4W	[M]
R506	ERDS2TJ562T	5.6K 1/4W	[M]
R507	ERDS2TJ562T	5.6K 1/4W	[M]
R508	ERDS2TJ683T	68K 1/4W	[M]
R509	ERDS2TJ683T	68K 1/4W	[M]
R510	ERDS2TJ562T	5.6K 1/4W	[M]
R511	ERDS2TJ224T	220K 1/4W	[M]
R512	ERDS2TJ562T	5.6K 1/4W	[M]
R514	ERDS2TJ334T	330K 1/4W	[M]
R515	ERDS2TJ683T	68K 1/4W	[M]
R516	ERDS2TJ154T	150K 1/4W	[M]
R517	ERDS2TJ124T	120K 1/4W	[M]
R518	ERDS2TJ184T	180K 1/4W	[M]
R519	ERDS2TJ124T	120K 1/4W	[M]
R521	ERDS2TJ683T	68K 1/4W	[M]
R522	ERDS2TJ562T	5.6K 1/4W	[M]
R523	ERDS2TJ683T	68K 1/4W	[M]
R524	ERDS2TJ683T	68K 1/4W	[M]
R525	ERDS2TJ562T	5.6K 1/4W	[M]
R526	ERDS2TJ334T	330K 1/4W	[M]
R527	ERDS2TJ683T	68K 1/4W	[M]
R528	ERDS2TJ683T	68K 1/4W	[M]
R529	ERDS2TJ103T	10K 1/4W	[M]
R530	ERDS2TJ103T	10K 1/4W	[M]
R531	ERDS2TJ682T	6.8K 1/4W	[M]
R532	ERDS2TJ223T	22K 1/4W	[M]
R533	ERDS2TJ104T	100K 1/4W	[M]
R534	ERDS2TJ223T	22K 1/4W	[M]
R535	ERDS2TJ223T	22K 1/4W	[M]
R536	ERDS2TJ103T	10K 1/4W	[M]
R537	ERDS1FVJ2R7T	2.7 1/2W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R538	ERDS1FVJ2R7T	2.7 1/2W	[M]
R539	ERDS1FVJ2R7T	2.7 1/2W	[M]
R540	ERDS1FVJ2R7T	2.7 1/2W	[M]
R541	ERDS1FVJ2R7T	2.7 1/2W	[M]
R542	ERDS2TJ472T	4.7K 1/4W	[M]
R543	ERDS2TJ2R2T	2.2 1/4W	[M]
R544	ERDS2TJ332T	3.3K 1/4W	[M]
R545	ERDS2TJ222T	2.2K 1/4W	[M]
R546	ERDS2TJ151T	150 1/4W	[M]
R547	ERDS1FVJ270T	27 1/2W	[M]
R548	ERDS1FVJ150T	15 1/2W	[M]
R549	ERD2FCVG120T	12 1/4W	[M]
R550	ERDS1FVJ150T	15 1/2W	[M]
R552	ERDS2TJ332T	3.3K 1/4W	[M]
R553	ERDS2TJ101T	100 1/4W	[M]
R554	ERDS2TJ222T	2.2K 1/4W	[M]
R555	ERDS2TJ392T	3.9K 1/4W	[M]
R556	ERDS2TJ103T	10K 1/4W	[M]
R557	ERDS2TJ331T	330 1/4W	[M]
R558	ERDS2TJ2R2T	2.2 1/4W	[M]
R559	ERDS2TJ2R2T	2.2 1/4W	[M]
R560	ERDS2TJ2R2T	2.2 1/4W	[M]
R561	ERDS2TJ122T	1.2K 1/4W	[M]
R562	ERDS2TJ103T	10K 1/4W	[M]
R563	ERDS2TJ331T	330 1/4W	[M]
R564	ERDS1FVJ331T	330 1/2W	[M]
R565	ERDS1FVJ331T	330 1/2W	[M]
R566	ERDS1FVJ331T	330 1/2W	[M]
R579	ERDS2TJ473T	47K 1/4W	[M]
R580	ERDS2TJ473T	47K 1/4W	[M]
R581	ERDS2TJ272T	2.7K 1/4W	[M]
R582	ERDS2TJ561T	560 1/4W	[M]
R583	ERDS2TJ272T	2.7K 1/4W	[M]
R584	ERDS2TJ103T	10K 1/4W	[M]
R586	ERDS2TJ331T	330 1/4W	[M]
R601	ERDS2TJ681T	680 1/4W	[M]
R602	ERDS2TJ106T	10M 1/4W	[M]
R603	ERDS2TJ334T	330K 1/4W	[M]
R604	ERDS2TJ472T	4.7K 1/4W	[M]
R605	ERDS2TJ472T	4.7K 1/4W	[M]
R606	ERDS2TJ681T	680 1/4W	[M]
R607	ERDS2TJ392T	3.9K 1/4W	[M]
R608	ERDS2TJ103T	10K 1/4W	[M]
R612	ERDS2TJ474T	470K 1/4W	[M]
R613	ERDS2TJ472T	4.7K 1/4W	[M]
R614	ERDS2TJ680T	68 1/4W	[M]
R615	ERDS2TJ680T	68 1/4W	[M]
R616	ERDS2TJ104T	100K 1/4W	[M]
R617	ERDS2TJ104T	100K 1/4W	[M]
R618	ERDS2TJ104T	100K 1/4W	[M]
R619	ERDS2TJ104T	100K 1/4W	[M]
R620	ERDS2TJ104T	100K 1/4W	[M]
R621	ERDS2TJ104T	100K 1/4W	[M]
R622	ERDS2TJ104T	100K 1/4W	[M]
R623	ERDS2TJ104T	100K 1/4W	[M]
R624	ERDS2TJ104T	100K 1/4W	[M]
R625	ERDS2TJ104T	100K 1/4W	[M]
R626	ERDS2TJ104T	100K 1/4W	[M]
R627	ERDS2TJ104T	100K 1/4W	[M]
R628	ERDS2TJ272T	2.7K 1/4W	[M]
R630	ERDS2TJ472T	4.7K 1/16W	[M]
R632	ERDS2TJ101T	100 1/4W	[M]
R633	ERDS2TJ101T	100 1/4W	[M]
R634	ERDS2TJ101T	100 1/4W	[M]
R635	ERDS2TJ102T	1K 1/4W	[M]
R636	ERDS2TJ102T	1K 1/4W	[M]
R637	ERDS2TJ101T	100 1/4W	[M]
R638	ERDS2TJ473T	47K 1/4W	[M]
R640	ERDS2TJ102T	1K 1/4W	[M]
R641	ERDS2TJ223T	22K 1/4W	[M]
R642	ERDS2TJ101T	100 1/4W	[M]
R643	ERDS2TJ101T	100 1/4W	[M]
R644	ERDS2TJ101T	100 1/4W	[M]
R645	ERDS2TJ103T	10K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R646	ERDS2TJ103T	10K 1/4W	[M]
R647	ERDS2TJ103T	10K 1/4W	[M]
R649	ERDS2TJ102T	1K 1/4W	[M]
R650	ERDS2TJ103T	10K 1/4W	[M]
R651	ERDS2TJ103T	10K 1/4W	[M]
R652	ERDS2TJ222T	2.2K 1/4W	[M]
R653	ERDS2TJ103T	10K 1/4W	[M]
R654	ERDS2TJ223T	22K 1/4W	[M]
R655	ERDS2TJ473T	47K 1/4W	[M]
R656	ERDS2TJ221T	220 1/4W	[M]
R657	ERDS2TJ221T	220 1/4W	[M]
R658	ERDS2TJ103T	10K 1/4W	[M]
R659	ERDS2TJ473T	47K 1/4W	[M]
R660	ERDS2TJ473T	47K 1/4W	[M]
R661	ERDS2TJ473T	47K 1/4W	[M]
R662	ERDS2TJ103T	10K 1/4W	[M]
R663	ERDS2TJ223T	22K 1/4W	[M]
R664	ERDS2TJ223T	22K 1/4W	[M]
R665	ERDS2TJ472T	4.7K 1/4W	[M]
R666	ERDS2TJ562T	5.6K 1/4W	[M]
R667	ERDS2TJ223T	22K 1/4W	[M]
R668	ERDS2TJ471T	470 1/4W	[M]
R669	ERDS2TJ104T	100K 1/4W	[M]
R670	ERDS2TJ104T	100K 1/4W	[M]
R671	ERDS2TJ104T	100K 1/4W	[M]
R672	ERDS2TJ104T	100K 1/4W	[M]
R673	ERDS2TJ104T	100K 1/4W	[M]
R674	ERDS2TJ104T	100K 1/4W	[M]
R675	ERDS2TJ104T	100K 1/4W	[M]
R676	ERDS2TJ102T	1K 1/4W	[M]
R677	ERDS2TJ102T	1K 1/4W	[M]
R678	ERDS2TJ122T	1.2K 1/4W	[M]
R679	ERDS2TJ182T	1.8K 1/4W	[M]
R680	ERDS2TJ222T	2.2K 1/4W	[M]
R681	ERDS2TJ272T	2.7K 1/4W	[M]
R682	ERDS2TJ472T	4.7K 1/4W	[M]
R683	ERDS2TJ103T	10K 1/4W	[M]
R684	ERDS2TJ103T	10K 1/4W	[M]
R685	ERDS2TJ104T	100K 1/4W	[M]
R686	ERDS2TJ102T	1K 1/4W	[M]
R687	ERDS2TJ473T	47K 1/4W	[M]
R688	ERDS2TJ472T	4.7K 1/4W	[M]
R689	ERDS2TJ561T	560 1/4W	[M]
R690	ERDS2TJ334T	330K 1/4W	[M]
R691	ERDS2TJ151T	150 1/4W	[M]
R692	ERDS2TJ822T	8.2K 1/4W	[M]
R693	ERDS2TJ334T	330K 1/4W	[M]
R694	ERDS2TJ332T	3.3K 1/4W	[M]
R696	ERDS2TJ822T	8.2K 1/4W	[M]
R697	ERDS2TJ472T	4.7K 1/4W	[M]
R698	ERDS2TJ682T	6.8K 1/4W	[M]
R699	ERDS2TJ470T	47 1/4W	[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	ERJ3GEYJ102V	1K 1/16W	[M]
R708	ERJ3GEYJ102V	1K 1/16W	[M]
R709	ERJ3GEYJ223V	22K 1/16W	[M]
R711	ERJ3GEYJ823V	82K 1/16W	[M]
R712	ERJ3GEYJ561V	560 1/16W	[M]
R714	ERJ3GEYJ221V	220 1/16W	[M]
R715	D0GB272JA002	2.7K 1/16W	[M]
R717	ERJ3GEYJ102V	1K 1/16W	[M]
R718	ERJ3GEYJ102V	1K 1/16W	[M]
R720	D0GB105JA002	1M 1/16W	[M]
R721	D0GB101JA002	100 1/16W	[M]
R723	D0GB562JA002	5.6K 1/16W	[M]
R725	ERJ3GEYJ561V	560 1/16W	[M]
R727	D0GB152JA002	1.5K 1/16W	[M]
R728	ERJ3GEYJ153V	15K 1/16W	[M]
R729	D0GB152JA002	1.5K 1/16W	[M]
R731	ERJ3GEYJ223V	22K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R735	D0GB101JA002	100 1/16W	[M]
R736	D0GB100JA002	10 1/16W	[M]
R744	D0GB124JA002	120K 1/16W	[M]
R749	ERJ3GEYJ223V	22K 1/16W	[M]
R750	ERJ3GEYJ5R6V	5.6 1/16W	[M]
R753	D0GB100JA002	10 1/16W	[M]
R760	D0GB101JA002	100 1/16W	[M]
R800	ERJ3GEYJ102V	1K 1/16W	[M]
R801	ERJ3GEYJ223V	22K 1/16W	[M]
R802	ERJ3GEYJ473V	47K 1/16W	[M]
R803	ERJ3GEYJ472V	4.7K 1/16W	[M]
R804	ERJ3GEYJ472V	4.7K 1/16W	[M]
R805	ERJ3GEYJ103V	10K 1/16W	[M]
R806	ERJ3GEYJ102V	1K 1/16W	[M]
R807	ERJ3GEYJ473V	47K 1/16W	[M]
R808	D0GB152JA002	1.5K 1/16W	[M]
R809	ERJ3GEYJ102V	1K 1/16W	[M]
R810	ERJ3GEYJ102V	1K 1/16W	[M]
R811	ERJ3GEYJ223V	22K 1/16W	[M]
R812	ERJ3GEYJ223V	22K 1/16W	[M]
R813	ERJ3GEYJ472V	4.7K 1/16W	[M]
R814	ERJ3GEYJ473V	47K 1/16W	[M]
R815	D0GB101JA002	100 1/16W	[M]
R816	ERJ3GEYJ472V	4.7K 1/16W	[M]
R817	ERJ3GEYJ472V	4.7K 1/16W	[M]
R818	D0GB101JA002	100 1/16W	[M]
R819	D0GB101JA002	100 1/16W	[M]
R820	ERJ3GEYJ473V	47K 1/16W	[M]
R821	D0GB101JA002	100 1/16W	[M]
R822	ERJ3GEYJ472V	4.7K 1/16W	[M]
R823	D0GB101JA002	100 1/16W	[M]
R824	ERJ3GEYJ472V	4.7K 1/16W	[M]
R825	D0GB101JA002	100 1/16W	[M]
R826	ERJ3GEYJ472V	4.7K 1/16W	[M]
R827	D0GB101JA002	100 1/16W	[M]
R828	ERJ3GEYJ472V	4.7K 1/16W	[M]
R829	D0GB101JA002	100 1/16W	[M]
R830	ERJ3GEYJ472V	4.7K 1/16W	[M]
R831	ERJ3GEYJ223V	22K 1/16W	[M]
R832	ERJ3GEYJ102V	1K 1/16W	[M]
R833	ERJ3GEYJ223V	22K 1/16W	[M]
R834	ERJ3GEYJ473V	47K 1/16W	[M]
R835	ERJ3GEYJ103V	10K 1/16W	[M]
R836	ERJ3GEYJ102V	1K 1/16W	[M]
R837	ERJ3GEYJ103V	10K 1/16W	[M]
R838	ERJ3GEYJ103V	10K 1/16W	[M]
R839	ERJ3GEYJ102V	1K 1/16W	[M]
R840	D0GB101JA002	100 1/16W	[M]
R841	D0GB101JA002	100 1/16W	[M]
R842	D0GB101JA002	100 1/16W	[M]
R843	D0GB101JA002	100 1/16W	[M]
R844	ERJ3GEYJ102V	1K 1/16W	[M]
R845	ERJ3GEYJ102V	1K 1/16W	[M]
R846	ERJ3GEYJ470V	47 1/16W	[M]
R847	D0GB1R0JA002	1 1/16W	[M]
R848	D0GB1R0JA002	1 1/16W	[M]
R849	ERJ3GEYJ221V	220 1/16W	[M]
R850	ERJ3GEYJ103V	10K 1/16W	[M]
R851	ERJ3GEYJ102V	1K 1/16W	[M]
R852	ERJ3GEYJ102V	1K 1/16W	[M]
R853	ERJ3GEYJ102V	1K 1/16W	[M]
R854	ERJ3GEYJ102V	1K 1/16W	[M]
R855	ERJ3GEYJ102V	1K 1/16W	[M]
R856	ERJ3GEYJ102V	1K 1/16W	[M]
R857	ERJ3GEYJ102V	1K 1/16W	[M]
R858	ERJ3GEYJ102V	1K 1/16W	[M]
R859	ERJ3GEYJ102V	1K 1/16W	[M]
R860	ERJ3GEYJ102V	1K 1/16W	[M]
R861	ERJ3GEYJ102V	1K 1/16W	[M]
R862	ERJ3GEYJ182V	1.8K 1/16W	[M]
R863	ERJ3GEYJ182V	1.8K 1/16W	[M]
R864	ERJ3GEYJ182V	1.8K 1/16W	[M]
R865	D0GB101JA002	100 1/16W	[M]
R866	D0GB101JA002	100 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R867	D0GB101JA002	100 1/16W	[M]
R868	D0GB101JA002	100 1/16W	[M]
R869	ERJ3GEYJ102V	1K 1/16W	[M]
R870	ERJ3GEYJ472V	4.7K 1/16W	[M]
R871	ERJ3GEYJ102V	1K 1/16W	[M]
R872	ERJ3GEYJ102V	1K 1/16W	[M]
R873	ERJ3GEYJ102V	1K 1/16W	[M]
R874	ERJ3GEYJ472V	4.7K 1/16W	[M]
R875	ERJ3GEYJ102V	1K 1/16W	[M]
R876	ERJ3GEYJ472V	4.7K 1/16W	[M]
R877	ERJ3GEYJ102V	1K 1/16W	[M]
R878	ERJ3GEYJ472V	4.7K 1/16W	[M]
R879	D0GB101JA002	100 1/16W	[M]
R880	D0GB101JA002	100 1/16W	[M]
R881	D0GB101JA002	100 1/16W	[M]
R882	ERJ3GEYJ103V	10K 1/16W	[M]
R883	ERJ3GEYJ103V	10K 1/16W	[M]
R884	ERJ3GEYJ103V	10K 1/16W	[M]
R885	ERJ3GEYJ103V	10K 1/16W	[M]
R886	ERJ3GEYJ103V	10K 1/16W	[M]
R887	ERJ3GEYJ103V	10K 1/16W	[M]
R888	ERJ3GEYJ103V	10K 1/16W	[M]
R889	ERJ3GEYJ472V	4.7K 1/16W	[M]
R890	ERJ3GEYJ472V	4.7K 1/16W	[M]
R891	ERJ3GEYJ102V	1K 1/16W	[M]
R892	ERJ3GEY0R00V	0 1/16W	[M]
R893	ERJ3GEYJ472V	4.7K 1/16W	[M]
R894	ERJ3GEY0R00V	0 1/16W	[M]
R895	ERJ3GEYJ473V	47K 1/16W	[M]
R897	D0GB101JA002	100 1/16W	[M]
R898	ERJ3GEY0R00V	0 1/16W	[M]
R899	ERJ3GEY0R00V	0 1/16W	[M]
R901	ERDS2TJ331T	330 1/4W	[M]
R902	ERDS2TJ331T	330 1/4W	[M]
R903	ERDS2TJ102T	1K 1/4W	[M]
R904	ERDS2TJ102T	1K 1/4W	[M]
R905	ERDS2TJ471T	470 1/4W	[M]
R906	ERDS2TJ472T	4.7K 1/4W	[M]
R907	ERDS2TJ102T	1K 1/4W	[M]
R908	ERDS2TJ472T	4.7K 1/4W	[M]
R909	ERDS2TJ101T	100 1/4W	[M]
R910	ERDS2TJ102T	1K 1/4W	[M]
R911	ERDS2TJ102T	1K 1/4W	[M]
R912	ERDS2TJ122T	1.2K 1/4W	[M]
R913	ERDS2TJ182T	1.8K 1/4W	[M]
R914	ERDS2TJ102T	1K 1/4W	[M]
R915	ERDS2TJ102T	1K 1/4W	[M]
R916	ERDS2TJ122T	1.2K 1/4W	[M]
R917	ERDS2TJ182T	1.8K 1/4W	[M]
R918	ERDS2TJ222T	2.2K 1/4W	[M]
R920	ERDS2TJ222T	2.2K 1/4W	[M]
R921	ERDS2TJ2R2T	2.2 1/4W	[M]
R922	ERDS2TJ221T	220 1/4W	[M]
R926	ERDS2TJ101T	100 1/4W	[M]
R927	ERDS2TJ101T	100 1/4W	[M]
R928	ERDS2TJ223T	22K 1/4W	[M]
R929	ERDS2TJ223T	22K 1/4W	[M]
R930	ERDS2TJ153T	15K 1/4W	[M]
R931	ERDS2TJ472T	4.7K 1/4W	[M]
R932	ERDS2TJ103T	10K 1/4W	[M]
R933	ERDS2TJ102T	1K 1/4W	[M]
R934	ERDS2TJ223T	22K 1/4W	[M]
R935	ERDS2TJ823T	82K 1/4W	[M]
R936	ERDS1FVJ390T	39 1/2W	[M]
R937	ERDS2TJ222T	2.2K 1/4W	[M]
R938	ERDS2TJ474T	470K 1/4W	[M]
R939	ERDS2TJ472T	4.7K 1/4W	[M]
R940	ERDS2TJ822T	8.2K 1/4W	[M]
R941	ERDS2TJ681T	680 1/4W	[M]
R942	ERDS2TJ681T	680 1/4W	[M]
R943	ERDS2TJ103T	10K 1/4W	[M]
R944	ERDS2TJ100T	10 1/4W	[M]
R945	ERDS2TJ100T	10 1/4W	[M]
R946	ERDS1FVJ390T	39 1/2W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R947	ERDS2TJ474T	470K 1/4W	[M]
R948	ERDS2TJ103T	10K 1/4W	[M]
R949	ERDS2TJ102T	1K 1/4W	[M]
R950	ERDS2TJ122T	1.2K 1/4W	[M]
R950	ERDS2TJ183T	18K 1/4W	[M]
R951	ERDS2TJ152T	1.5K 1/4W	[M]
R952	ERDS1FVJ220T	22 1/2W	[M]
R952	ERDS2TJ821T	820 1/4W	[M]
R953	ERDS1FVJ180T	18 1/2W	[M]
R953	ERDS2TJ393T	39K 1/4W	[M]
R954	ERDS1FVJ120T	12 1/2W	[M]
R958	ERD2FCVJ4R7T	4.7 1/4W	[M]
R959	ERDS2TJ472T	4.7K 1/4W	[M]
R960	ERDS2TJ151T	150 1/4W	[M]
R961	ERDS2TJ332T	3.3K 1/4W	[M]
R962	ERDS2TJ824T	820K 1/4W	[M]
R972	ERDS2TJ821T	820 1/4W	[M]
R973	ERDS2TJ393T	39K 1/4W	[M]
R982	ERDS1FVJ100T	10 1/2W	[M]
R983	ERDS1FVJ100T	10 1/2W	[M]
R984	ERDS1FVJ100T	10 1/2W	[M]
R985	ERDS1FVJ100T	10 1/2W	[M]
R1000	D0GB562JA002	5.6K 1/16W	[M]
R1001	D0GB101JA002	100 1/16W	[M] △
R1001	D0GB1R0JA002	1 1/16W	[M]
R1002	D0GB101JA002	100 1/16W	[M]
R1003	D0GB101JA002	100 1/16W	[M]
R1003	ERJ3GEYJ103V	10K 1/16W	[M]
R1004	D0GB152JA002	1.5K 1/16W	[M]
R1004	ERJ3GEYJ103V	10K 1/16W	[M]
R1005	ERJ3GEYD750V	75 1/16W	[M]
R1005	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1006	ERJ3GEYJ102V	1K 1/16W	[M]
R1006	ERJ3GEYJ103V	10K 1/16W	[M]
R1007	ERD25FVJ4R7T	4.7 1/4W	[M]
R1007	ERJ3GEYD562V	5.6K 1/16W	[M]
R1008	ERJ3GEYJ103V	10K 1/16W	[M]
R1008	ERJ3GEYJ223V	22K 1/16W	[M]
R1009	D0GB183JA002	18K 1/16W	[M]
R1009	ERJ3GEYD912V	9.1K 1/16W	[M]
R1010	D0GB183JA002	18K 1/16W	[M]
R1010	ERJ3GEYJ103V	10K 1/16W	[M]
R1011	ERJ3GEYJ103V	10K 1/16W	[M]
R1012	ERJ3GEYD332V	3.3K 1/16W	[M]
R1012	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1013	ERJ3GEYD750V	75 1/16W	[M]
R1013	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1014	ERJ3GEYD750V	75 1/16W	[M]
R1014	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1015	ERJ3GEYJ470V	47 1/16W	[M]
R1016	ERJ3GEYJ470V	47 1/16W	[M]
R1017	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1018	D0GB392JA002	3.9K 1/16W	[M]
R1019	D0GB392JA002	3.9K 1/16W	[M]
R1020	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1020	ERJ3GEYJ470V	47 1/16W	[M]
R1021	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1022	ERJ3GEYJ103V	10K 1/16W	[M]
R1024	D0GB563JA002	56K 1/16W	[M]
R1026	ERJ3GEYJ102V	1K 1/16W	[M]
R1027	ERJ3GEYJ104V	100K 1/16W	[M]
R1028	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1029	D0GB475JA008	4.7M 1/16W	[M]
R1030	D0GB101JA002	100 1/16W	[M]
R1031	D0GB273JA002	27K 1/16W	[M]
R1032	ERJ3GEYJ103V	10K 1/16W	[M]
R1035	ERJ3GEYJ103V	10K 1/16W	[M]
R1036	ERJ3GEYJ470V	47 1/16W	[M]
R1037	ERJ3GEYJ104V	100K 1/16W	[M]
R1038	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1039	ERJ3GEYJ153V	15K 1/16W	[M]
R1040	D0GB563JA002	56K 1/16W	[M]
R1045	ERJ3GEYJ104V	100K 1/16W	[M]
R1046	ERJ3GEYJ104V	100K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1047	ERJ3GEYJ102V	1K 1/16W	[M]
R1048	ERJ3GEYJ102V	1K 1/16W	[M]
R1049	D0GB105JA002	1M 1/16W	[M]
R1050	D0GB105JA002	1M 1/16W	[M]
R1051	ERJ3GEYJ221V	220 1/16W	[M]
R1052	ERJ3GEYJ221V	220 1/16W	[M]
R1053	ERJ3GEYJ681V	680 1/16W	[M]
R1054	ERJ3GEYJ681V	680 1/16W	[M]
R1055	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1056	ERJ3GEYJ221V	220 1/16W	[M]
R1057	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1058	D0GB272JA002	2.7K 1/16W	[M]
R1059	ERJ3GEYJ103V	10K 1/16W	[M]
R1060	ERJ3GEYJ391V	390 1/16W	[M]
R1061	D0GB2R7JA019	2.7 1/16W	[M]
R1062	D0GB2R7JA019	2.7 1/16W	[M]
R1063	ERJ3GEYJ102V	1K 1/16W	[M]
R1064	ERJ3GEYJ102V	1K 1/16W	[M]
R1065	ERJ3GEYJ102V	1K 1/16W	[M]
R1066	ERJ3GEYJ102V	1K 1/16W	[M]
R1075	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1076	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1079	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1080	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1084	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1085	ERJ3GEYJ473V	47K 1/16W	[M]
R1086	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1087	ERJ3GEYJ473V	47K 1/16W	[M]
R1088	ERJ3GEYJ223V	22K 1/16W	[M]
R1089	ERJ3GEYJ223V	22K 1/16W	[M]
R1090	ERJ3GEYJ221V	220 1/16W	[M]
R1091	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1092	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1093	ERJ3GEYJ102V	1K 1/16W	[M]
R1094	ERJ3GEYJ102V	1K 1/16W	[M]
R1095	ERJ3GEYJ104V	100K 1/16W	[M]
R1096	ERJ3GEYJ104V	100K 1/16W	[M]
R1097	ERJ3GEYJ103V	10K 1/16W	[M]
R1098	ERJ3GEYJ103V	10K 1/16W	[M]
R1099	ERJ6GEY0R00V	0 1/10W	[M]
R1100	ERJ6GEY0R00V	0 1/10W	[M]
R1101	ERJ6GEY0R00V	0 1/10W	[M]
R1102	ERJ6GEY0R00V	0 1/10W	[M]
R1103	ERJ6GEY0R00V	0 1/10W	[M]
R1104	ERJ6GEY0R00V	0 1/10W	[M]
R1105	ERJ6GEY0R00V	0 1/10W	[M]
		CAPACITORS	
C1	ECBT1H5R6KC5	5.6P 50V	[M]
C1	ECEALCKA101B	100 16V	[M]
C2	ECBT1E103ZF5	0.01 25V	[M]
C2	RCBS1H102KBY	1000P 50V	[M]
C3	ECBT1H2R2KC5	2.2P 50V	[M]
C4	ECBT1H181KB5	180P 50V	[M]
C5	ECBT1H5R6KC5	5.6P 50V	[M]
C6	ECBT1H3R3KC5	3.3P 50V	[M]
C7	ECBT1H4R7KC5	4.7P 50V	[M]
C8	ECBT1H3R3KC5	3.3P 50V	[M]
C9	ECBT1H2R2KC5	2.2P 50V	[M]
C10	ECBT1H180JC5	18P 50V	[M]
C11	RCBS1H102KBY	1000P 50V	[M]
C101	ECJ1VB1E103K	0.01 25V	[M]
C102	ECEALCKA100B	10 16V	[M]
C103	ECJ1VB1E103K	0.01 25V	[M]
C104	ECJ1VB1H102K	1000P 50V	[M]
C106	ECJ1VB1E103K	0.01 25V	[M]
C107	F1H1E473A075	0.047 25V	[M]
C108	F1H1H8R0A787	8P 50V	[M]
C109	ECJ1VB1H102K	1000P 50V	[M]
C110	ECJ1VB1E103K	0.01 25V	[M]
C111	ECEALHKA4R7B	4.7 50V	[M]
C112	ECJ1VB1E103K	0.01 25V	[M]
C113	ECJ1VB1H102K	1000P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C114	ECEA1HKA3R3B	3.3 50V	[M]
C115	ECEA1HKA4R7B	4.7 50V	[M]
C116	ECUV1C333KBV	0.033 16V	[M]
C117	ECJ1VB1E103K	0.01 25V	[M]
C118	ECJ1VB1E103K	0.01 25V	[M]
C119	F0A2A681A010	680P 100V	[M]
C120	ECEA1CKA100B	10 16V	[M]
C121	ECEA1HKAR47B	0.47 50V	[M]
C122	ECEA1HKA010B	1 50V	[M]
C123	ECEA1HKA010B	1 50V	[M]
C124	ECJ1VC1H101K	100P 50V	[M]
C125	ECEA1CKA220B	22 16V	[M]
C126	ECUV1C105ZFVN	10 16V	[M]
C127	ECEA1CKA220B	22 16V	[M]
C129	ECEA0JKA101B	100 6.3V	[M]
C130	ECEA0JKA101B	100 6.3V	[M]
C131	ECJ1VC1H151J	150P 50V	[M]
C132	ECJ1VB1H102K	1000P 50V	[M]
C133	ECJ1VC1H270J	27P 50V	[M]
C134	ECJ1VC1H270J	27P 50V	[M]
C136	ECJ1VB1H102K	1000P 50V	[M]
C137	ECJ1VB1H332K	3300P 50V	[M]
C138	ECJ1VB1E103K	0.01 25V	[M]
C139	ECEA1HKA4R7B	4.7 50V	[M]
C141	ECEA1HKA010B	1 50V	[M]
C142	ECEA1HKA010B	1 50V	[M]
C143	ECJ1VB1H682K	6800P 50V	[M]
C144	ECJ1VB1H682K	6800P 50V	[M]
C147	ECJ1VB1H102K	1000P 50V	[M]
C148	ECJ1VB1E103K	0.01 25V	[M]
C149	ECUV1C104ZFBV	0.1 16V	[M]
C201	ECJ1VB1H681K	680P 50V	[M]
C202	ECJ1VC1H101K	100P 50V	[M]
C203	ECJ1VB1H222K	2200P 50V	[M]
C204	ECEA1CKA100B	10 16V	[M]
C205	ECEA1HKA010B	1 50V	[M]
C206	ECEA1HKA010B	1 50V	[M]
C207	ECEA1HKAR22B	0.22 50V	[M]
C209	ECEA1HKA2R2B	2.2 50V	[M]
C210	ECEA1HKA2R2B	2.2 50V	[M]
C211	ECEA1HKA2R2B	2.2 50V	[M]
C212	ECEA1HKA4R7B	4.7 50V	[M]
C213	ECEA1HKA010B	1 50V	[M]
C214	ECEA1CKA100B	10 16V	[M]
C215	ECUV1C104KBV	0.1 16V	[M]
C216	ECEA1HKAR33B	0.33 50V	[M]
C217	ECEA1HKAR33B	0.33 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]
C223	ECEA1HKA010B	1 50V	[M]
C224	F1H1C683A075	0.068 16V	[M]
C225	ECJ1VC1H101K	100P 50V	[M]
C226	ECEA1HKAR68B	0.68 50V	[M]
C227	ECJ1VC1H101K	100P 50V	[M]
C228	ECJ1VC1H470J	47 50V	[M]
C229	ECEA1CKA100B	10 16V	[M]
C230	ECEA1CKA100B	10 16V	[M]
C231	ECJ1VB1H102K	1000P 50V	[M]
C232	ECEA1HKAR33B	0.33 50V	[M]
C233	ECJ1VB1H102K	1000P 50V	[M]
C234	ECJ1VB1H682K	6800P 50V	[M]
C235	ECJ1VB1H682K	6800P 50V	[M]
C236	ECEA1HKA010B	1 50V	[M]
C238	ECUV1H152KBV	1500P 50V	[M]
C239	ECJ1VB1H682K	6800P 50V	[M]
C241	F1H1C393A089	0.039 16V	[M]
C242	ECJ1VB1H562K	5600P 50V	[M]
C243	ECEA1HKAR68B	0.68 50V	[M]
C244	ECUV1C104KBV	0.1 16V	[M]
C245	ECJ1VC1H101K	100P 50V	[M]
C246	ECEA1HKA3R3B	3.3 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C247	ECEA1HKA3R3B	3.3 50V	[M]
C248	ECJ1VC1H470J	47 50V	[M]
C249	ECJ1VC1H101K	100P 50V	[M]
C250	ECEA1CKA100B	10 16V	[M]
C251	ECJ1VB1H681K	680P 50V	[M]
C252	ECEA1CKA100B	10 16V	[M]
C253	F1H1C683A075	0.068 16V	[M]
C254	ECJ1VC1H101K	100P 50V	[M]
C255	ECEA1HKA010B	1 50V	[M]
C256	ECEA1HKAR33B	0.33 50V	[M]
C257	ECUV1H470JCV	47P 50V	[M]
C265	ECEA1CKA100B	10 16V	[M]
C301	ECEA1HKA010B	1 50V	[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	ECEA1AM221B	220 10V	[M]
C310	ECEA1AKN100B	10 10V	[M]
C311	ECEA1CKA330B	33 16V	[M]
C312	ECJ1VB1E103K	0.01 25V	[M]
C313	ECJ1VB1E103K	0.01 25V	[M]
C314	ECEA1HKN4R7B	4.7 50V	[M]
C318	ECJ1VB1E103K	0.01 25V	[M]
C319	ECJ1VB1E103K	0.01 25V	[M]
C320	ECJ1VFC1474Z	0.47 16V	[M]
C328	ECJ1VB1E103K	0.01 25V	[M]
C329	ECEA1CKA100B	10 16V	[M]
C330	ECEA1HKA010B	1 50V	[M]
C331	ECEA1HKA010B	1 50V	[M]
C332	ECEA1CKA220B	22 16V	[M]
C333	ECKR1H102ZF5	1000P 50V	[M]
C334	F1H1C683A075	0.068 16V	[M]
C335	F1H1H392A022	3900P 50V	[M]
C336	ECJ1VB1E103K	0.01 25V	[M]
C343	ECJ1VB1E103K	0.01 25V	[M]
C344	ECJ1VB1E103K	0.01 25V	[M]
C370	ECJ1VB1E103K	0.01 25V	[M]
C371	ECUV1C104KBV	0.1 16V	[M]
C372	ECEA1CM221B	220 16V	[M]
C373	RCE1HKN100BG	10P 50V	[M]
C375	ECEA1HML01B	100 50V	[M]
C376	ECJ1VB1E103K	0.01 25V	[M]
C377	ECJ1VB1E103K	0.01 25V	[M]
C378	ECEA1CKA100B	10 16V	[M]
C401	ECJ1VB1H681K	680P 50V	[M]
C402	ECJ1VC1H101K	100P 50V	[M]
C403	ECJ1VB1H222K	2200P 50V	[M]
C404	ECEA1CKA100B	10 16V	[M]
C405	ECEA1HKA010B	1 50V	[M]
C406	ECEA1HKA010B	1 50V	[M]
C407	ECEA1HKAR22B	0.22 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	ECEA1HKAR33B	0.33 50V	[M]
C417	ECEA1HKAR33B	0.33 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]
C423	ECEA1HKA010B	1 50V	[M]
C424	F1H1C683A075	0.068 16V	[M]
C425	ECJ1VC1H101K	100P 50V	[M]
C426	ECEA1HKAR68B	0.68 50V	[M]
C427	ECJ1VC1H101K	100P 50V	[M]
C428	ECJ1VC1H470J	47 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C429	ECEALCKA100B	10 16V	[M]
C430	ECEALCKA100B	10 16V	[M]
C431	ECJ1VB1H102K	1000P 50V	[M]
C432	ECEALHKA33B	0.33 50V	[M]
C433	ECJ1VB1H102K	1000P 50V	[M]
C434	ECJ1VB1H682K	6800P 50V	[M]
C435	ECJ1VB1H682K	6800P 50V	[M]
C436	ECEALHKA010B	1 50V	[M]
C438	ECUV1H152KBV	1500P 50V	[M]
C439	ECJ1VB1H682K	6800P 50V	[M]
C441	FLH1C393A089	0.039 16V	[M]
C442	ECJ1VB1H562K	5600P 50V	[M]
C443	ECEALHKA68B	0.68 50V	[M]
C444	ECUV1C104KBV	0.1 16V	[M]
C445	ECJ1VC1H101K	100P 50V	[M]
C446	ECEALHKA3R3B	3.3 50V	[M]
C447	ECEALHKA3R3B	3.3 50V	[M]
C448	ECJ1VC1H470J	47 50V	[M]
C449	ECJ1VC1H101K	100P 50V	[M]
C450	ECEALCKA100B	10 16V	[M]
C451	ECJ1VB1H681K	680P 50V	[M]
C452	ECEALCKA100B	10 16V	[M]
C453	FLH1C683A075	0.068 16V	[M]
C454	ECJ1VC1H101K	100P 50V	[M]
C455	ECEALHKA010B	1 50V	[M]
C456	ECEALHKA33B	0.33 50V	[M]
C457	ECUV1H470JCV	47P 50V	[M]
C465	ECEALCKA100B	10 16V	[M]
C500	ECBT1H471KB5	470P 50V	[M]
C501	ECBT1H471KB5	470P 50V	[M]
C502	ECBT1H821KB5	820P 50V	[M]
C503	ECBT1H821KB5	820P 50V	[M]
C504	ECEA2AU100B	10 100V	[M]
C505	ECEALHKA010B	1 50V	[M]
C506	ECEALHKA010B	1 50V	[M]
C507	ECEA2AU100B	10 100V	[M]
C508	ECBT1H150J5	15P 50V	[M]
C509	ECBT1H150J5	15P 50V	[M]
C510	ECBT1H103KB5	0.01 50V	[M]
C511	ECBT1H821KB5	820P 50V	[M]
C512	ECBT1H471KB5	470P 50V	[M]
C513	ECBT1H471KB5	470P 50V	[M]
C514	ECBT1H821KB5	820P 50V	[M]
C515	ECEALHKA010B	1 50V	[M]
C516	ECQV1H184JL3	0.18 50V	[M]
C517	ECKR1H103MD5	0.01 50V	[M]
C518	ECA1EM101B	100 25V	[M]
C519	ECKR1H103MD5	0.01 50V	[M]
C520	ECKR1H103MD5	0.01 50V	[M]
C521	ECEALCKA101B	100 16V	[M]
C522	ECKR1H103MD5	0.01 50V	[M]
C524	ECKR1H103MD5	0.01 50V	[M]
C525	ECEALAKA330B	33 10V	[M]
C526	ECKR1H103MD5	0.01 50V	[M]
C527	ECEALEKA330B	33 25V	[M]
C528	F2A1H222A202	2200P 50V	[M]
C529	F2A1H222A202	2200P 50V	[M]
C530	ECEA0JKA221B	220 6.3V	[M]
C531	ECEALHKA010B	1 50V	[M]
C532	ECEA2AU100B	10 100V	[M]
C533	ECBT1H150J5	15P 50V	[M]
C534	ECBT1H150J5	15P 50V	[M]
C535	ECEA2AU100B	10 100V	[M]
C536	ECBT1H103KB5	0.01 50V	[M]
C537	ECEALHKA2R2B	2.2 50V	[M]
C538	ECEALCKA100B	10 16V	[M]
C539	ECA1EM101B	100 25V	[M]
C540	ECEALCKA100B	10 16V	[M]
C547	ECBT1H102KB5	1000P 50V	[M]
C600	ECEA0JKA101B	100 6.3V	[M]
C601	ECBT1H104ZF5	0.1 50V	[M]
C603	ECBT1H331KB5	330P 50V	[M]
C604	RCE1AM102B	1000P 10V	[M]
C605	ECBT1H102KB5	1000P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C606	ECBT1H561KB5	560P 50V	[M]
C607	ECBT1H561KB5	560P 50V	[M]
C608	ECBT1H561KB5	560P 50V	[M]
C609	ECBT1H561KB5	560P 50V	[M]
C610	ECBT1H561KB5	560P 50V	[M]
C611	ECBT1H561KB5	560P 50V	[M]
C612	ECBT1H561KB5	560P 50V	[M]
C613	ECBT1H561KB5	560P 50V	[M]
C615	ECBT1E103ZF5	0.01 25V	[M]
C616	ECEALAKA220B	22 10V	[M]
C617	ECBT1H103KB5	0.01 50V	[M]
C618	ECBT1H103KB5	0.01 50V	[M]
C619	ECBT1E103ZF5	0.01 25V	[M]
C620	ECBT1H680J5	68P 50V	[M]
C621	ECBT1H680J5	68P 50V	[M]
C622	ECBT1H150JC5	15P 50V	[M]
C623	ECBT1H180JC5	18P 50V	[M]
C624	ECBT1H560J5	56P 50V	[M]
C625	ECBT1H102KB5	1000P 50V	[M]
C626	ECBT1H560J5	56P 50V	[M]
C627	ECBT1H102KB5	1000P 50V	[M]
C628	ECBT1E223ZF5	0.022 25V	[M]
C629	ECBT1H331KB5	330P 50V	[M]
C630	ECBT1H101KB5	100P 50V	[M]
C631	ECEALHKA010B	1 50V	[M]
C632	ECEALHKA2R2B	2.2 50V	[M]
C633	ECBT1H101KB5	100P 50V	[M]
C634	ECBT1H101KB5	100P 50V	[M]
C635	ECBT1H104ZF5	0.1 50V	[M]
C636	ECBT1H101KB5	100P 50V	[M]
C639	ECEALHKA3R3B	3.3 50V	[M]
C640	ECEALVKA220B	22 35V	[M]
C641	ECEALVKA220B	22 35V	[M]
C646	ECBT1H330J5	33P 50V	[M]
C647	ECBT1H330J5	33P 50V	[M]
C649	ECBT1H331KB5	330P 50V	[M]
C653	ECBT1H101KB5	100P 50V	[M]
C654	ECBT1H101KB5	100P 50V	[M]
C655	ECBT1H102KB5	1000P 50V	[M]
C656	ECBT1E103ZF5	0.01 25V	[M]
C657	ECKR1H103ZF5	0.01 50V	[M]
C658	ECEALVKA4R7B	4.7 35V	[M]
C659	ECBT1E223ZF5	0.022 25V	[M]
C660	ECBT1E103ZF5	0.01 25V	[M]
C661	ECEALHKA33B	0.33 50V	[M]
C662	ECBT1H473ZF5	0.047 50V	[M]
C663	ECEALHKA010B	1 50V	[M]
C664	ECBT1H102KB5	1000P 50V	[M]
C665	ECBT1H101KB5	100P 50V	[M]
C666	ECBT1H102KB5	1000P 50V	[M]
C667	ECEALAKA101B	100 10V	[M]
C669	ECEA0JKA470B	47 6.3V	[M]
C670	FLD1H473A012	0.047 50V	[M]
C671	ECBT1E223ZF5	0.022 25V	[M]
C672	ECBT1E223ZF5	0.022 25V	[M]
C673	ECA1CM221B	220 16V	[M]
C701	ECEA0JKA330I	33 6.3V	[M]
C702	ECUVNC104KBV	0.1 16V	[M]
C703	ECEA0JKA101I	100 6.3V	[M]
C704	ECUVNC104KBV	0.1 16V	[M]
C706	ECJ1VB1H272K	2700P 50V	[M]
C707	FLH1E273A074	0.027 25V	[M]
C710	FLH1H121A755	120P 50V	[M]
C711	ECJ1VB1C103K	0.01 16V	[M]
C712	ECJ1VB1C103K	0.01 16V	[M]
C713	ECUVNC104KBV	0.1 16V	[M]
C714	ECEA0JKA101I	100 6.3V	[M]
C715	ECUV1C224KBV	0.22 16V	[M]
C716	ECJ1VB1H102K	1000P 50V	[M]
C717	ECUVNC104ZFB	0.1 16V	[M]
C718	ECUV1A124KBV	0.12 10V	[M]
C721	ECJ1VC1H120J	12P 50V	[M]
C722	ECJ1VC1H120J	12P 50V	[M]
C723	ECEA0JKA221I	220 6.3V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C724	ECUVNC104KBV	0.1 16V	[M]
C725	ECJ1VB1H102K	1000P 50V	[M]
C726	ECJ1VB1H102K	1000P 50V	[M]
C727	ECA1HAK010XI	1 50V	[M]
C728	ECA1HAK010XI	1 50V	[M]
C729	ECUVNC104KBV	0.1 16V	[M]
C730	ECUVNC104ZFV	0.1 16V	[M]
C731	ECEA0JKA221I	220 6.3V	[M]
C733	ECUVNC104KBV	0.1 16V	[M]
C734	ECEALAKA221I	220 10V	[M]
C735	ECUVNC104ZFV	0.1 16V	[M]
C736	ECUVNC104ZFV	0.1 16V	[M]
C737	ECUVNC104ZFV	0.1 16V	[M]
C738	F1H1C473A088	0.047 16V	[M]
C739	ECJ1VB1H103K	0.01 50V	[M]
C740	ECUVNC104KBV	0.1 16V	[M]
C741	ECJ1VB1H102K	1000P 50V	[M]
C742	F1H1E273A074	0.027 25V	[M]
C743	ECUVNC104ZFV	0.1 16V	[M]
C744	F1H1H223A761	0.022 50V	[M]
C746	ECUVNC104KBV	0.1 16V	[M]
C747	F1H1H181A797	180P 50V	[M]
C748	ECUVNC104KBV	0.1 16V	[M]
C749	ECJ1VB1H222K	2200P 50V	[M]
C750	ECUVNC104KBV	0.1 16V	[M]
C751	ECUVNC104KBV	0.1 16V	[M]
C752	ECJ1VB1H103K	0.01 50V	[M]
C753	ECJ1VB1H471K	470P 50V	[M]
C755	ECUVNC104KBV	0.1 16V	[M]
C756	ECEA1HKA4R7I	4.7 50V	[M]
C757	ECEA1HKA4R7I	4.7 50V	[M]
C758	ECUVNC104KBV	0.1 16V	[M]
C770	ECUVNC104KBV	0.1 16V	[M]
C780	ECUVNC104KBV	0.1 16V	[M]
C781	ECUVNC104KBV	0.1 16V	[M]
C782	ECUVNC104KBV	0.1 16V	[M]
C800	ECJ1VC1H100J	10P 50V	[M]
C801	F1H1H223A761	0.022 50V	[M]
C802	F1H1H331A022	330P 50V	[M]
C803	ECJ1VB1E103K	0.01 25V	[M]
C804	ECJ1VC1H100J	10P 50V	[M]
C805	ECJ1VC1H100J	10P 50V	[M]
C806	ECJ1VC1H100J	10P 50V	[M]
C807	ECJ1VC1H330J	33P 50V	[M]
C808	ECJ1VC1H330J	33P 50V	[M]
C809	ECUV1C104KBV	0.1 16V	[M]
C810	ECEA0JKA101B	100 6.3V	[M]
C811	ECUV1C104KBV	0.1 16V	[M]
C812	ECJ1VB1E103K	0.01 25V	[M]
C813	ECEA0JKA101B	100 6.3V	[M]
C814	ECJ1VB1H102K	1000P 50V	[M]
C815	ECEA0JKA101B	100 6.3V	[M]
C816	ECJ1VB1H102K	1000P 50V	[M]
C817	ECEA0JKA101B	100 6.3V	[M]
C818	ECJ1VB1H102K	1000P 50V	[M]
C819	ECEA0JKA101B	100 6.3V	[M]
C820	ECJ1VB1H102K	1000P 50V	[M]
C821	ECEALAKA101B	100 10V	[M]
C822	ECEA0JKA101B	100 6.3V	[M]
C823	ECUV1C104KBV	0.1 16V	[M]
C826	ECJ1VB1H471K	470 50V	[M]
C830	ECEA0JKA221B	220 6.3V	[M]
C831	ECEALAKA101B	100 10V	[M]
C832	ECEALAKA101B	100 10V	[M]
C833	EEUFCL1A681LB	680P 10V	[M]
C834	ECA1HML101B	100 50V	[M]
C835	F1H1A2240004	0.22 10V	[M]
C902	ECEA1HKA010B	1 50V	[M]
C903	ECEA1HKA010B	1 50V	[M]
C904	ECBT1C332KR5	3300P 16V	[M]
C905	ECEA1HKA47B	0.47 50V	[M]
C906	ECBT0J153MS5	0.015 6.3V	[M]
C907	ECFR1C333MR	0.033 16V	[M]
C908	ECEA1CKA220B	22 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C910	ECBT0J153MS5	0.015 6.3V	[M]
C911	ECBT1C472KR5	4700P 16V	[M]
C912	ECFR1C333MR	0.033 16V	[M]
C913	ECBT1E103ZF5	0.01 25V	[M]
C914	ECBT1H151KB5	150P 50V	[M]
C916	ECEA1HKA4R7B	4.7 50V	[M]
C917	ECBT1H102KB5	1000P 50V	[M]
C918	ECEA1HKA3R3B	3.3 50V	[M]
C919	ECBT1H471KB5	470P 50V	[M]
C920	ECBT1H683KB5	0.068 50V	[M]
C921	ECBT1H683KB5	0.068 50V	[M]
C922	ECBT1H683KB5	0.068 50V	[M]
C923	ECEA1AKA101B	100 10V	[M]
C950	RCA1CM102BT	1000P 16V	[M]
C951	RCA1CM102BT	1000P 16V	[M]
C952	ECKR1H103ZF5	0.01 50V	[M]
C953	ECKR1H103MD5	0.01 50V	[M]
C954	ECEA1AKA470B	47 10V	[M]
C955	ECQE1104KF3	0.1 100V	[M]
C956	ECKR1H103MD5	0.01 50V	[M]
C957	ECA1JM101B	100 63V	[M]
C960	F2A1E222A172	2200P 25V	[M]
C961	ECA2AM100B	10 100V	[M]
C962	ECA1HM101B	100 50V	[M]
C963	ECKR1H102ZF5	1000P 50V	[M]
C964	ECKR2H103ZF5	0.01 500V	[M]
C982	F1D1H473A012	0.047 50V	[M]
C983	F1D1H473A012	0.047 50V	[M]
C984	F1D1H473A012	0.047 50V	[M]
C985	F1D1H473A012	0.047 50V	[M]
C1000	ECJ1VC1H100D	10P 50V	[M] △
C1001	ECJ1VC1H100D	10P 50V	[M] △
C1001	F1H1H103A753	0.01 50V	[M]
C1002	ECEA1HKN2R2B	2.2 50V	[M]
C1002	ECUVNC104ZFV	0.1 16V	[M]
C1003	ECQP1152JZT	1500P 100V	[M]
C1003	ECUVNC104ZFV	0.1 16V	[M]
C1004	ECUVNC104ZFV	0.1 16V	[M]
C1005	ECUVNC104ZFV	0.1 16V	[M]
C1006	ECEA1HKA010B	1 50V	[M]
C1006	ECUVNC104ZFV	0.1 16V	[M]
C1007	ECUVNC104ZFV	0.1 16V	[M]
C1007	F0A2A472A015	4700P 100V	[M]
C1008	ECEA1HKA010B	1 50V	[M]
C1008	ECUVNC104ZFV	0.1 16V	[M]
C1009	ECEA1CKA470B	47 16V	[M]
C1009	ECUVNC104ZFV	0.1 16V	[M]
C1010	ECA1EM101B	100 25V	[M]
C1010	ECUVNC104ZFV	0.1 16V	[M]
C1011	ECQV1H473JL3	0.047 50V	[M]
C1011	ECUVNC104ZFV	0.1 16V	[M]
C1012	ECJ1VB1H102K	1000P 50V	[M]
C1012	ECUVNC104ZFV	0.1 16V	[M]
C1013	ECJ1VB1H102K	1000P 50V	[M]
C1013	ECJ1VC1H101K	100P 50V	[M]
C1014	ECJ1VB1H102K	1000P 50V	[M]
C1014	ECJ1VC1H151J	150P 50V	[M]
C1015	ECJ1VB1H102K	1000P 50V	[M]
C1015	ECUV1H271KBV	270P 50V	[M]
C1016	ECJ1VB1H222K	2200P 50V	[M]
C1016	ECUVNC104ZFV	0.1 16V	[M]
C1017	ECJ1VB1H222K	2200P 50V	[M]
C1017	ECUVNC104ZFV	0.1 16V	[M]
C1018	ECJ1VB1H103K	0.01 50V	[M]
C1018	F1H1H331A022	330P 50V	[M]
C1019	ECJ1VB1H102K	1000P 50V	[M]
C1019	ECJ1VC1H101K	100P 50V	[M]
C1020	ECJ1VB1H471K	470 50V	[M]
C1020	ECUVNC104ZFV	0.1 16V	[M]
C1021	ECJ1VB1H471K	470 50V	[M]
C1021	ECJ1VC1H101K	100P 50V	[M]
C1022	ECJ1VB1H102K	1000P 50V	[M]
C1023	ECJ1VB1H102K	1000P 50V	[M]
C1026	ECEA0JKA470B	47 6.3V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1027	ECJ1VB1H102K	1000P 50V	[M]
C1030	ECEA1AKA101B	100 10V	[M]
C1031	ECEA1AKA101B	100 10V	[M]
C1032	F1C1C183A001	0.018 16V	[M]
C1033	F1C1C183A001	0.018 16V	[M]
C1034	ECEA1HKA3R3B	3.3 50V	[M]
C1035	ECEA1HKA3R3B	3.3 50V	[M]
C1036	ECUV1C333KBV	0.033 16V	[M]
C1037	ECEA1HKA3R3B	3.3 50V	[M]
C1038	ECJ1VB1H221K	220P 50V	[M]
C1039	ECJ1VB1H221K	220P 50V	[M]
C1040	ECEA1CKA100B	10 16V	[M]
C1041	ECEA1CKA100B	10 16V	[M]
C1042	ECEA1CKA220B	22 16V	[M]
C1043	ECEA1HKA4R7B	4.7 50V	[M]
C1044	ECEA1AKA330B	33 10V	[M]
C1045	ECEA1AKA220B	22 10V	[M]
C1046	ECEA1CKA221B	220 16V	[M]
C1047	ECEA1HKA010B	1 50V	[M]
C1048	ECEA1HKA010B	1 50V	[M]
C1049	ECJ1VB1H102K	1000P 50V	[M]
C1050	ECJ1VB1H102K	1000P 50V	[M]
C1051	ECEA1HKA010B	1 50V	[M]
C1052	ECEA1HKA010B	1 50V	[M]
C1053	ECEA1CKA221B	220 16V	[M]
C1054	ECEA1HKA3R3B	3.3 50V	[M]
C1055	ECEA1HKA0R1B	0.1 50V	[M]
C1059	ECJ1VC1H101K	100P 50V	[M]
C1061	ECJ1VC1H101K	100P 50V	[M]
C1062	ECUV1C104ZFFV	0.1 16V	[M]
C1064	ECEA1HKA3R3B	3.3 50V	[M]
		CHIP JUMPER	

Ref. No.	Part No.	Part Name & Description	Remarks
RJ701	ERJ3GEY0R00V	0 1/16W	[M]
RJ702	ERJ3GEY0R00V	0 1/16W	[M]
RJ703	ERJ3GEY0R00V	0 1/16W	[M]
RJ704	ERJ3GEY0R00V	0 1/16W	[M]
RJ705	ERJ3GEY0R00V	0 1/16W	[M]
RJ706	ERJ3GEY0R00V	0 1/16W	[M]
RJ707	ERJ3GEY0R00V	0 1/16W	[M]
RJ708	ERJ3GEY0R00V	0 1/16W	[M]
RJ709	ERJ3GEY0R00V	0 1/16W	[M]
RJ711	ERJ3GEY0R00V	0 1/16W	[M]
RJ712	ERJ3GEY0R00V	0 1/16W	[M]
RJ713	ERJ3GEY0R00V	0 1/16W	[M]
RJ714	ERJ3GEY0R00V	0 1/16W	[M]
RJ715	ERJ3GEY0R00V	0 1/16W	[M]
RJ716	ERJ3GEY0R00V	0 1/16W	[M]
RJ717	ERJ3GEY0R00V	0 1/16W	[M]
RJ718	ERJ3GEY0R00V	0 1/16W	[M]
RJ720	ERJ3GEY0R00V	0 1/16W	[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]

20.5. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX0956	PACKING CASE	[M]
P2	RPNX0149-1	POLYFOAM	[M]
P3	RPF00007	MIRAMAT BAG	[M]
		ACCESSORIES	

Ref. No.	Part No.	Part Name & Description	Remarks
A1	N2QAGB000021	REMOTE CONTROLLER	[M]
A1-1	251200F1F	R/C BATTERY COVER	[M]
A2	RJA0019-2X	AC CORD	[M] △
A3	RQT6510-G	O/I BOOK	[M]
A4	RSA0006-J	FM ANTENNA	[M]
A5	N1DADYY00002	AM LOOP ANTENNA	[M]
A6	RJL1P016B15A	VIDEO CABLE	[M]
A7	SJP5213-2	AC CORD ADAPTOR	[M]

20.6. Packaging

