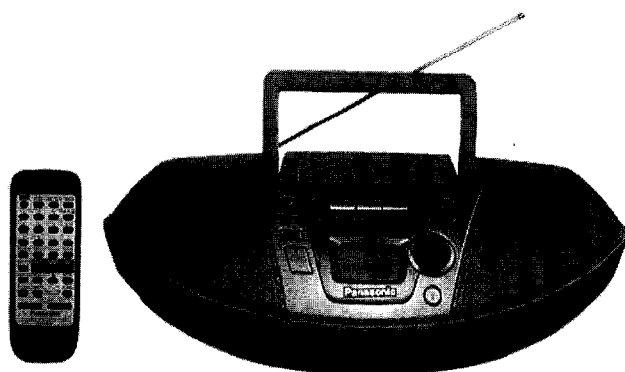


Service Manual

Portable Stereo CD System



RX-ES20

Colour

(S).....Silver Type

E.....Europe

EB....Great Britain

EG....Germany and Italy

Tape Deck: SG2 Mechanism Series

Traverse deck: CU100 Mechanism Series

■ RADIO

Frequency Range

AM	522-1629 kHz (9 kHz steps)
FM	87.5-108 MHz (50 kHz steps)

Intermediate Frequency

AM	459 kHz
FM	10.7 MHz

Sensitivity

AM	35 dB/m/50 mW
FM	17 dB/50 mW

■ TAPE RECORDER

Track System	4 track, 2 channel, stereo
Recording system	AC bias
Erasing system	Multi Pole magnet
Monitor system	Variable sound monitor

Frequency range

Normal position	50-14000 Hz
-----------------	-------------

■ CD PLAYER

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam source	Semiconductor laser (wavelength 780 nm)

No. of channels	2 channel, stereo
Wow and flutter	Below measurable limit
D/A converter	MASH (1 bit DAC)

■ GENERAL

Power requirement	
AC	230-240 V, 50 Hz
Power consumption	23 W
Battery	12 V (8 R20/LR20 D size, UM-1 batteries)
Memory backup for computer/clock	6 V (4 R6/LR6 (AA, UM-3) batteries)
Speakers	
Full Range	8 cm 2.7Ω x 2
Jacks output	
Output	
Phones	3.5 mm stereo (16-32Ω)
Dimensions (W x H x D)	529 x 144 x 276 mm
Weight	About 4 kg without batteries

Notes:

1. Weights and dimensions shown are approximate.
2. Design and specifications are subject to change without notice.

Panasonic®

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**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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2 Protection Circuitry	3	Procedures	11
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1 Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C301 through a 10 Ω , 5 W resistor to ground. DO NOT SHORT-CIRCUIT DIRECTLY (with a screw driver 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 220 V, 240 V, 60 Hz in NO SIGNAL mode should be ~ 100 mA respectively.

2 Protection Circuitry

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

- No sound is heard when the power is turned on.
- 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.

3 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. To prevent the breakdown of the laser diode, an antistatic shorting pin is inserted into the flexible board (FFC board).
3. Take care not to apply excessive stress to the flexible board (FFC board). When removing or connecting the short pin, finish the job in as short time as possible.
4. Do not turn the variable resistor (laser power adjustment). It has already been adjusted.

• Grounding for electrostatic breakdown prevention

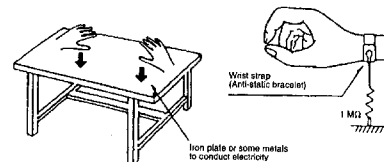
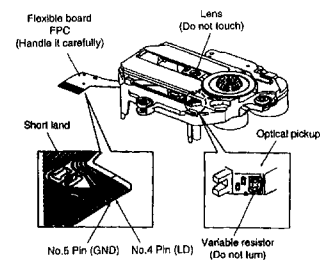
1. Human body grounding
Use the anti-static wrist strap to discharge the static electricity from your body.
2. Work table grounding.
Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is place, and ground the sheet.

Caution:

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

Caution when replacing the Traverse Deck

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



4 Precaution of Laser Diode

Caution:

This product utilizes a class 1 laser. Invisible laser radiation is emitted from the optical pick up lens.

When the unit is turned on:

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 laserdioden. Im eingeschalteten zustand wird unsichtbare laserstrahlung von der lasereinheit abgestrahlt.

Wellenlänge: 780 nm

Maximale strahlungsleistung der lasereinheit: 100 µW/VDE

Die strahlung an der lasereinheit ist ungefährlich, wenn folgende punkte beachtet werden:

1. Die lasereinheit nicht zerlegen, da die strahlung an der freigelegten laserdioden 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.

ADVASEL:

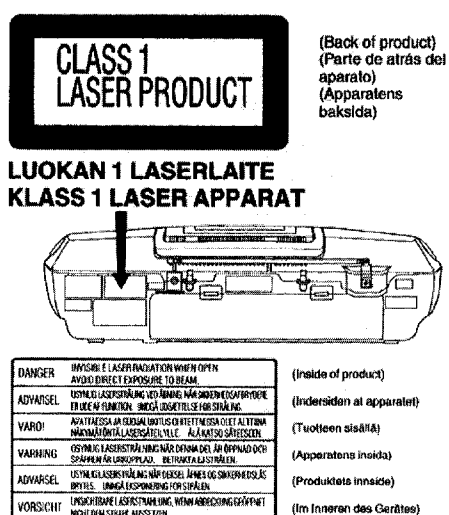
I dette a apparat anvendes laser.

CAUTION:

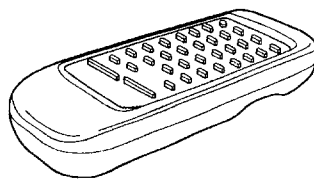
THIS PRODUCT UTILIZES A LASER.

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

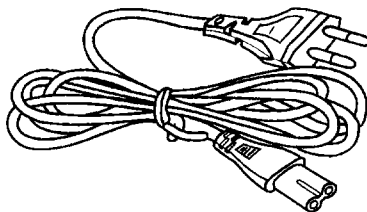
5 Use of Caution Labels



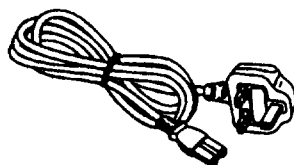
6 Accessories



Remote Control Transmitter.....1 pc



AC Power Supply (E/EG).....1 pc



AC Power Supply (EB).....1 pc

7 Caution for AC Mains Lead

(For "EB" area code model only.)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

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

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OFF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

IMPORTANT

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

Blue: Neutral
Brown: Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

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

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

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

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

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

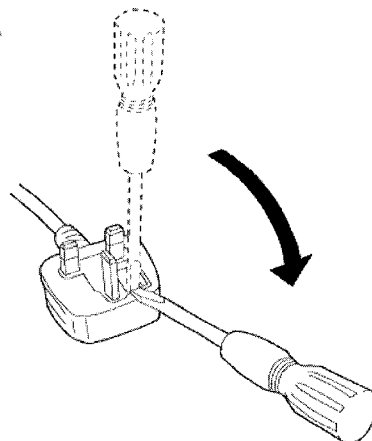
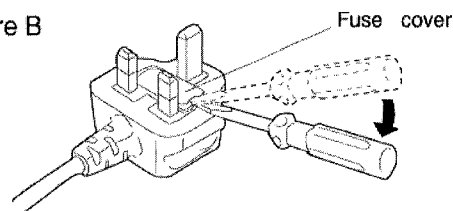


Figure B



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

Figure A

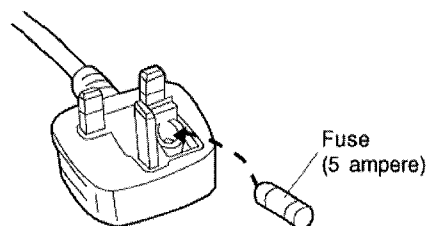
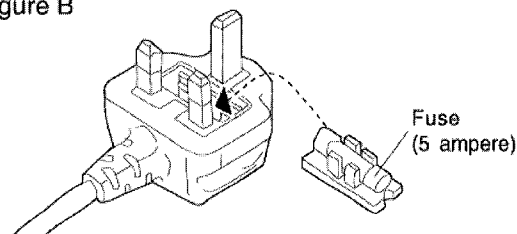
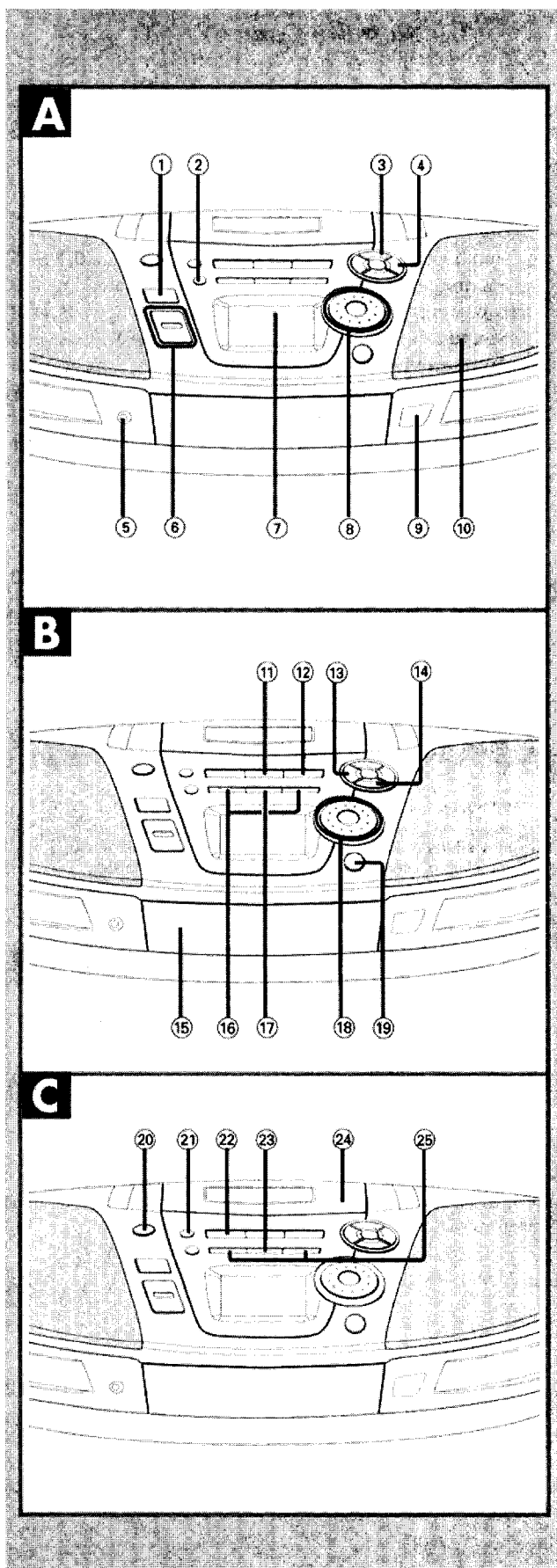


Figure B



8 Location of Controls



Location of Controls

A Basic controls

Number	Designation
--------	-------------

- ① **Standby/on switch** (⏻/⏻)
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
- ② **Preset equalizer button** (PRESET EQ)
- ③ **Play timer/record timer button** (⌚/PLAY/REC)
- ④ **Clock/timer button** (CLOCK/TIMER)
- ⑤ **Standby indicator** (⏻)
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
- ⑥ **Volume control buttons** (+, - VOLUME)
- ⑦ **Display panel**
- ⑧ **Time adjust/preset channel select/CD track select dial** (TIME/PRESET TUNE - CD SKIP ->)
- ⑨ **Remote control signal sensor** (SENSOR)
- ⑩ **Speaker**

Note

These speakers do not have magnetic shielding. Do not place them near televisions, personal computers or other devices easily influenced by magnetism.

B Tuner/CD controls

Number	Designation
--------	-------------

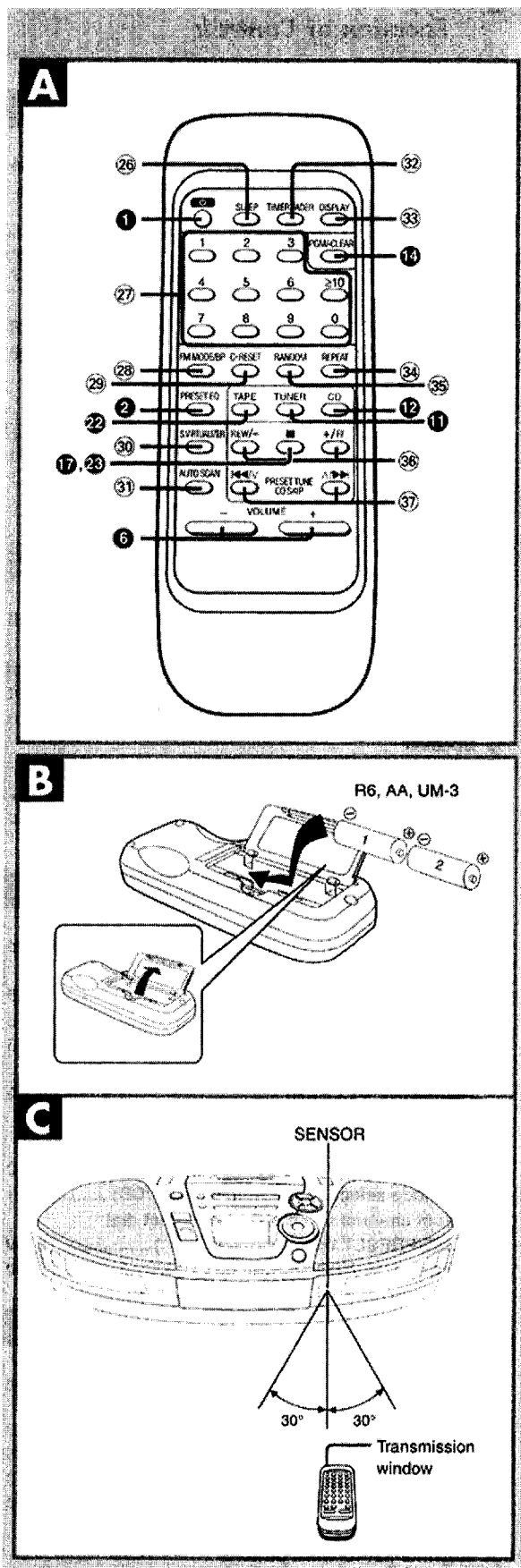
- ⑪ **Band button** (TUNER BAND)
- ⑫ **CD play/pause button** (▶/⏻ CD)
- ⑬ **CD recording mode button** (CD REC MODE)
- ⑭ **CD program/clear, tuner preset button** (▶MEMORY - CLEAR)
- ⑮ **CD tray**
- ⑯ **Tuning/CD search buttons** (REW / - / ◀◀, ▶▶ / + / FF)
- ⑰ **CD mode select/stop button** (■ TAPE/CD)
- ⑱ **Preset channel select/CD track select dial** (TIME/PRESET TUNE - CD SKIP ->)
- ⑲ **CD tray open/close button** (▲ CD)

C Cassette deck controls

Number	Designation
--------	-------------

- ⑳ **Deck eject button** (▲ DECK)
- ㉑ **Record/record pause button** (●/⏻)
- ㉒ **Cassette play button** (▶ TAPE)
- ㉓ **Tape mode select/stop button** (■ TAPE/CD)
- ㉔ **Deck**
- ㉕ **Rewind/fast-forward buttons** (REW / - / ◀◀, ▶▶ / + / FF)

9 The Remote Control



The Remote Control

A Buttons

Number	Designation
26	Sleep timer button (SLEEP)
27	Numbered buttons
28	FM mode/BP button (FM MODE/BP)
29	Tape counter reset button (C-RESET)
30	Sound virtualizer button (S.VIRTUALIZER)
31	Auto scan button (AUTO SCAN)
32	Timer fader button (TIMER FADER)
33	Display select button (DISPLAY)
34	Repeat button (REPEAT)
35	Random play button (RANDOM)
36	Tuning/rewind/fast-forward buttons (REW/-, +/FF)
37	Preset tuning/preset scan/CD skip/search buttons (◀◀/V, ^/▶▶)

When the unit is supplied with AC power, buttons 1, 2, 6, 11, 12, 14, 17, 22 and 23 function in the same way as the controls on the main unit. To save power, the unit cannot be turned on from the remote control when batteries are used.

B Batteries (not included)

Insert so the poles (+ and -) match those in the remote control.

Remove if the remote control is not going to be used for a long period of time. Store in a cool, dark place. Replace if the unit does not respond to the remote control even when held close to the front panel.

C Use

Aim at the sensor, avoiding obstacles, at a maximum range of 7 meters directly in front of the unit.

- Keep the transmission window and the unit's sensor free from dust.
- Operation can be affected by strong light sources, such as direct sunlight, and the glass doors on cabinets.

Do not

- put heavy objects on the remote control.
- take the remote control apart.
- spill liquids onto the remote control.

10 Self Diagnostic Function

10.1. Setting of self-diagnosis Function

10.1.1. Setting of CD self-diagnosis mode

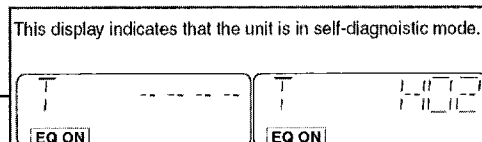
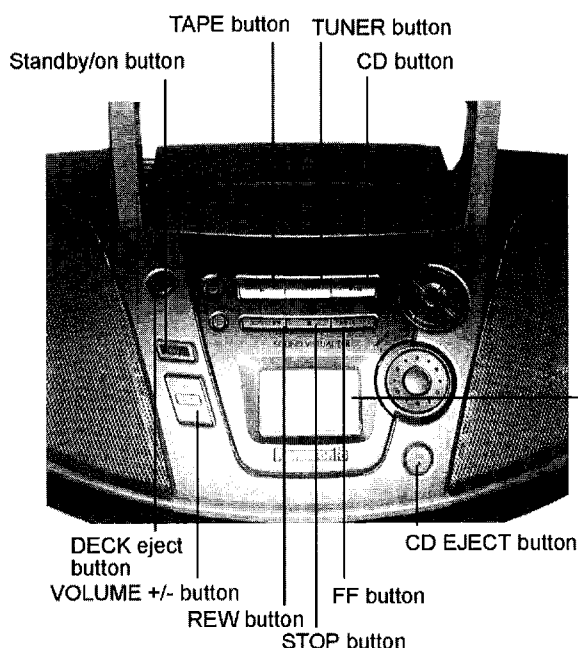
1. Remove the cassette from the deck.
2. Switch to CD function.
3. Press the CD/TAPE STOP key of the main set for more than 2 seconds. While pressing this key, press the FF key on the main set for another 2 seconds to enter into the Self-Diagnosis mode.

*Even if STOP / FUNCTION key of the main set is pressed while the Self Diagnosis mode is on, function shall not be switched. Instead, confirmation of error numbers shall begin.

10.1.2. Setting of cassette mechanism self-diagnosis mode

1. Activate the Self Diagnosis mode with the Deck unloaded.
2. The test mode display ([T] at the 1st digit shows TEST) shall be made and detection shall be executed to check RECINH SW, HALFSW are in OFF state.
(the tape counter display is retained)
3. Load a cassette tape (with recording preventive tab present) into a deck and close the cassette holder.
4. At this instant with the cassette loaded in RECINH SW, HALF SW shall be checked and confirmed at this stage by the software. Press FF key to proceed the self-diagnosis. The FF operation shall stop automatically after 3 sec. If abnormal operation is detected, the tape shall stop automatically after 1 sec. During the FF operation, the Reel Pulse shall be checked by the software.
5. After the tape stop, the Error codes shall be displayed by toggling the STOP key.

10.2. Display Location



10.3. Display Content

Note:

Items marked with () are automatically displayed, and do not required the procedure describe in the section "Self-Diagnosis Function".

Display Code	Symtom or condition	Cause and method of correction
*U01	When operating on batteries, power goes off immediately after being turned on.	The batteries are depleted. Replace with new batteries.
*U02	Power cannot be switch on.	The power cord (AC) or insert fresh batteries.
H01	Cassette deck does not operate correctly.	Faulty cassette deck mechanism mode detection switch (DECK 1: S951, DECK 2: 971), reel motor and plunger.(Check and replace)
H02	Units does not record, or the unit goes into recording mode even when the erasure prevention tabs have been removed from the cassette.	Faulty erasure-prevention tab detection switch (S974, S975) or short circuit.(Check and replace)
H03	Tape does not display, even when the tape deck play button is pressed.The motor operates when the tape deck play button is pressed, even when no cassette is loaded in the deck.	Faulty tape detection switch (DECK 1:S952, DECK 2: S972) or short-circuit.(Check and replace)
H15	The CD tray closes immediately after it is opened.	Faulty contact of the CD tray open detection switch (SW790). (Check and replace)
H16	The CD tray opens immediately after it is closed.	Faulty contact of the CD tray open detection switch (SW791). (Check and replace)
F01	When the play button is pressed, the tape advances only slightly and then stops.	Reel pulse error. (Faulty Hall IC)(Check and replace)
F02	TPS (Tape Program Search) does not work.	Faulty TPS signal detection or faulty plunger control.Check and replace mechanism control IC)
F15	When the CD Play button is pressed when either the power is off, or from some function other than CD, it takes excessive time (10 seconds or more) for the CD to play.	Faulty traverse inner circumference position detection switch (S701).(Check and replace)
*F26	When the CD operation mode is selected by pressing CD display, and the CD does not play when it has been loaded.	Communication error between servo-processor IC and microprocessor IC.(Check and replace)
F75	When a CD is loaded, "NO DISC" is displayed and the CD does not play.	Faulty CD circuit power supply. (Faulty power supply IC or CD circuit power supply system.) (Check and replace). Flexible circuit board has become disconnected or broken wiring. (Check and replace) Faulty servo-processor IC. (Check and replace)

11 Operation Checks and Main Component Replacement Procedures

“ATTENTION SERVICER”

Some chassis components maybe have sharp edges. Be careful when diassembling and servicing.

1. This section describes the procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For assembly after operation checks or replacement, reverse trhe respective procedures.
Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are requirement.
4. Refer the part no. on the page of “Main Component Replacement Procedures”, if necessary.

Content

• Checking Procedure for each major P.C.B.

1. Checking for the Panel P.C.B P.g. 11 ~ 12
2. Checking of the Main & CD Servo P.C.B P.g. 12 ~ 13

• Disassembly and Assembly of Traverse Deck P.g.13 ~ 14

• Main Component Replacement Procedures P.g.15 ~ 16

Warning:

This product uses a laser diode. Refer to P.4.

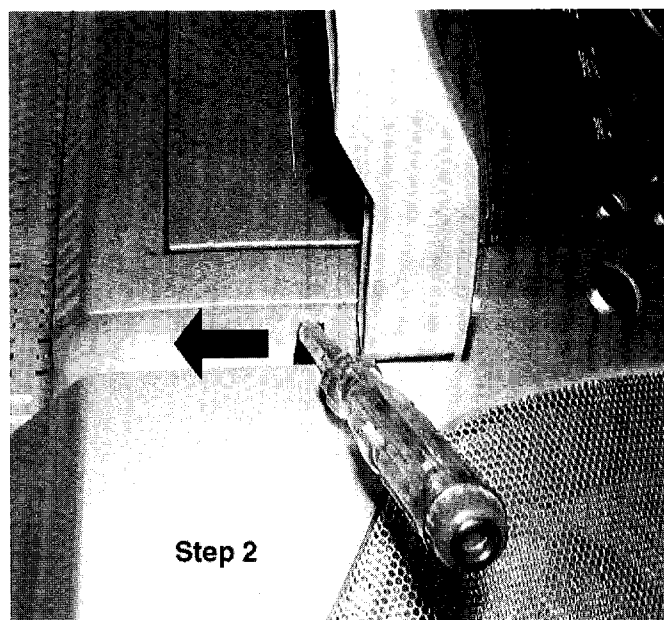
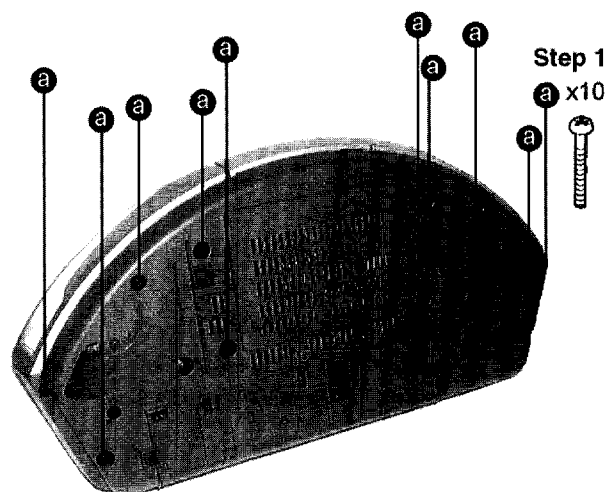
ACHTUNG:

Die Lasereinheit nicht zerlegen.

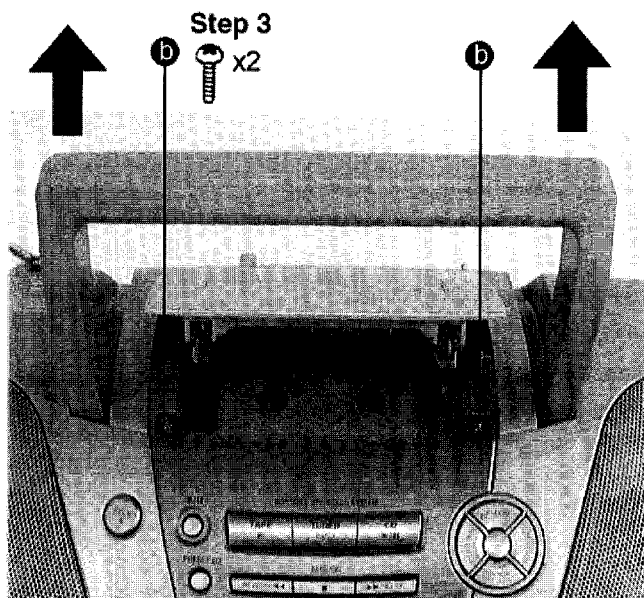
Die Lasereinheit darf nur gegen eine vom Hersteller spezifizierte Einheit ausgetauscht werden.

11.1. Checking Procedure for each major P.C.B.

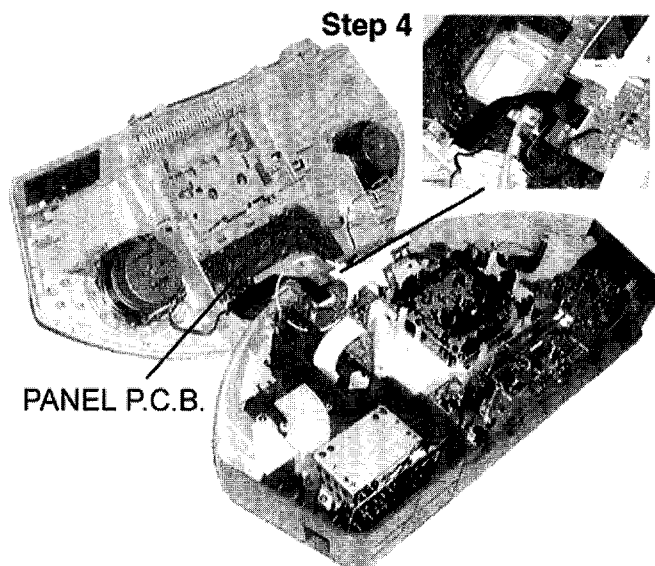
11.1.1. Checking for the Panel P.C.B.



Step 2: Use a screw driver and insert into the hole. Slide the screw driver to the direction shown to open the cassette lid.

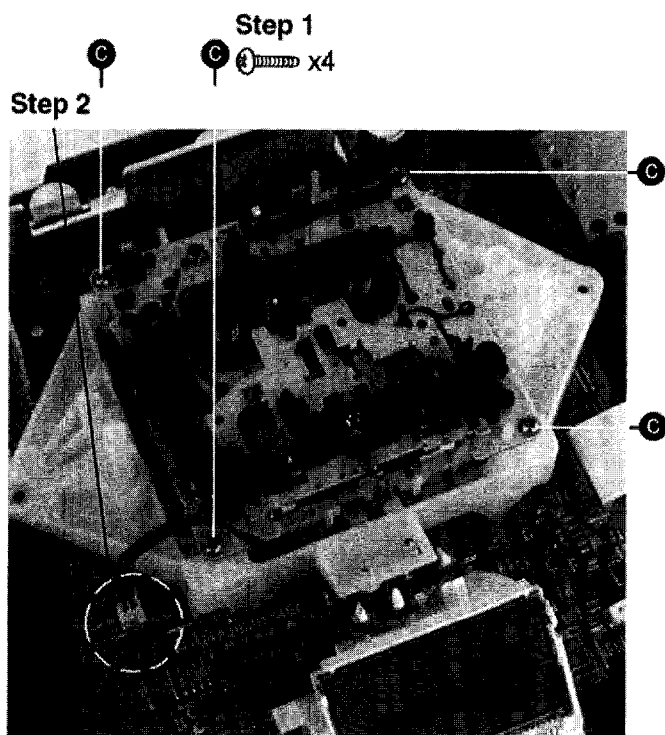


Step 3: Remove the two screws and lift up the front cabinet.

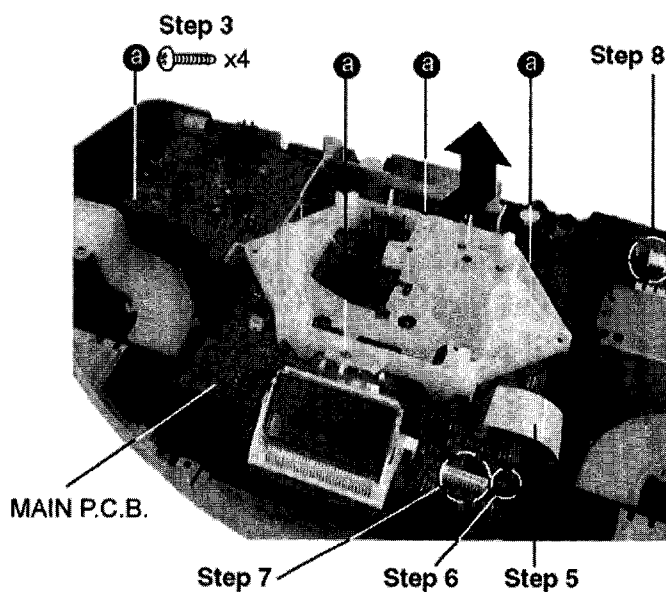


Step 5: Remove the FFC wire from CS601 and remove the front cabinet together with the Panel P.C.B.

11.1.2. Checking for Main & CD Servo P.C.B.



Step 2: Remove the connector CP1450 from the Main P.C.B.



Step 4: Take out the mecha chasis according to the direction shown.

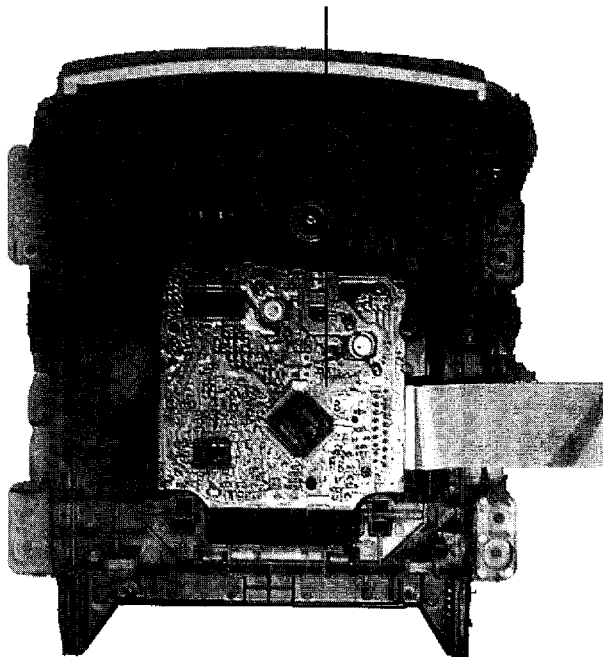
Step 5: Remove the FFC wire from CS801.

Step 6: Remove the FFC wire from CP802.

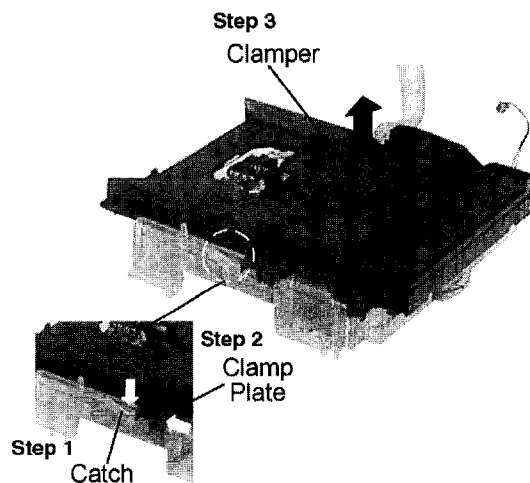
Step 7: Remove the FFC wire from CS601.

Step 8: Remove the wire from CP501 which is mounted on transformer P.C.B. Take out the Main P.C.B.

SERVO P.C.B.



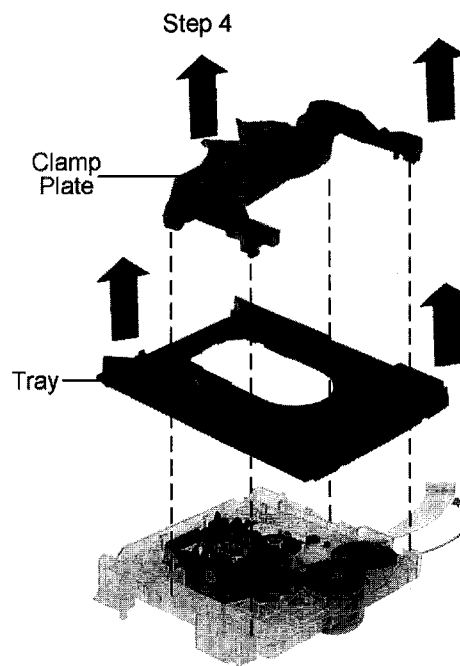
11.2. Disassembly and Assembly of Traverse Deck



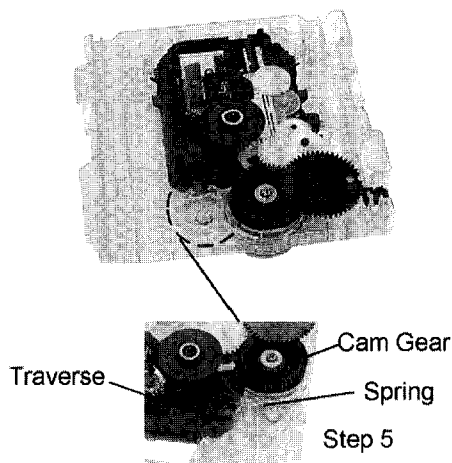
Step 1: Press down both catches on both side as shown.

Step 2: Push the clamp plate towards the catches.

Step 3: Pull the clamper away from the magnet situated inside the fixed plate.

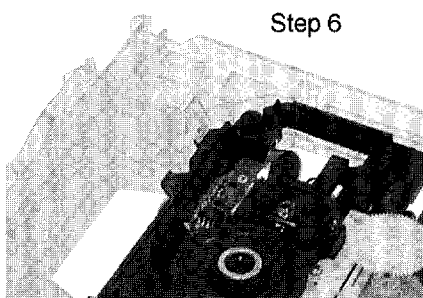


Step 4: Remove the clamp plate and tray in sequence.

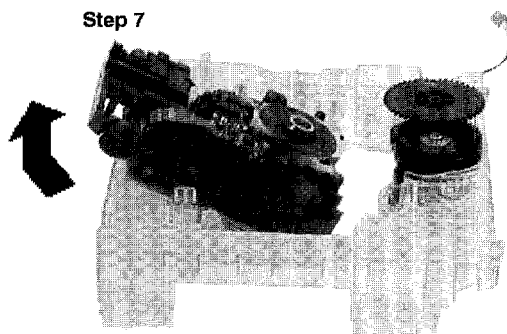


Step 5: Push the cam gear drive to about 30 anticlockwise.

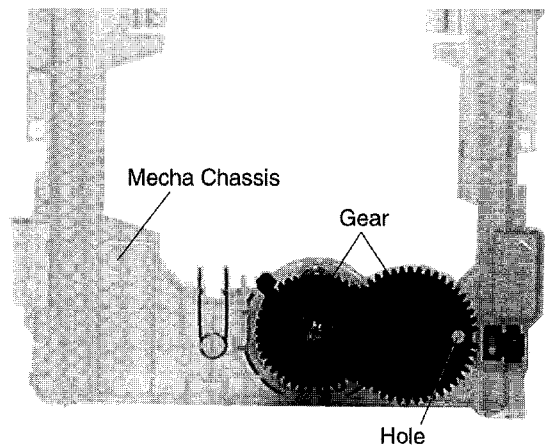
Shift the spring away from the traverse.



Step 6: Press on the catch on both sides one at a time. While pressing, shift the traverse up in the manner of left to right.

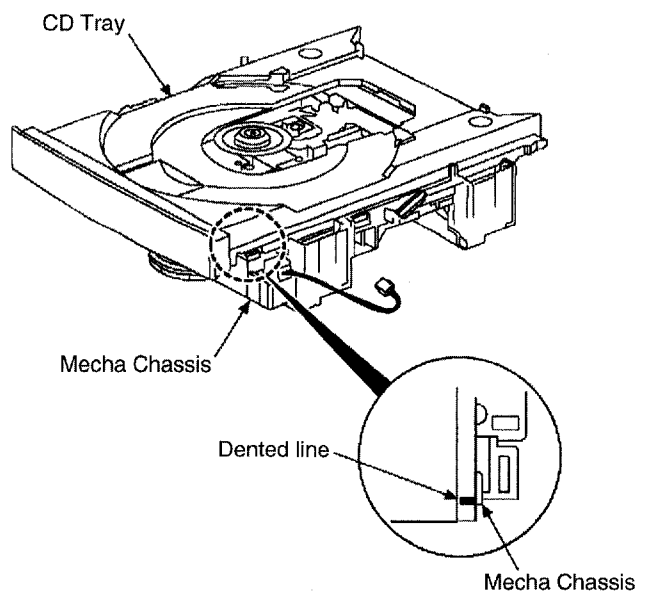


Step 7: Take out the traverse in a slanting manner.



Note:

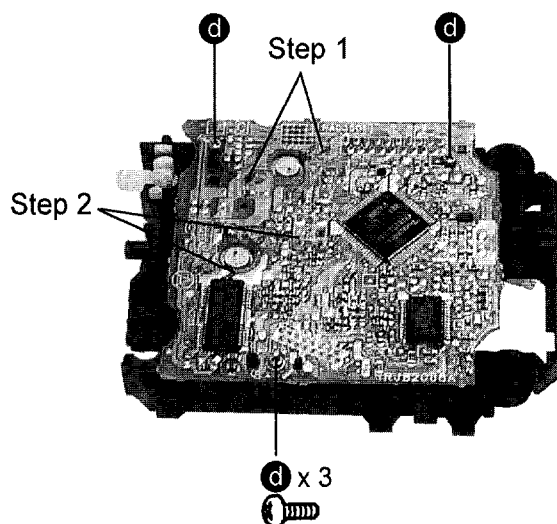
1. Follow the reverse procedure to replace the CD Traverse Unit and CD Tray.
2. Make sure that the two gear is in this position and the hole on the right gear is align with the hole below it when replacing the CD Traverse Unit and CD Tray.



Note:

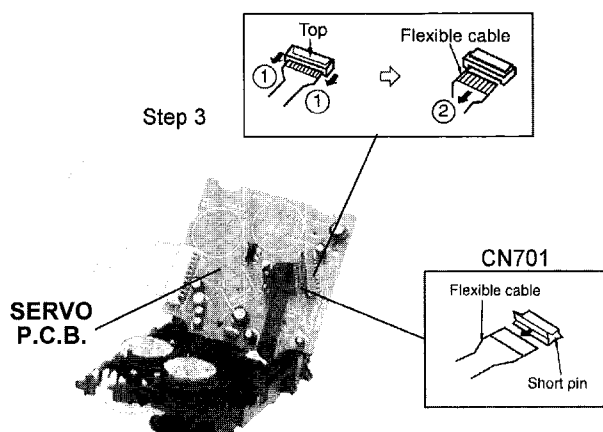
When replacing the CD Tray, make sure the dented line is at position as shown.

11.3. Main Component Replacement Procedures



Step 1: Desolder 2 terminals of the traverse motor.

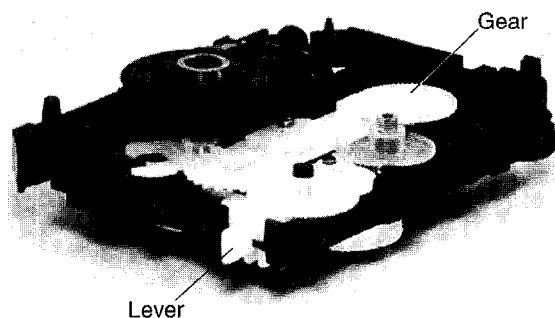
Step 2: Desolder 2 terminals of the spindle motor.



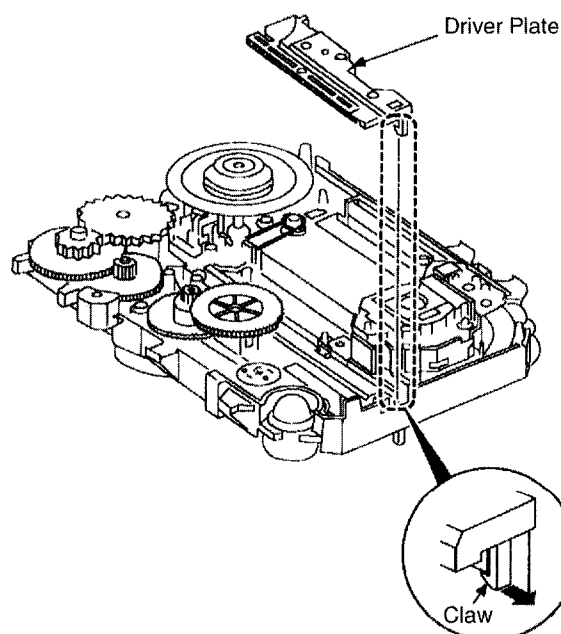
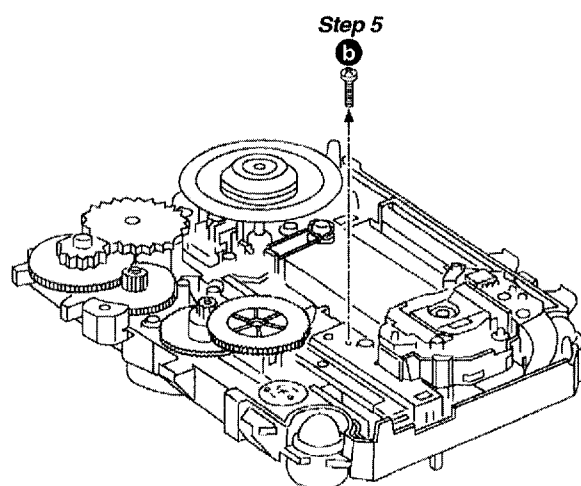
Step 3: Remove the flexible cable from CN701.

- Removal of the flexible cable.

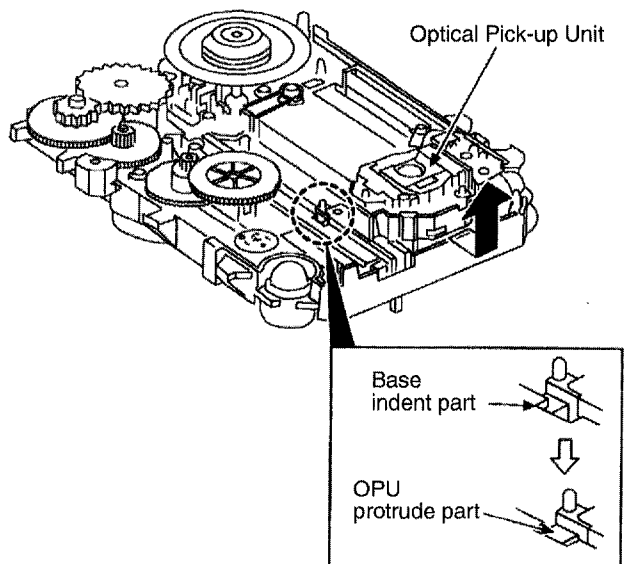
Push the top of the connector in the direction of arrow 1 and pull out the flexible cable in the direction of arrow 2.



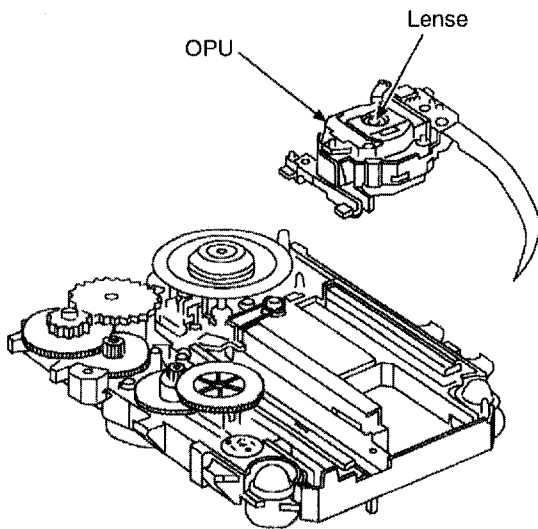
Step 4: Push the lever in and turn the gear clockwise fully.



Step 6: Release the claw and remove the Driver Plate.



Step 7: Slide out the Optical Pick-up Unit from the indent opening.



Step 8: Do not touch the lense on the OPU.

12 Measurements and Adjustments

12.1. Tuner Section

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set selector switch to AM or TAPE.
2. Set volume level to 40.
3. Output of signal generator should be no higher than necessary to obtain an output reading.

• AM-RF ALIGNMENT

Signal Generator or Sweep Generator		Radio Dial Setting	Indicator (Electronic Voltmeter or oscilloscope)	Adjustment(Shown in Fig.1)	Remarks
Connections	Frequency				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	594 kHz	Point of non-interference (on/about 600 kHz)	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	[*1] L3 (AM ANT coil)	Adjust for maximum output.
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	1503 kHz	Point of non-interference (on/about 600 kHz)	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	CT1 (AM ANT Trimmer)	Adjust for maximum output.

[*1] Fix antenna coil with wax after completing alignment.

• FM-RF ALIGNMENT

Signal Generator or Sweep Generator		Radio Dial Setting	Indicator (Electronic Voltmeter or oscilloscope)	Adjustment(Shown in Fig.1)	Remarks
Connections	Frequency				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	87.5 MHz	Point of non-interference (on/about 600 kHz)	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	[*1] L4 (AM IFT)	Adjust for maximum output.

• HEAD AZIMUTH ALIGNMENT

Test Tape	Indicator (Electronic Voltmeter or oscilloscope)	Adjustment	Remarks
QZZCFM (8 kHz, -20 dB)	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Azimuth Screw (Shown in Fig. 3)	1. Insert a test tape (QZZCFM) and start playback in the forward direction. 2. Adjust the azimuth screw for maximum waveform on the oscilloscope and the similar output on L and R channels. 3. When adjusting the azimuth in the reverse direction, repeat the adjustment several times because of a little slip on the forward direction side.

CAUTION:

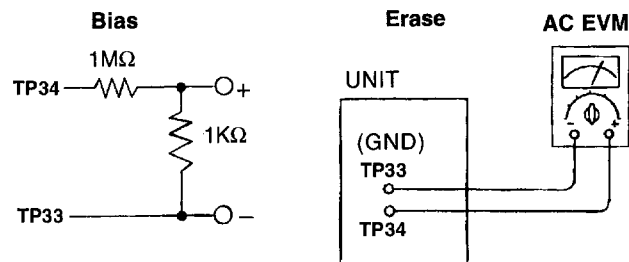
- Please remove the screw-locking bond left on the head base when replacing the azimuth screw.
- After the adjustment, apply screw lock to the azimuth adjusting screw. (Screw-locking bond: RZZ0L01)

• TAPE SPEED ALIGNMENT

Test Tape	Equipment Connection	Adjustment	Specification	Remarks
QZZCWAT (3 kHz, -10 dB)	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	—	3000 ± 90 Hz	Playmode

• BIAS AND ERASE VOLTAGE CHECK

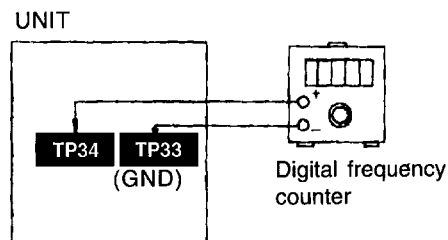
1. Set the unit to "TUNER MODE" position.
2. Insert the Normal blank tape (QZZCRA) into DECK and set the unit to "REC" mode (use "●REC / STOP" key).
3. Measure and make sure that the output is within the standard value.
4. Insert the CrO₂ tape (QZZCRX).
5. Repeat steps 2 and 3.



Bias voltage for Deck (Standard value): $17.3 \pm 1\text{mV}$ (Normal)

• BIAS FREQUENCY ADJUSTMENT

1. Set the unit to "TUNER MODE" position.
2. Insert the Normal blank tape (QZZCRA) into DECK and set the unit to "REC" mode (use "●REC / STOP" key).
3. Adjust CP1301 so that the output frequency is within the standard value.

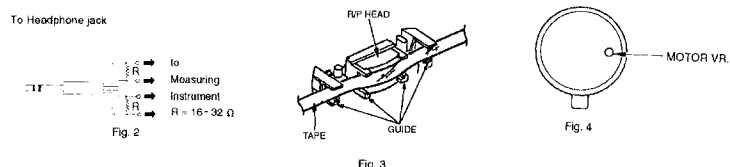
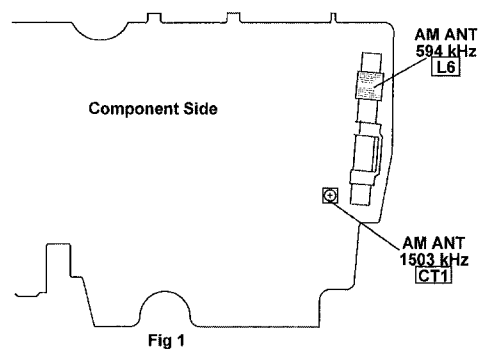


Standard value: $100 \pm 7\text{kHz}$

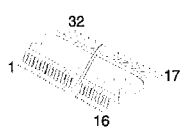
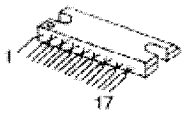
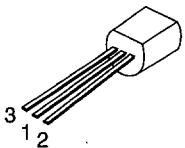
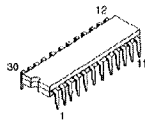
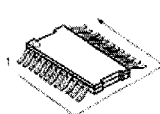
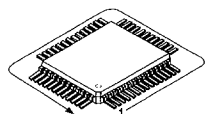
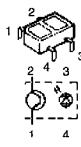
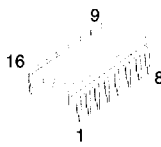
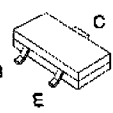
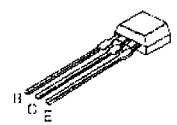
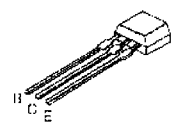
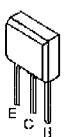
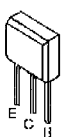
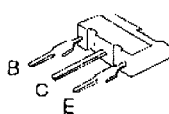
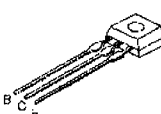
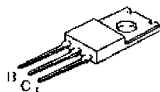
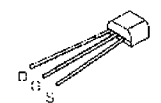
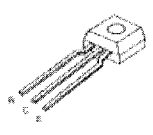
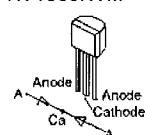
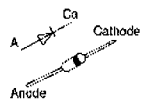
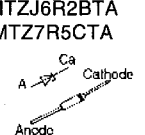
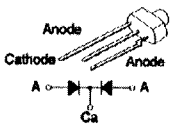
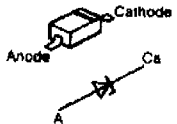
12.2. CD Section

Alignment is unnecessary for CD section of this unit.

12.2.1. Alignment Points



13 Type Illustration of IC's, Transistors and Diodes

TA2008AN (24P) LC72131D (22P) BA5948FPE2 (28P) 	LA4601 	S81350HG-Z (3P) S-80733ANY-Z (3P) 	LC75342 	AN8837SBE1(28P) 	MN662790RSC (80P) MN101C38AAD3 (100P) 
ON2180RLC 1 	BA7755A (5P) 	AN7317 	2SA1037AKSTX 	2SC1740SRTA 2SC1740SLNRT 2SD2470TP RVTDTA143XST RVTDTA144EST RVTDTA114YST RVTDTA143TST RVTDTA143XST 	2SC1741ASTPR RVTDTA114EST 
2SA1515STPQ 2SD1450RTA 2SC1741ASTPR 2SA854STPQ 		2SB1240RTV2 	2SA933SSTA 	2SB1566E 	2SJ498CTA 
2SC3311ARTA 	KV1520NT1-2 KV1360NTM 	RVD1SS133TA 1SR35400V MA165TA 	MTZJ12BTA MTZJ5R1BTA MTZJ9R1BTA MTZJ6R2BTA MTZ7R5CTA 	SPR325MVWT31 	MA8056MTX 

14 Terminal Function Of IC's

• IC701 (AN8837SBE1) 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 1
5	PDB	I	Focus signal input 2
6	LPD	I	APC Amp. Input
7	LD	O	APC Amp. Output
8	RF	O	RF addition output
9	RFIN	O	RF signal input
10	CSBRT	-	Capacitor for OFTR connection terminal
11	CEA	-	HPF Amp.
12	BDO	O	BDO output
13	LDON	-	APC control
14	GND	-	Ground
15	RFDET	O	NRFDET output
16	CROSS	O	CROSS output
17	OFTR	O	OFTR output
18	VDET	O	VDET output
19	ENV	O	3 TENV output
20	EMOFF	-	ENV control
21	TEBPF	I	VDET input
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	-	TBAL control
28	FBAL	-	FBAL control

• IC702 (MN662790RSC) Servo Processor/Digital Processor/Digital Filter/D/A Converter

Pin No.	Mark	I/O	Function
1	BCLK	O	N.C.
2	LRCK	O	N.C.
3	SRDATA	O	N.C.
4	DVDD1	I	Power supply input (for digital circuit)
5	DVSS1	I	GND (for digital circuit)
6	TX	O	Digital audio interface signal output (Latches data at first transition)
7	MCLK	I	Microprocessor command clock signal input
8	MDATA	I	Microprocessor command data signal input
9	MLD	I	Microprocessor command load signal input
10	SENSE	O	Sense signal output (OFT,FESL,MAGEND,NAJEND,POSAD,SFG) (Not used, open)
11	/FLOCK	O	Focus servo feeding signal output ("L": Feed)
12	/TLOCK	O	Tracking servo feeding signal output ("L": Feed)
13	BLKCK	O	Sub-code block clock signal output (BLKCKf = 75Hz during normal playback)
14	SQCK	I	External clock signal input for sub-code Q resistor
15	SUBQ	O	Sub-code Qcode output
16	DMUTE	I	Muting input ("H": mute)
17	STAT	O	Status signal output (CRC,CUE,CLVS,TTSTVP,FCLV,SQC)
18	/RST	I	Reset signal input

Pin No.	Mark	I/O	Function
19	SMCK	O	1/2-divided clock signal of crystal oscillating at MSEL = "H" (fSMCK = 8.4672 MHz) 1/4-divided clock signal of crystal oscillating at MSEL = "L" (fSMCK = 4.2336 MHz)
20	CSEL	I	Frequency Selection Terminal H = 33.8688 MHz; L = 16.9344 MHz
21	TRV	O	N.C.
22	TVD	O	Traverse drive output
23	PC	O	Spindle motor ON output ("L": ON)
24	ECM	O	Spindle motor drive signal output (forced mode output)
25	ECS	O	Spindle motor drive signal output (servo error signal output)
26	KICK	O	N.C.
27	TRD	O	Traverse drive output
28	FOD	O	Focus drive output
29	VREF	I	D/A (drive) output (TVD,ECS,TRD,FOD,FBAL,TBAL) Reference voltage input
30	FBAL	O	Focus balance adjustment output
31	TBAL	O	Tracking balance adjustment output
32	FE	I	Focus error signal input (analog input)
33	TE	I	Tracking error signal input (analog input)
34	RFENV	I	RF envelope signal input
35	VDET	I	Vibration detection signal input ("H": detection)
36	OFT	I	Off-track signal input ("H": off track)
37	TRCRS	I	Track cross signal input
38	/RFDET	I	RF detection signal input ("L": detection)
39	BDO	I	Dropout signal input ("H": Dropout)
40	LDON	O	Laser on signal input ("H": ON)
41	PLL2	I/O	N.C.
42	DSL2	O	Tracking Offset alignment output/DSL Balance Output (DA Output)
43	WVEL	O	N.C.
44	ARF	I	RF signal input
45	IREF	I	Reference current input
46	DRF	I	DSL bias terminal (Not used, open)
47	DSL2	I/O	DSL loop filter terminal
48	PLL2	I/O	PLL loop filter terminal
49	VCOF	I/O	VCO loop filter terminal
50	AVDD2	I	Power supply input (for analog circuit)
51	AVSS2	I	GND (for analog circuit).
52	EFM	O	EFM signal output
53	PCK	O	PLL extraction clock output (fPCK = 4.321 MHz during normal playback)
54	VCOF2	I/O	VCO loop filter for 33.8688 MHz conversation terminal for 16.9344 MHz crystal mode, must use other circuit
55	SUBC	O	Sub-code serial data output
56	SBCK	I	Clock input for sub-code serial data
57	VSS	I	GND
58	X1 IN	I	Crystal oscillating circuit input (f = 16.9344MHz)
59	X2 OUT	O	Crystal oscillating circuit input (f = 16.9344MHz)
60	VDD	I	Power supply input (for oscillating circuit)
61	BYTCK	O	Byte clock output
62	/CLDCK	O	Sub-code frame clock signal output (fCLDCK = 7.35 kHz during normal playback)
63	FCLK	O	Crystal frame clock signal output (fCLK = 7.35 kHz, double = 14.7 kHz)
64	IPFLAG	O	Interpolation flag output ("H": Interpolation)

Pin No.	Mark	I/O	Function
65	FLAG	O	Flag output
66	CLVS	O	Spindle servo phase synchronizing signal output ("H": CLV, "L": rough servo)
67	CRC	O	Sub-code CRC checked output ("H": OK, "L": NG)
68	DEMPH	O	De-emphasis ON signal output("H":ON)
69	RESY	O	Frame re-synchronizing signal output
70	IOSEL	I	Mode Switching Terminal
71	/TEST	I	Test input
72	AVDD1	I	Power supply input (for analog circuit)
73	OUTL	O	Left channel audio signal output
74	AVSS1	I	GND
75	OUTR	O	Right channel audio signal output
76	RSEL	I	RF signal polarity assignment input (at "H" level, RSEL="H", at "L" level, RSEL="L")
77	IOVOD	I	5V supply input
78	PSEL	I	Test terminal (connected to Gnd)
79	MSEL	I	SMCK oscillating frequency designation input("L":4.2336MHz,"H":8.4672MHz)
80	SSEL	I	SUBQ output mode select ("H": Q-code buffer mode)

• IC703 (BA5948FPE2) Focus Coil/Tracking Coil/Traverse Motor/Spindle Motor Drive

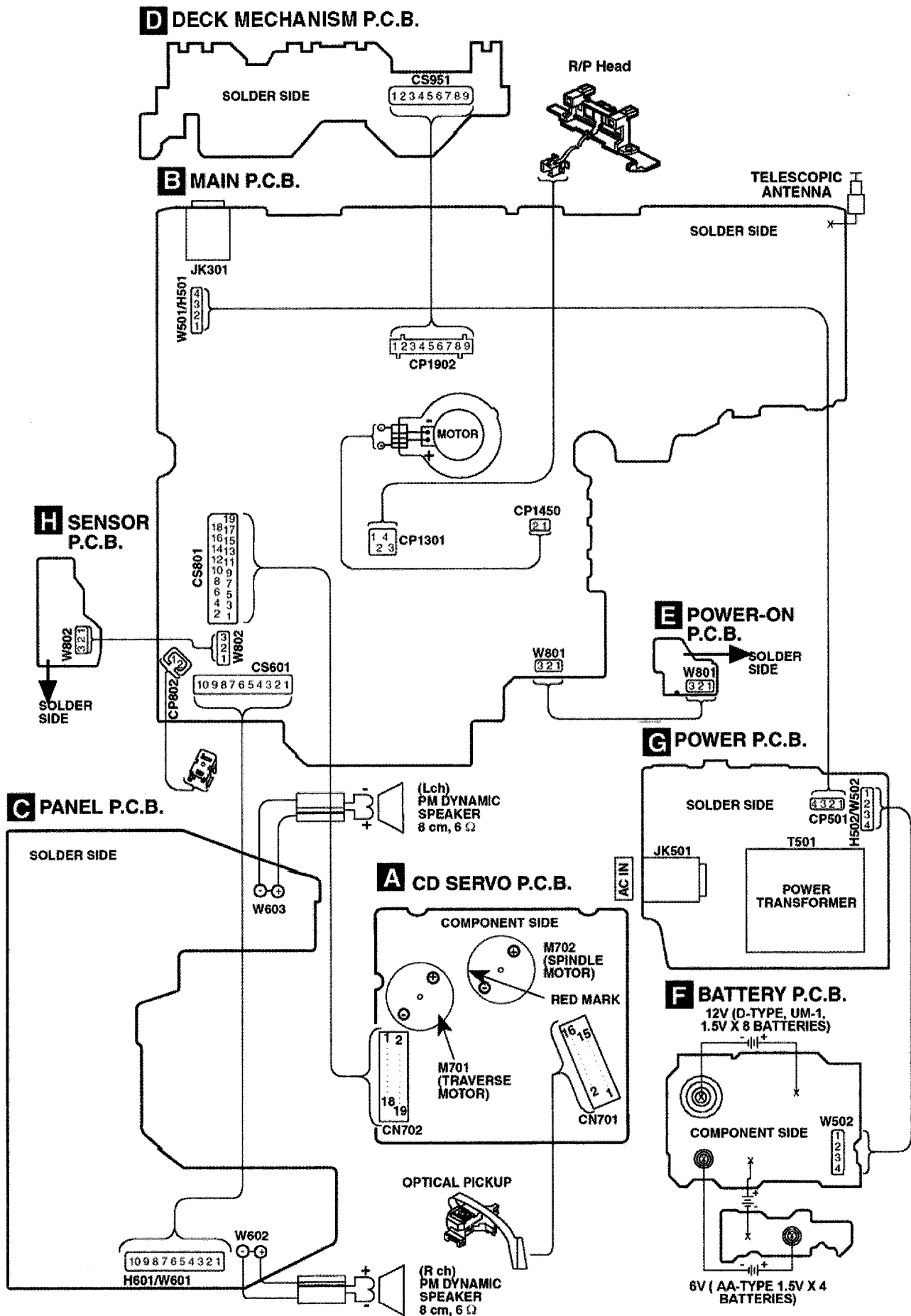
Pin No.	Mark	I/O	Function
1	IN2	I	Motor driver (2) input
2	PC2	I	Turnable motor drive signal ("L": ON)
3	IN1	I	Motor driver (1) input
4	PC1	I	Traverse motor drive signal ("L": ON)
5	NC	-	Not used
6	NC	-	Not used
7	NC	I	Not used
8	NC	-	Not used
9	PGND1	-	Ground connection (1) for driver
10	PVCC1	I	Power supply (1) for driver
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	PVCC2	I	Power supply (2) for driver
20	PGND2	-	Ground connection (2) for driver
21	NC	-	Not used
22	NC	-	Not used
23	NC	-	Not used
24	NC	-	Not used
25	VCC	I	Power supply terminal
26	VREF	I	Reference voltage input
27	IN4	I	Motor driver (4) input
28	IN3	I	Motor driver (3) input

• IC801 (MN101C38AAD3) MICON

Pin No.	Mark	I/O	Function
1	COM3	O	LCD common output
2	COM2	O	LCD common output
3	COM1	O	LCD common output
4	COM0	O	LCD common output
5	VLC3	-	LCD bias
6	VLC2	-	LCD bias
7	VLC1	-	LCD bias
8	VDD	-	VDD +5V
9	OSC2	O	4.19 MHz Ceramic OSC output
10	OSC1	I	4.19 MHz Ceramic OSC input

Pin No.	Mark	I/O	Function
11	VSS	-	Ground
12	X1	I	32.768kHz OSC input
13	X0	O	32.768kHz OSC output
14	MMOD	I	Microprocessor mode set to "L"
15	VREF-	-	Analog reference ground
16	KEY1	A/D	Key input 1
17	KEY2	A/D	Key input 2
18	REG_1	I	Region setting 1
19	REG_2	I	Region setting 2
20	REG_3	I	Region setting 3
21	REG_4	I	Region setting 4
22	PDET	A/D	Power supply voltage detect
23	ADL_IN	A/D	Deck mechanism condition input
24	VREF+	O	+5 reference for A/D
25	NC	O	No connection
26	SUBQ	I	CD subcode data input
27	SQCK	O	CD subcode data clock
28	MBP1	O	Micro-P beat proof control output 1
29	MBP2	O	Micro-P beat proof control output 2
30	T_MUTE	O	Tuner mute
31	PLL DO	I	PLL if count input
32	/RESET	I	System reset input
33	PLL DA	O	PLL data output
34	PLL CLK	O	PLL clock output
35	PLL CE	O	PLL chip enable output
36	BP	O	Beat proof for AM
37	/DMT	O	Tape mute output
38	BLKCK	I	CD subcode block clock input
39	RMT_IN	I	Remote control input
40	/VCCDET	I	Laser on signal input ("H": ON)
41	CDOP_SW	I	CD open switch
42	PHOTO_I	I	Tracking Offset alignment output/DSL Balance Output (DA Output)
43	MOTOR_L	O	N.C.
44	REC_H	O	RF signal input
45	PL	O	Reference current input
46	SP_CLK	O	DSL bias terminal (Not used, open)
47	SP_DAT	O	DSL loop filter terminal
48	ST_LTH	O	PLL loop filter terminal
49	CD_L	O	VCO loop filter terminal
50	MUTE_A	O	Power supply input (for analog circuit)
51	MCLK	O	GND (for analog circuit).
52	MDATA	O	EFM signal output
53	MLD	O	PLL extraction clock output (fPCK = 4.321 MHz during normal playback)
54	STAT	I	CD status input
55	CD_RESET	O	CD RST output
56	RESET_SW	I	CD limit SW input for the most inner point
57	CD_OPEN	O	CD open input
58	CD_CLOSE	O	CD close input
59	PCNT	O	Power control output
60	REM_STBY	I	Remote standby
61	AI_JOG1	I	AI JOG input 1
62	AI_JOG2	I	AI JOG input 2
63	EDATA	I/O	EEPROM data
64	ECLK	O	EEPROM clock
65	ECS	O	EEPROM chip select
66	UNUSED	I	Connect to GND
67	CD_LCLOSE	O	CD CLOSE SLOW
68	CD_LOPEN	O	CD OPEN SLOW
69	SV	O	Sound virtualizer
70	SEG31	I	Connect to GND
71~100	SEG30~SEG1	O	LCD segment drive output

15 Wiring Connection Diagram



16 Schematic Diagram

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

Notes:

S601 :	FF / FORWARDSWITCH
S602 :	REW / REVERSE SWITCH
S603 :	TAPE / CD STOP SWITCH
S604 :	POWER SWITCH
S605 :	PRESET EQ SWITCH
S606 :	VOLUME DECREASE SWITCH
S607 :	VOLUME INCREASE SWITCH
S621 :	CD OPEN / CLOSE SWITCH
S622 :	MEMORY / CLEAR SWITCH
S623 :	CLOCK / TIMER SWITCH
S624 :	TIMER PLAY / REC SWITCH
S625 :	CD REC MODE SWITCH
S626 :	CD PLAY / PAUSE SWITCH
S627 :	TUNER BAND
S628 :	TAPE PLAY
S629 :	REC/REC PAUSE
S630 :	DECK EJECT SWITCH
S701 :	RESET SWITCH
S951 :	MODE SWITCH
S952 :	CASSETTE TAPE DETECT SWITCH
S954 :	FORWARD SIDE RECORD PREVENTION TAB DETECT SWITCH

Battery current:

- Volume minimum
 - 0.27 A (FM)
 - 0.26 A (AM)
 - 0.35 A (TAPE PLAYBACK)
 - 0.38 A (CD PLAYBACK)
- Volume maximum
 - 0.95 A (FM)
 - 0.70 A (AM)
 - 0.95 A (TAPE PLAYBACK)
 - 1.47 A (CD PLAYBACK)

Signal line:

	: +B Line
	: FM/AM Signal Line
	: AM Signal Line
	: AM OSC Signal Line

	: Main Signal Line
	: FM Signal Line
	: Record Signal Line
	: CD Signal Line
	: Playback Signal Line

Measurement Instruction:

RADIO: AM - 74 dB/m, 30% Mod; FM - 60 dB/m, 30% Mod.

TAPE: 315 Hz, 0 dB

CD: 1 kHz, 0 dB

- 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.

< >	: FM	No Mark	: Tape
()	: AM	[]	: Standby
(())	: CD		

• Importance safety notice:

Components identified by $\triangle$ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistor), high-quality sound (capacitors), low-noise (resistor), 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.

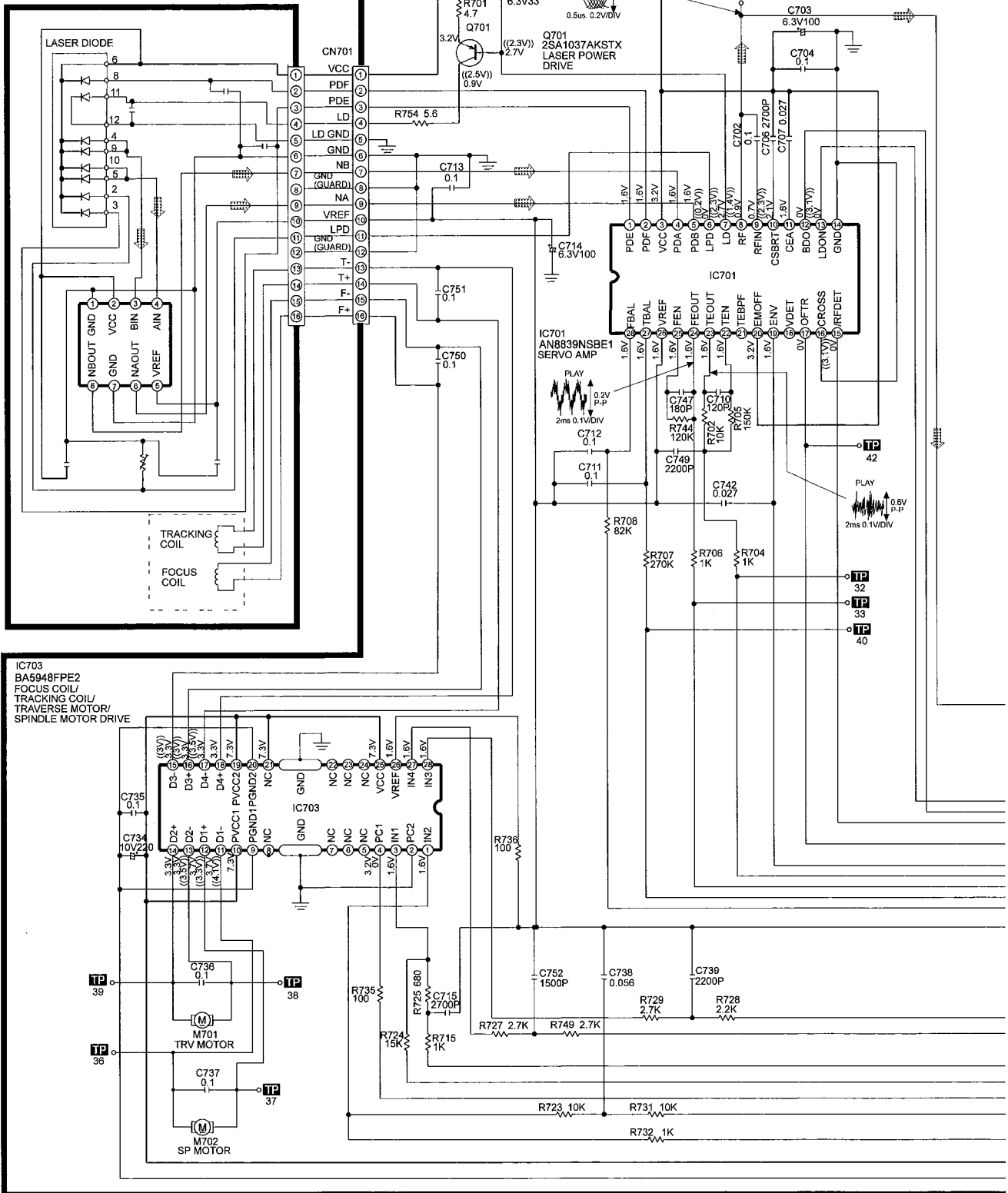
- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

SCHEMATIC DIAGRAM-1

A**CD SERVO CIRCUIT**

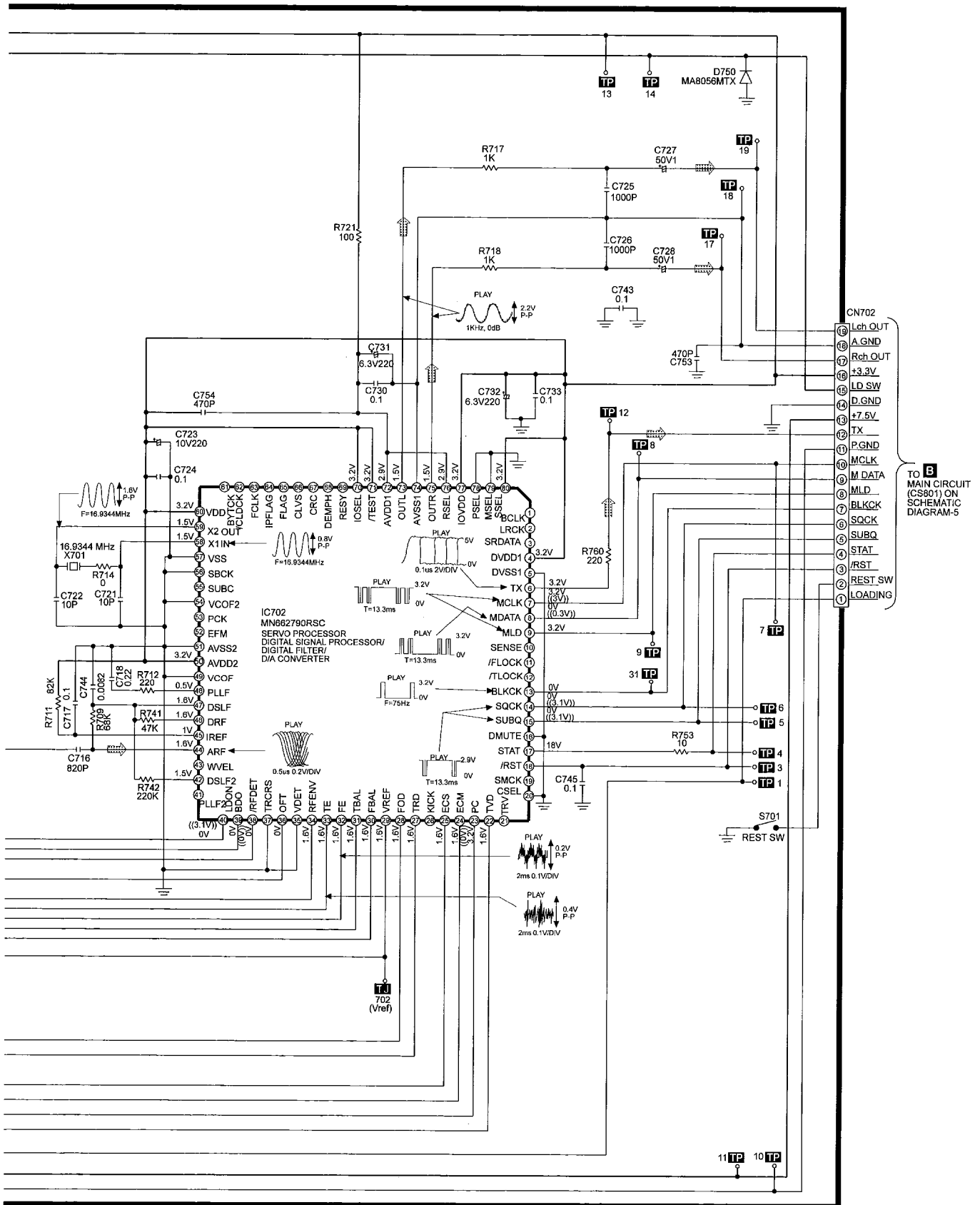
: + B Line

: CD Signal Line

OPTICAL PICKUP CIRCUIT

SCHEMATIC DIAGRAM-2

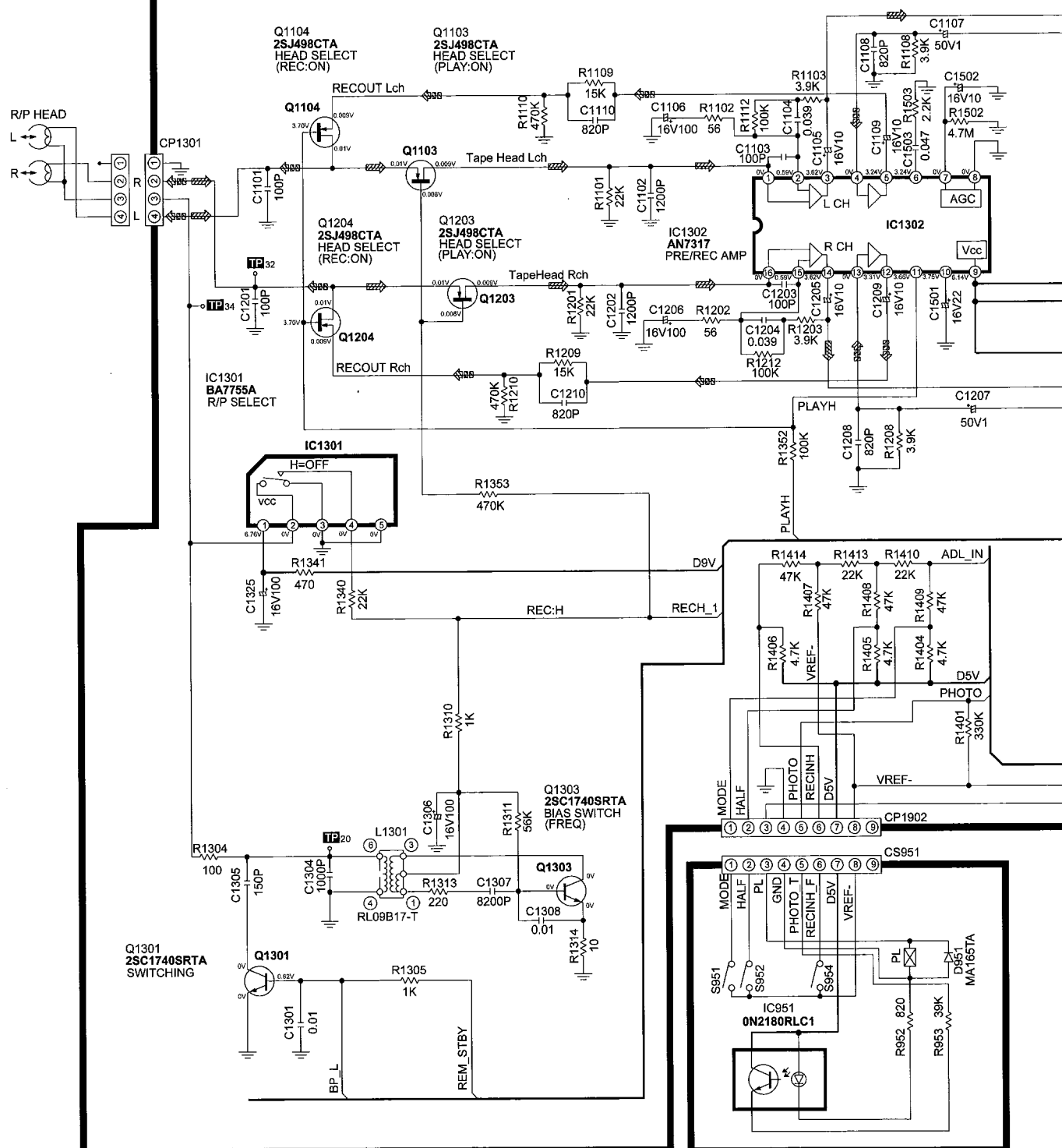
— : + B Line $\Rightarrow$: CD Signal Line



SCHEMATIC DIAGRAM-3

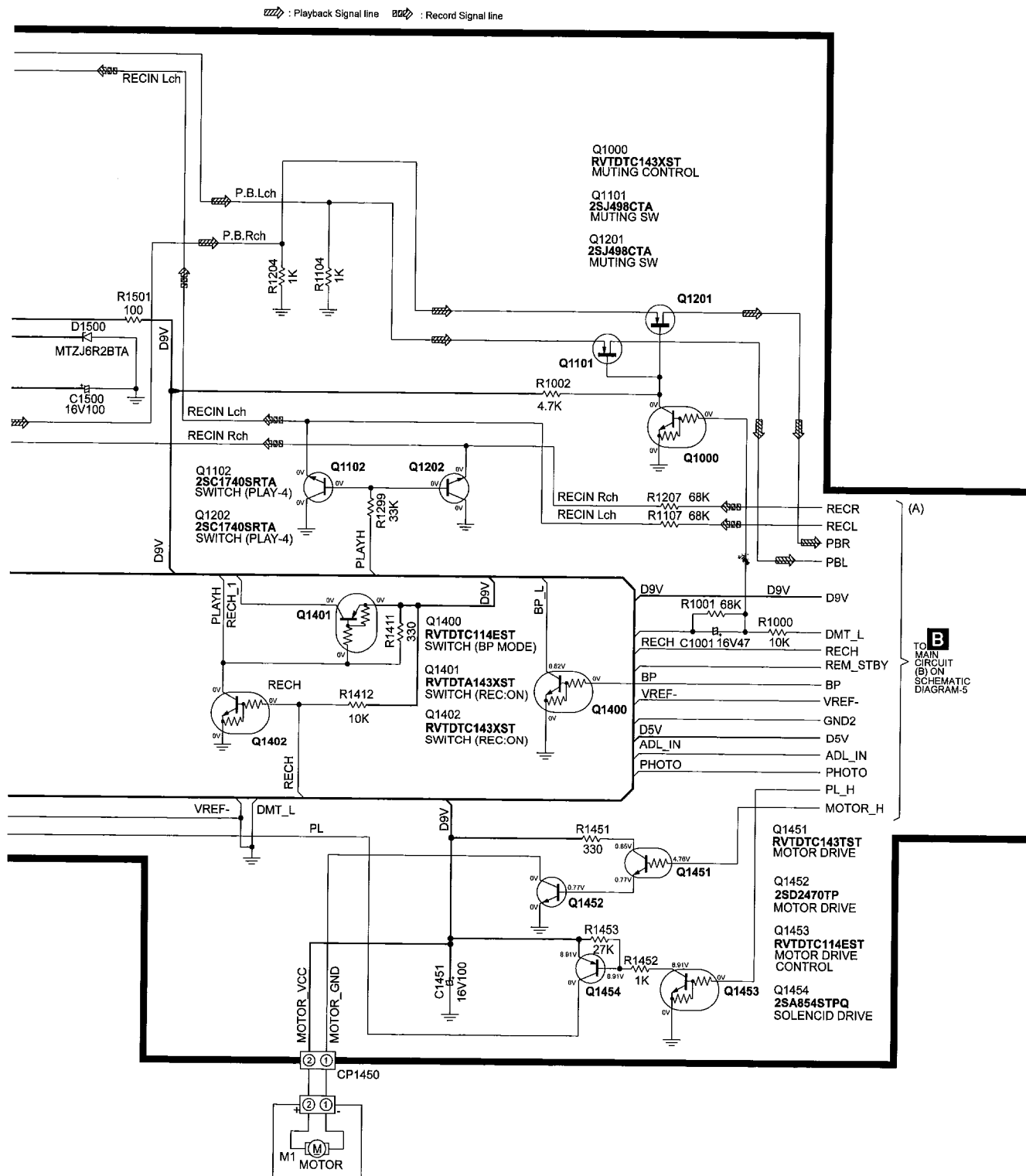
B MAIN (DECK) CIRCUIT

 : Playback Signal line  : Record Signal line



D DECK MECHANISM CIRCUIT

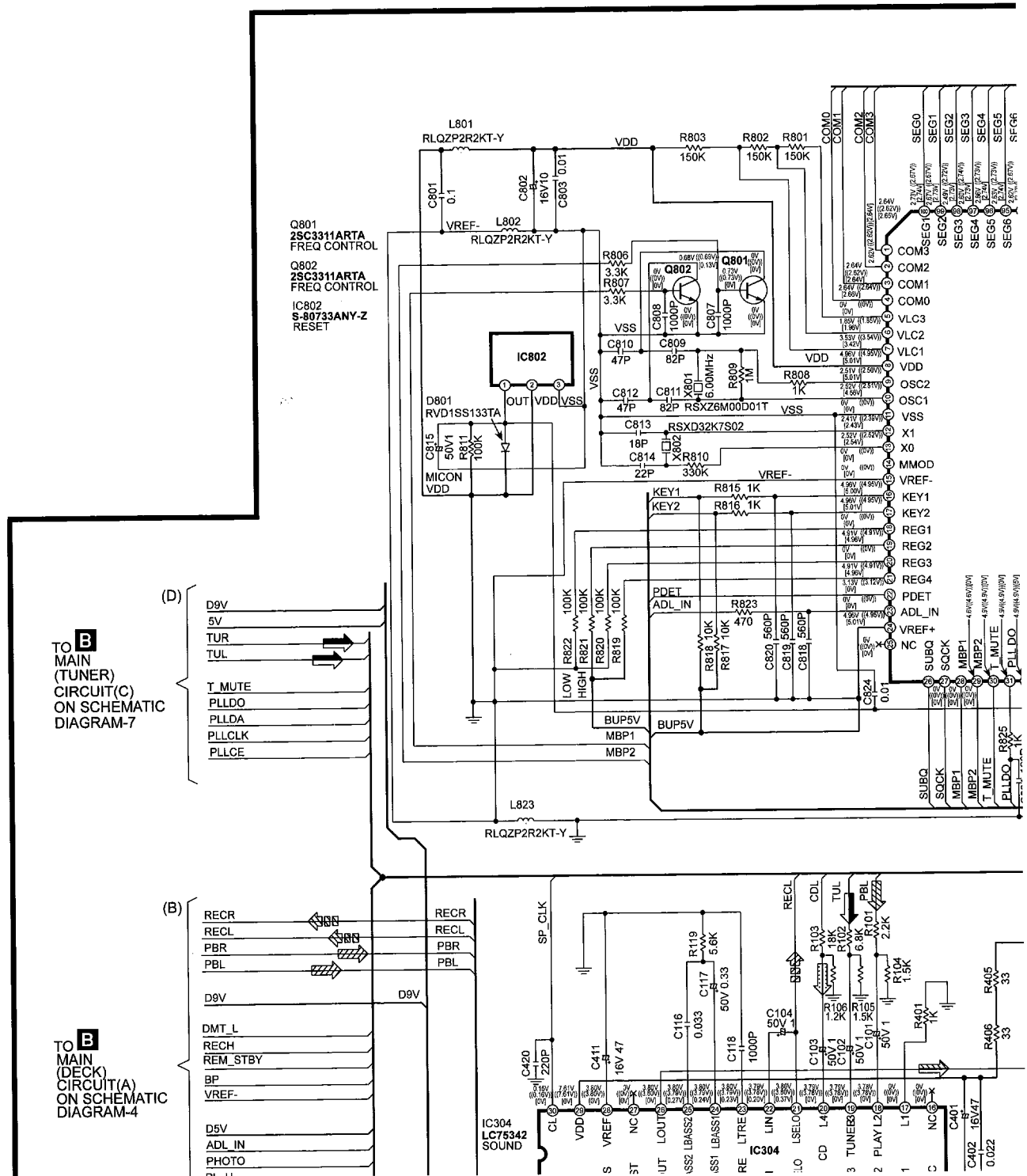
SCHEMATIC DIAGRAM-4



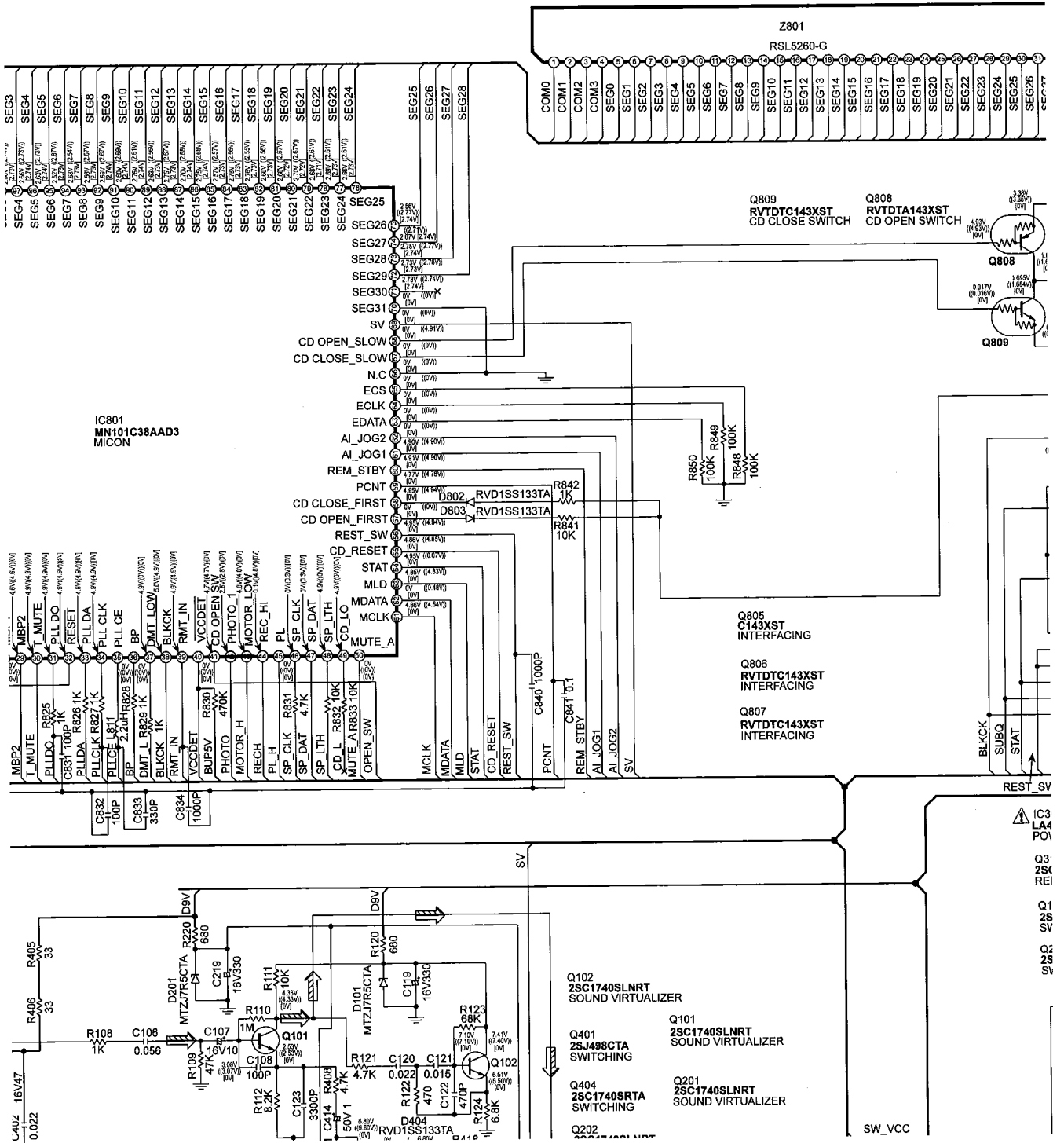
SCHEMATIC DIAGRAM-5

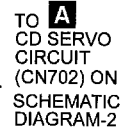
B MAIN CIRCUIT

— : +B line  : Playback Signal line  : Record Signal

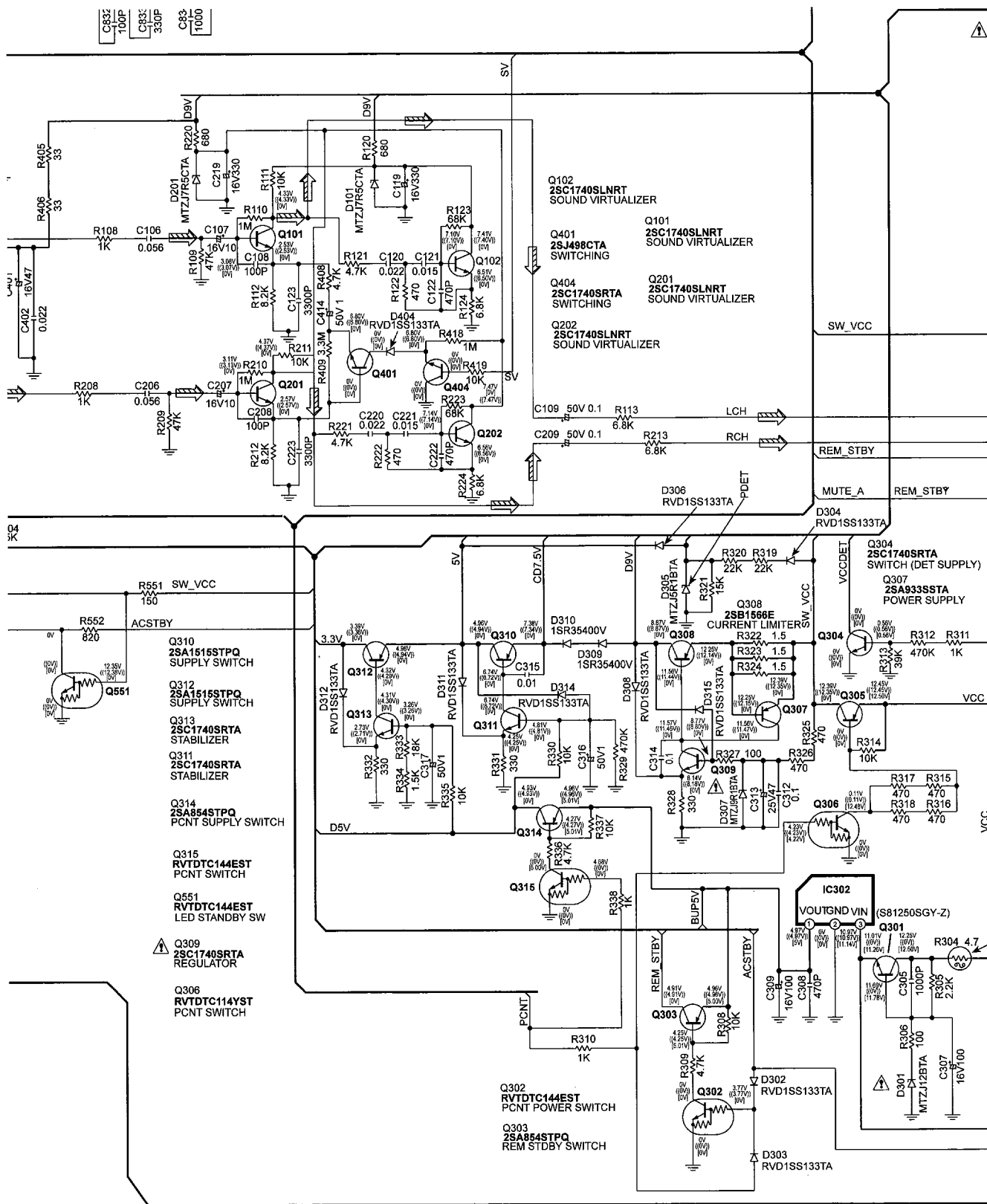


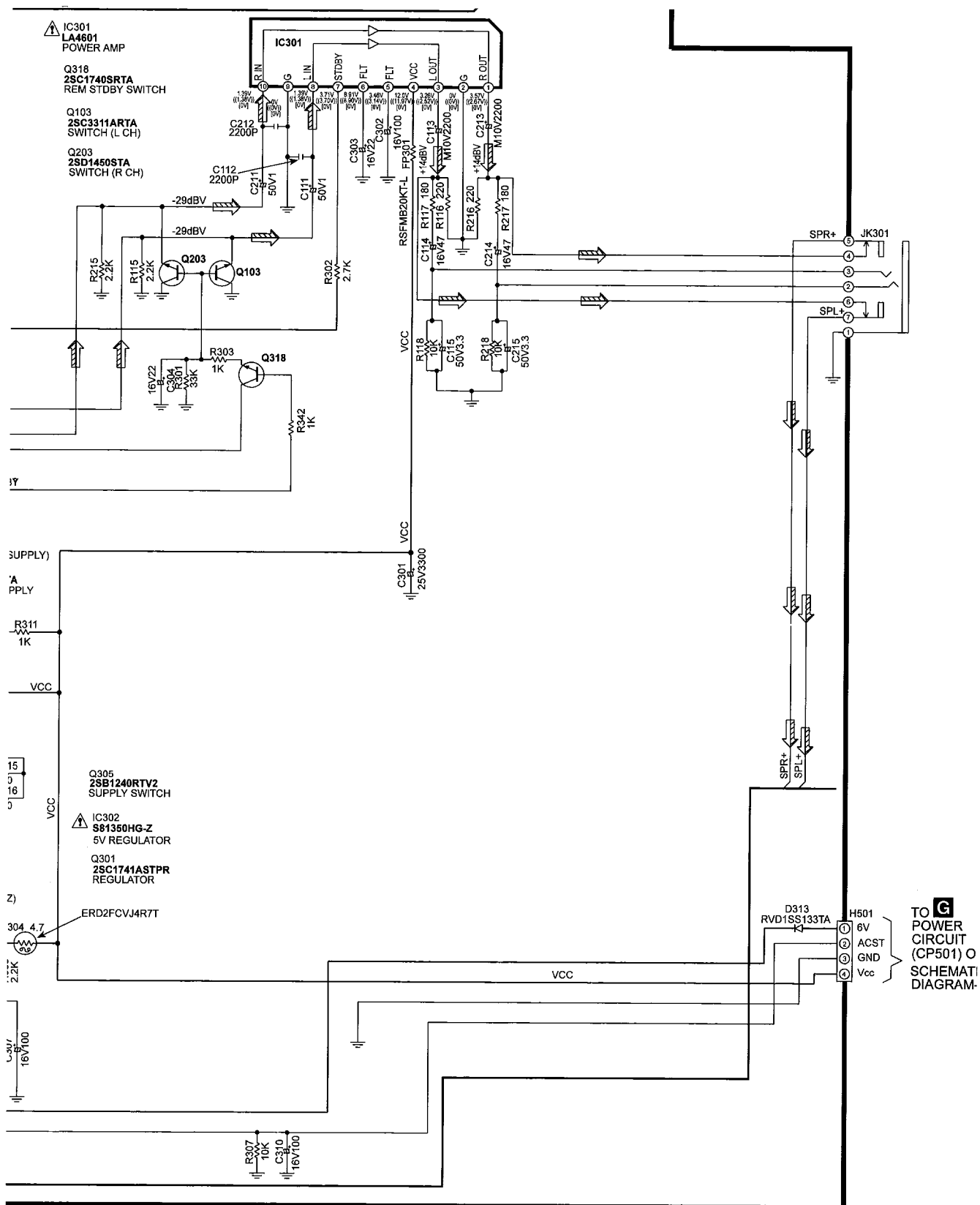
rd Signal line $\Rightarrow$: Main Signal line $\Rightarrow$: AM/FM Signal line $\Rightarrow$: CD Signal line



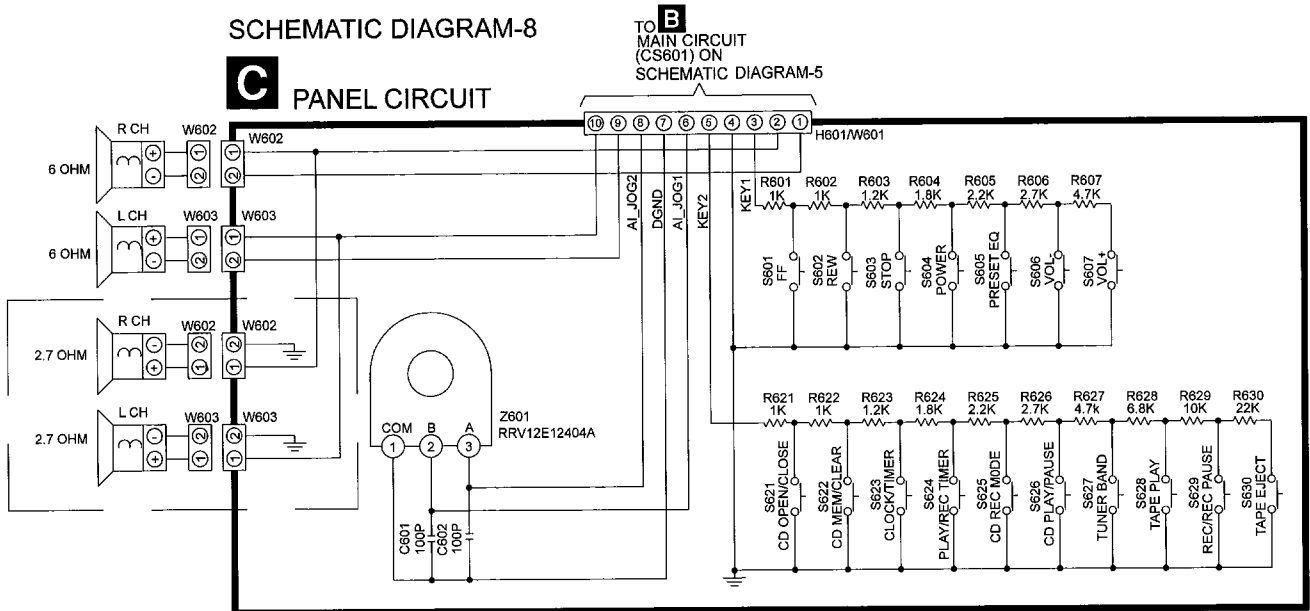
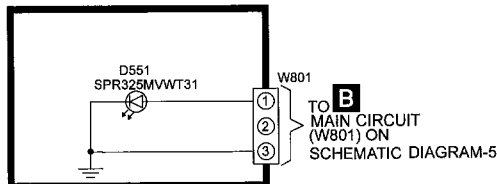
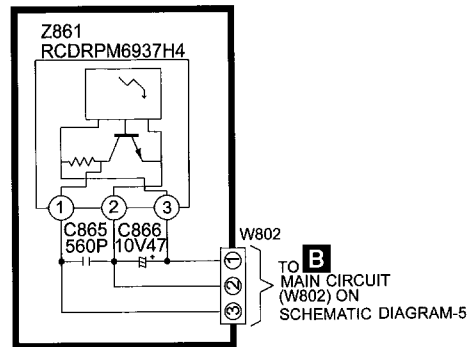
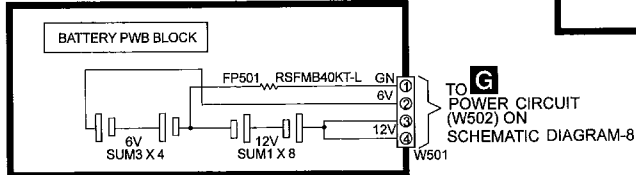
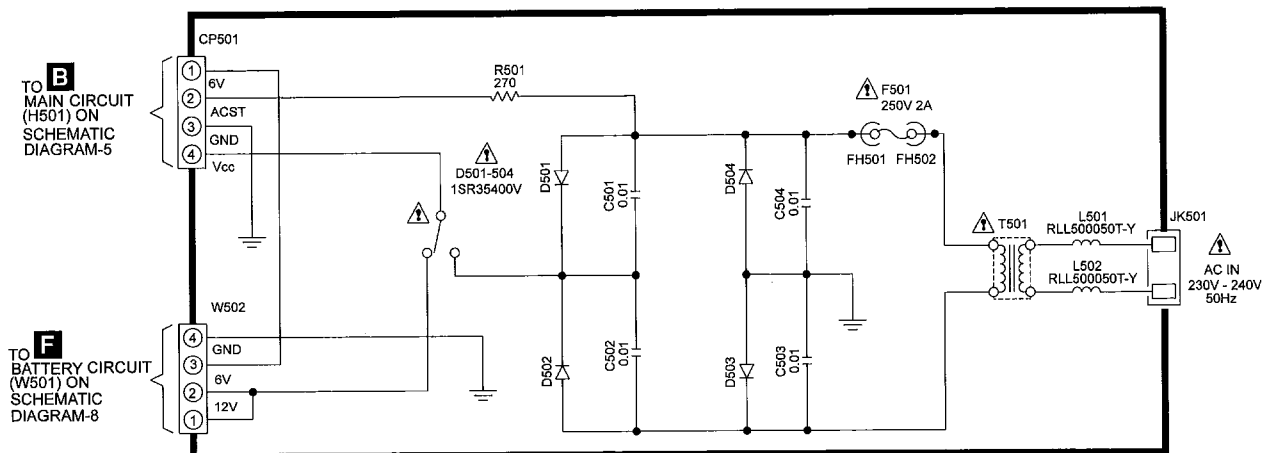








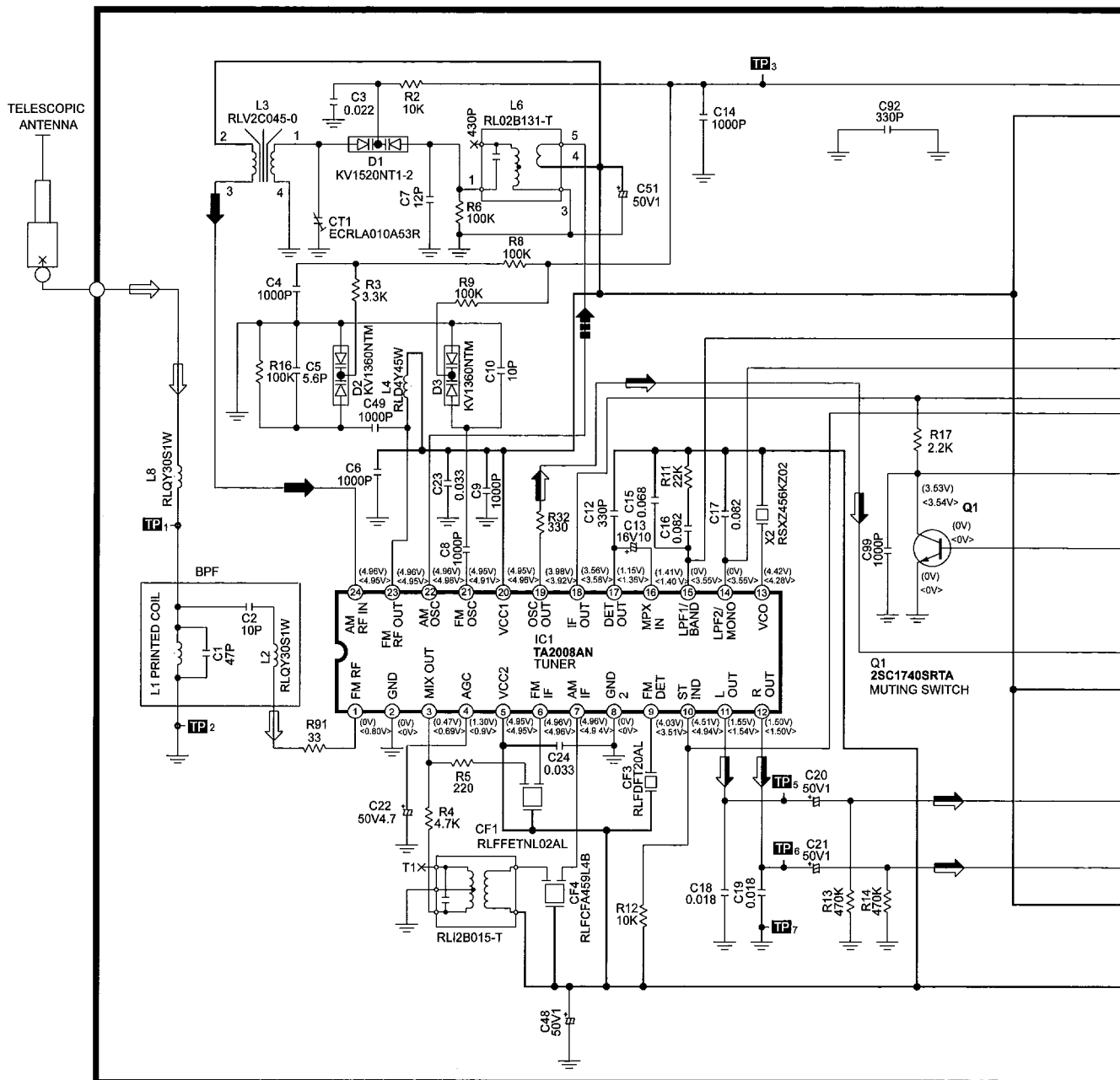
SCHEMATIC DIAGRAM-8

**E** POWER-ON CIRCUIT**H** SENSOR CIRCUIT**F** BATTERY CIRCUIT**G** POWER CIRCUIT

SCHEMATIC DIAGRAM-6

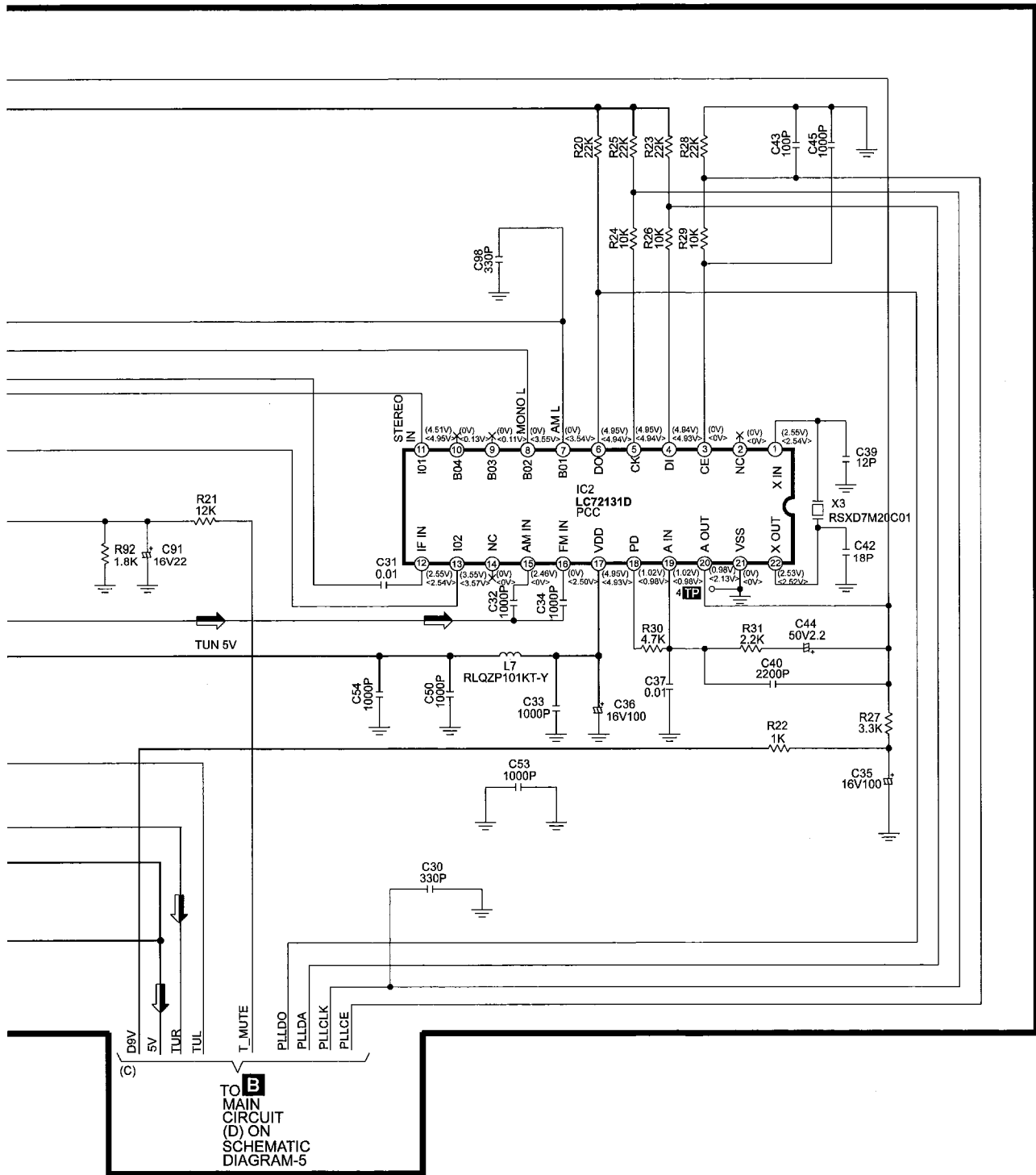
B MAIN (TUNER) CIRCUIT

 FM Signal line
 AM OSC Signal line
 AM/FM Signal line
 AM Signal line



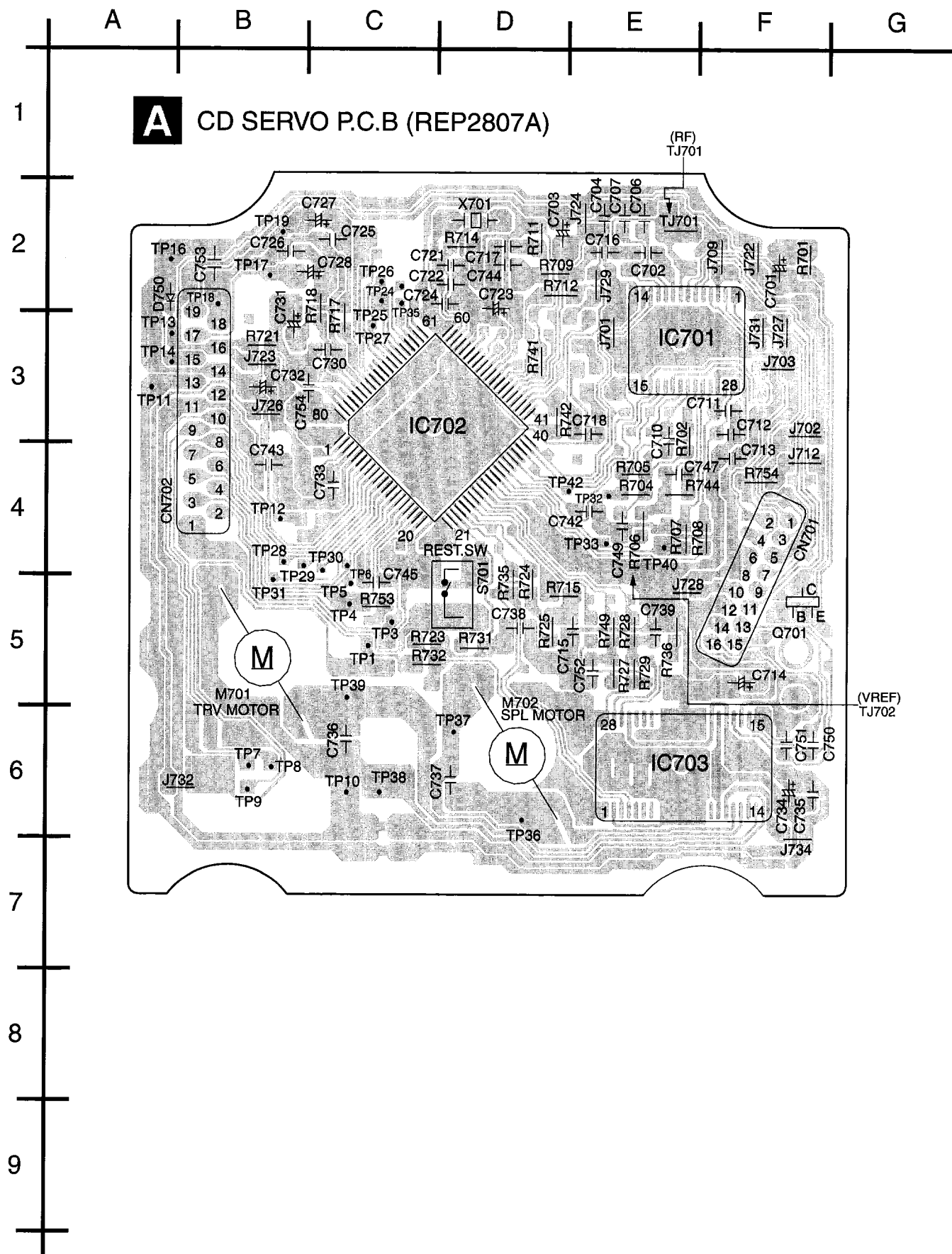
SCHEMATIC DIAGRAM-7

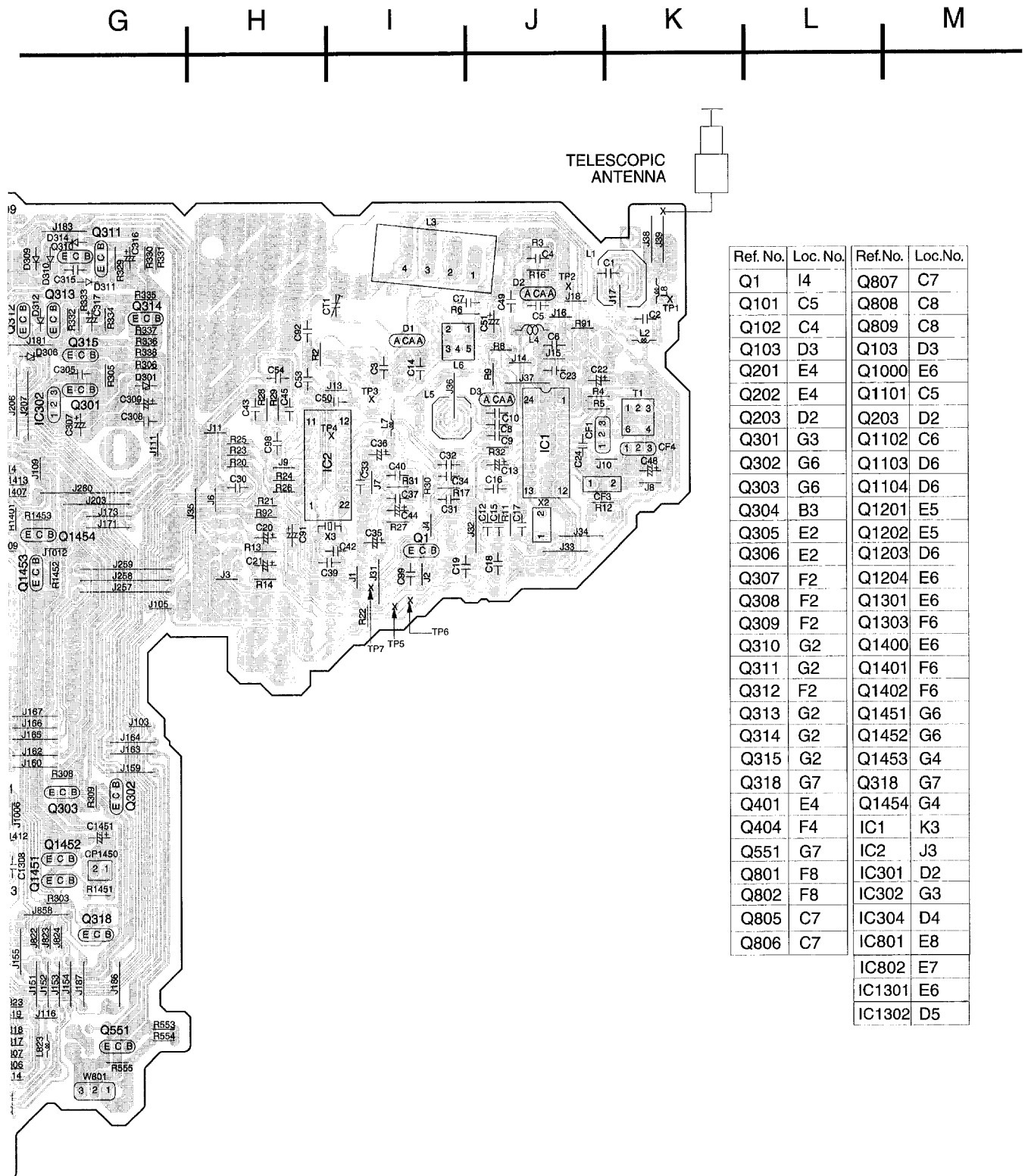
 FM Signal line
  AM OSC Signal line
  AM/FM Signal line
  AM Signal line



17 Printed Circuit Board

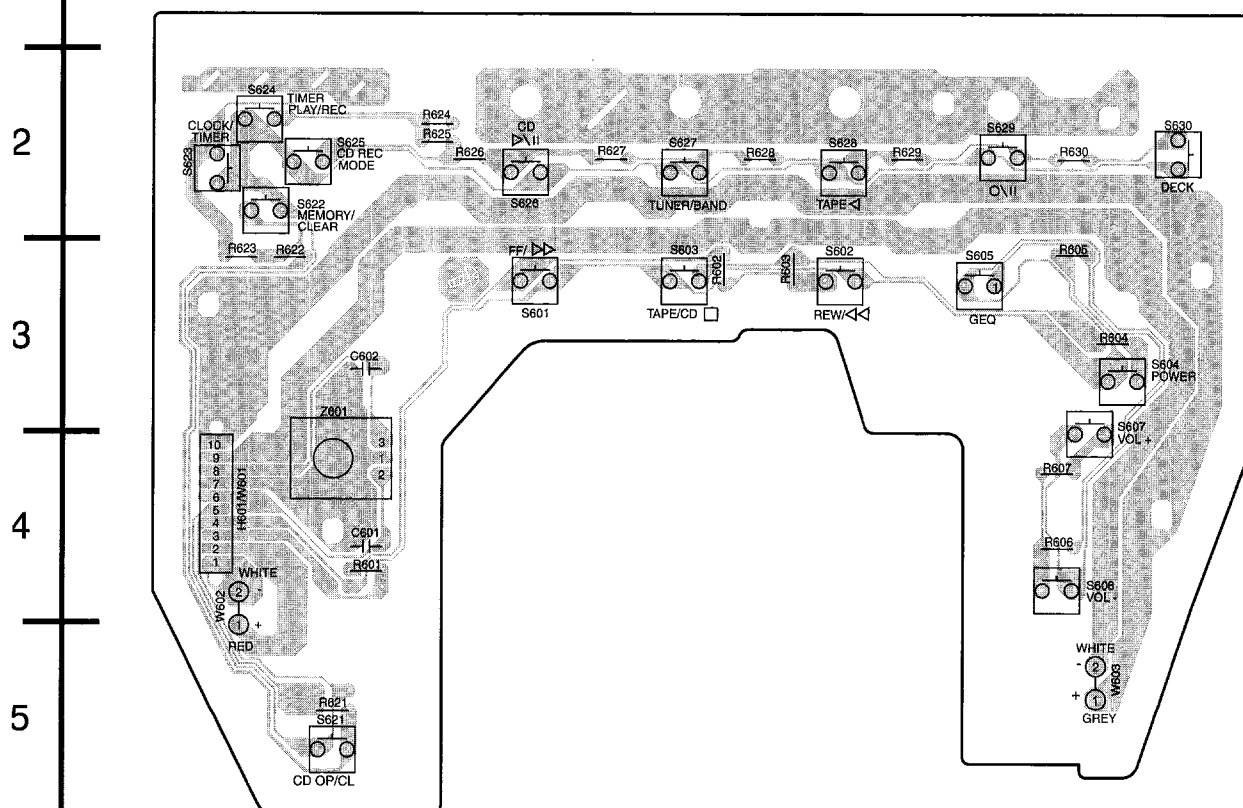
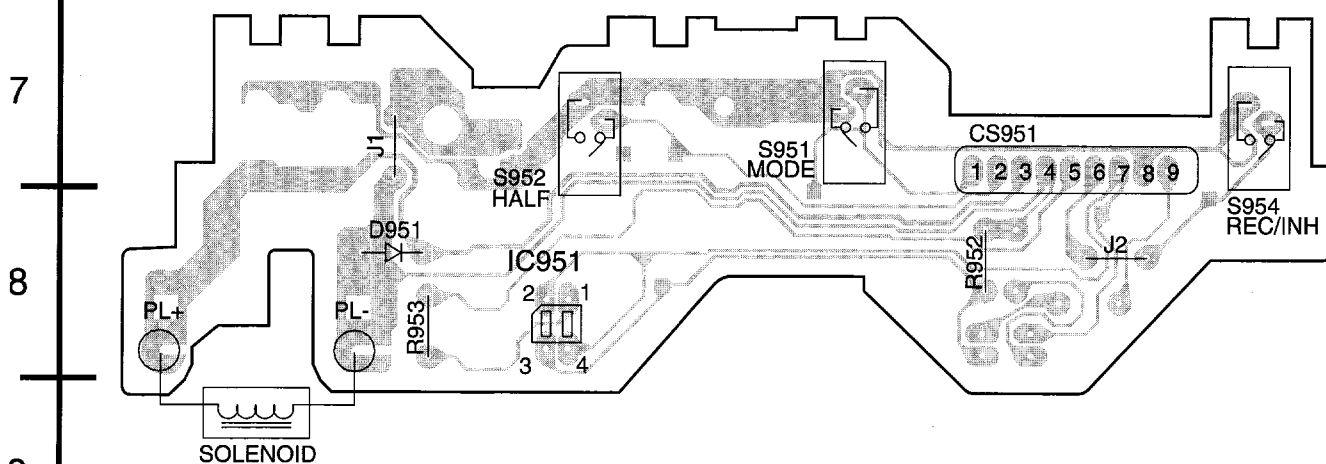
(This printed circuit board diagram may be modified at any time with the development of new technology.)

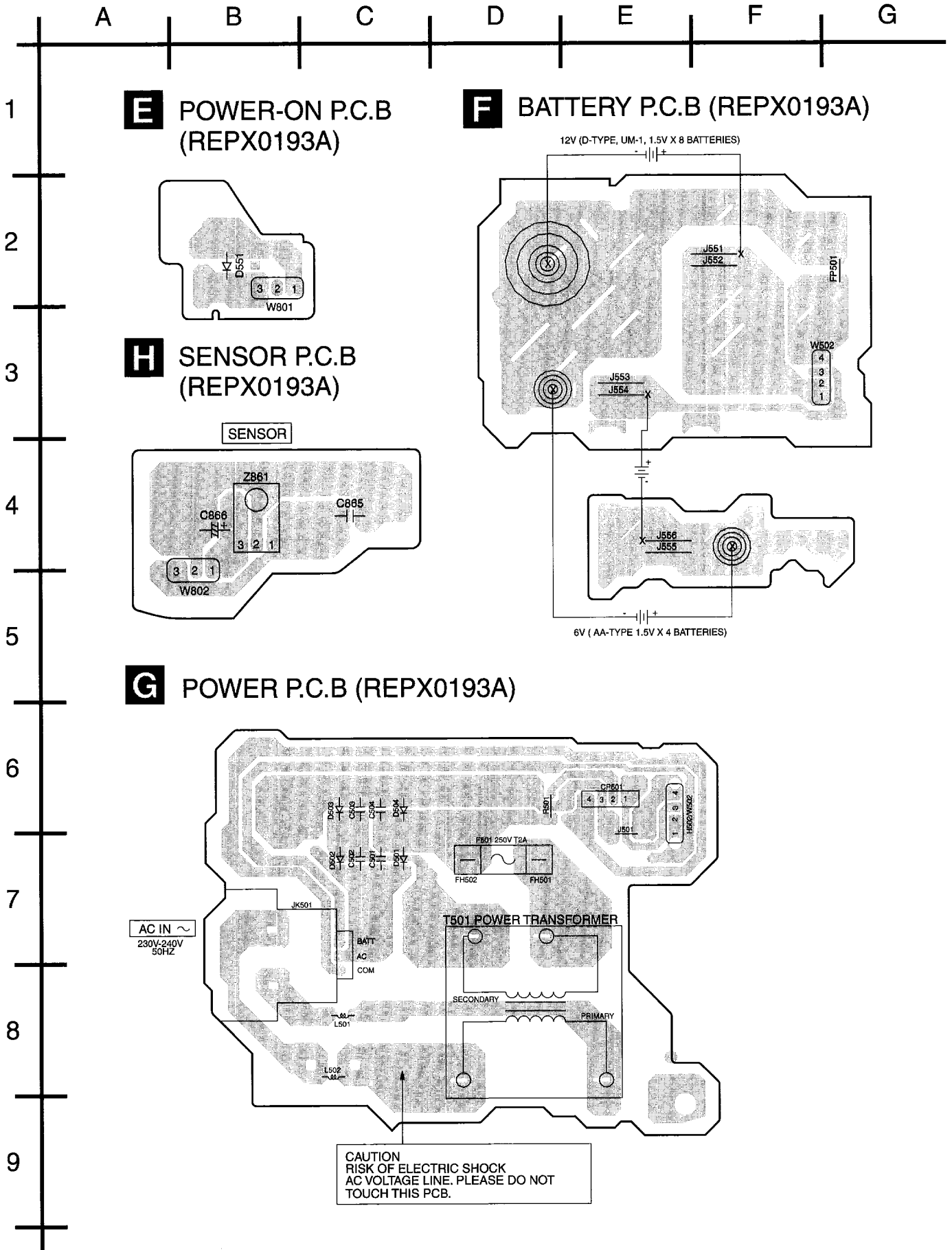




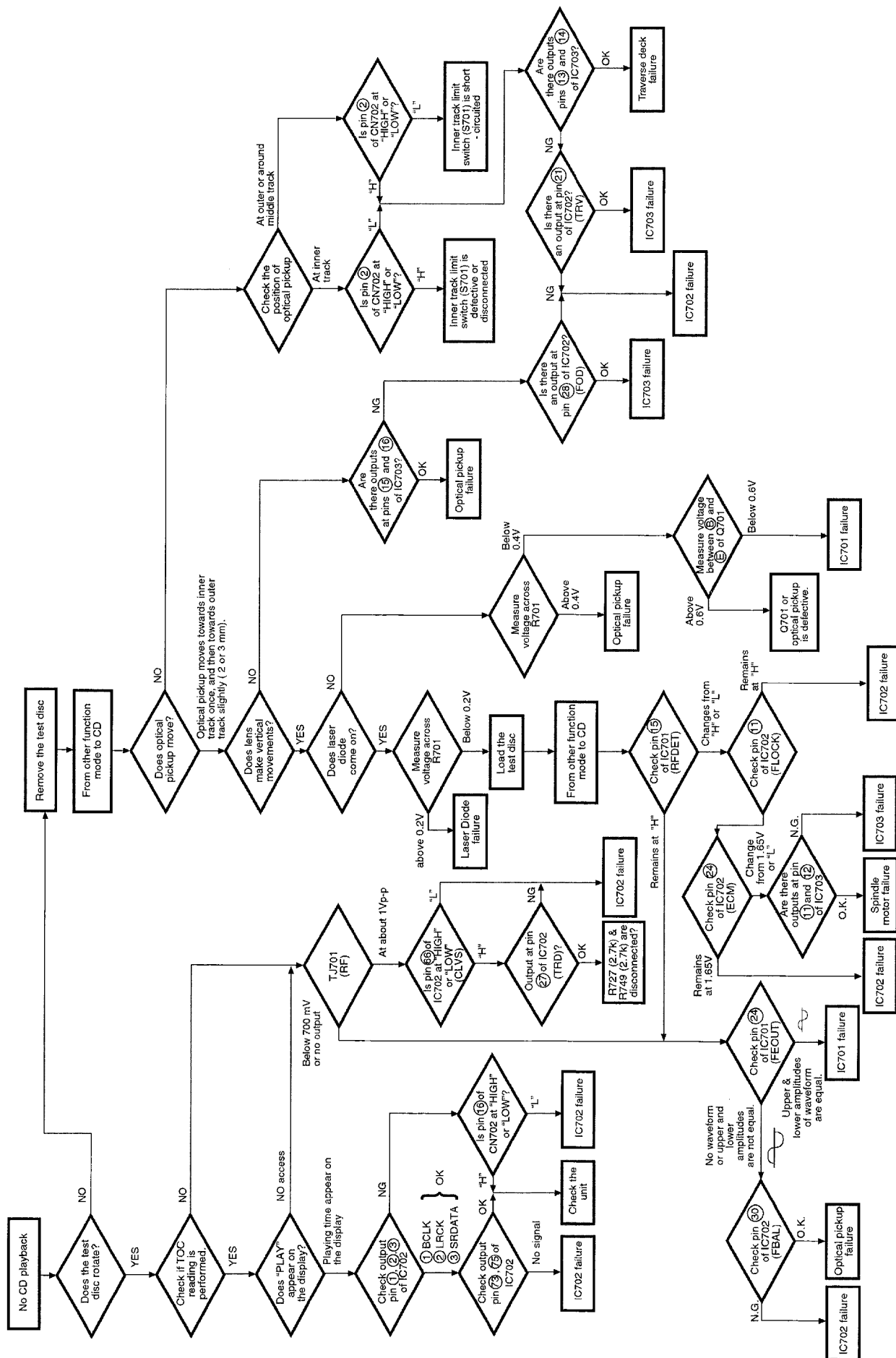
Ref. No.	Loc. No.	Ref.No.	Loc.No.
Q1	I4	Q807	C7
Q101	C5	Q808	C8
Q102	C4	Q809	C8
Q103	D3	Q103	D3
Q201	E4	Q1000	E6
Q202	E4	Q1101	C5
Q203	D2	Q203	D2
Q301	G3	Q1102	C6
Q302	G6	Q1103	D6
Q303	G6	Q1104	D6
Q304	B3	Q1201	E5
Q305	E2	Q1202	E5
Q306	E2	Q1203	D6
Q307	F2	Q1204	E6
Q308	F2	Q1301	E6
Q309	F2	Q1303	F6
Q310	G2	Q1400	E6
Q311	G2	Q1401	F6
Q312	F2	Q1402	F6
Q313	G2	Q1451	G6
Q314	G2	Q1452	G6
Q315	G2	Q1453	G4
Q318	G7	Q318	G7
Q401	E4	Q1454	G4
Q404	F4	IC1	K3
Q551	G7	IC2	J3
Q801	F8	IC301	D2
Q802	F8	IC302	G3
Q805	C7	IC304	D4
Q806	C7	IC801	E8
		IC802	E7
		IC1301	E6
		IC1302	D5

A B C D E F G

1 **C** PANEL P.C.B (REPX0195A)6 **D** DECK MECHANISM P.C.B (REPX0108E)



18 Troubleshooting Guide



19 Parts Location and Replacement Parts List

Note:

- Important safety notice:

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

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

When replacing any of 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 page31Precaution 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 value are in ohms, unless specified otherwise, 1K=1,000 (OHM).
- The marking (RTL) indicates that the Retention Time is limited for this item. 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 availability is dependant 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.
- Remote Control Unit: Supply period for three years from terminal of production.
- Reference for O/I book languages are as follows:

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

This diagram is an exploded view of a mechanical assembly, likely a watch movement, organized by a coordinate grid. The grid has columns labeled A through G and rows labeled 1 through 10. The assembly consists of numerous parts, each labeled with a numerical or alphanumeric code. Key components include:

- Top Section (Rows 1-4):** Features parts like 121, 122, 120, 101, 111, 103, 112, 127, 133-1, 133-2, 133, 104, 111, 103, 137, 134, 137, 137, 138, (MECHANISM P.C.B), CS951, S954, S952, and S951.
- Middle Section (Rows 5-7):** Includes parts 139, 130, 130-1, 129, 135, 135, 108, 123, 124, 126, 118, 115, 107, 132, 105, 119, 128, 116, 110, 117, 114, and 125.
- Bottom Section (Row 10):** Shows the base plate 139.

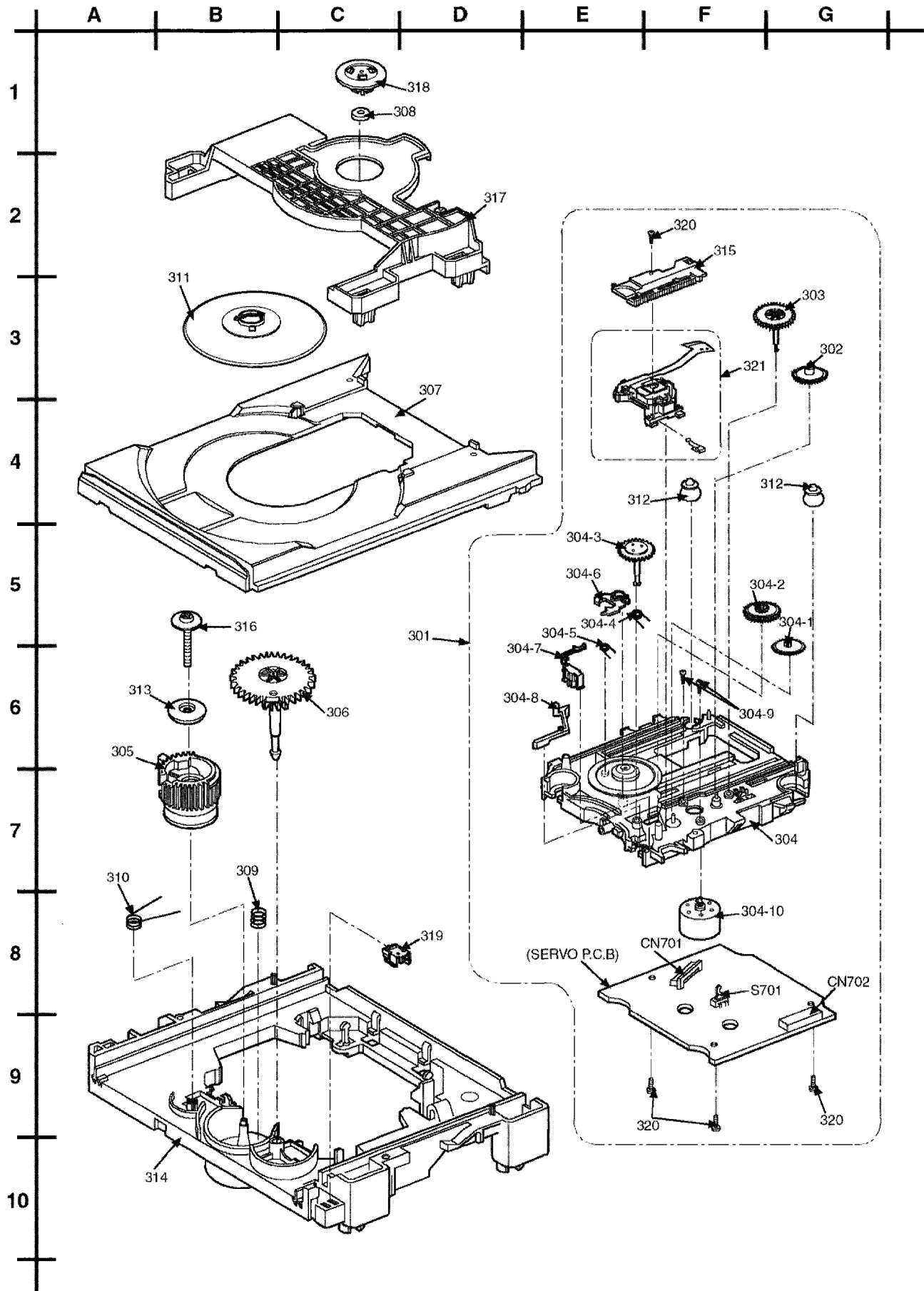
Dashed lines indicate the assembly path and alignment of the components. The coordinate grid is used to locate each part within the drawing area.

19.1.2. Deck Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	RED0062	HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026	MAIN GEAR	[M]
107	RDV0033-4	WINDING BELT	[M]
108	RDV0064	CAPSTAN BELT	[M]
110	RMB0312	TRIGGER LEVER SPRING	[M]
111	RMB0400	REEL SPRING	[M]
112	RMB0403	HEAD PANEL SPRING	[M]
113	RMB0404	BRAKE ROD SPRING	[M]
114	RMB0406	FR LEVER SP	[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 ASSY	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0049	FLYWHEEL 'F' ASS'Y	[M]
127	RXL0151	E-HEAD ARM ASS'Y	[M]
128	RXG0040	FF RELAY GEAR ASS'Y	[M]
129	RMK0283A-J	SUB-CHASSIS	[M]
130	RXL0124	PINCH ARM 'F' ASS'Y	[M]
130-1	RMB0401	PINCH ARM SPRING 'F'	[M]
132	RXL0126	WINDING ARM ASS'Y	[M]
133	RXQ0412	HEAD PANEL ASS'Y	[M]
133-1	RMB0405	FR ROD SPRING	[M]
133-2	RMM0132	FR ROD	[M]
134	RFPKXES50GCK	CAP MOTOR ASS'Y	[M]
135	RHD26022	MOTOR SCREW	[M]
136	XTW2+5L	HEAD BLOCK UNIT SCREW	[M]
137	XTW26+10S	SUB-CHASSIS SCREW	[M]
138	XYC2+JF17	PCB EARTH SCREW	[M]
139	RMK0294	MECHA CHASSIS	[M]

19.2. CD Loading Mechanism

19.2.1. CD Loading Mechanism Parts Location

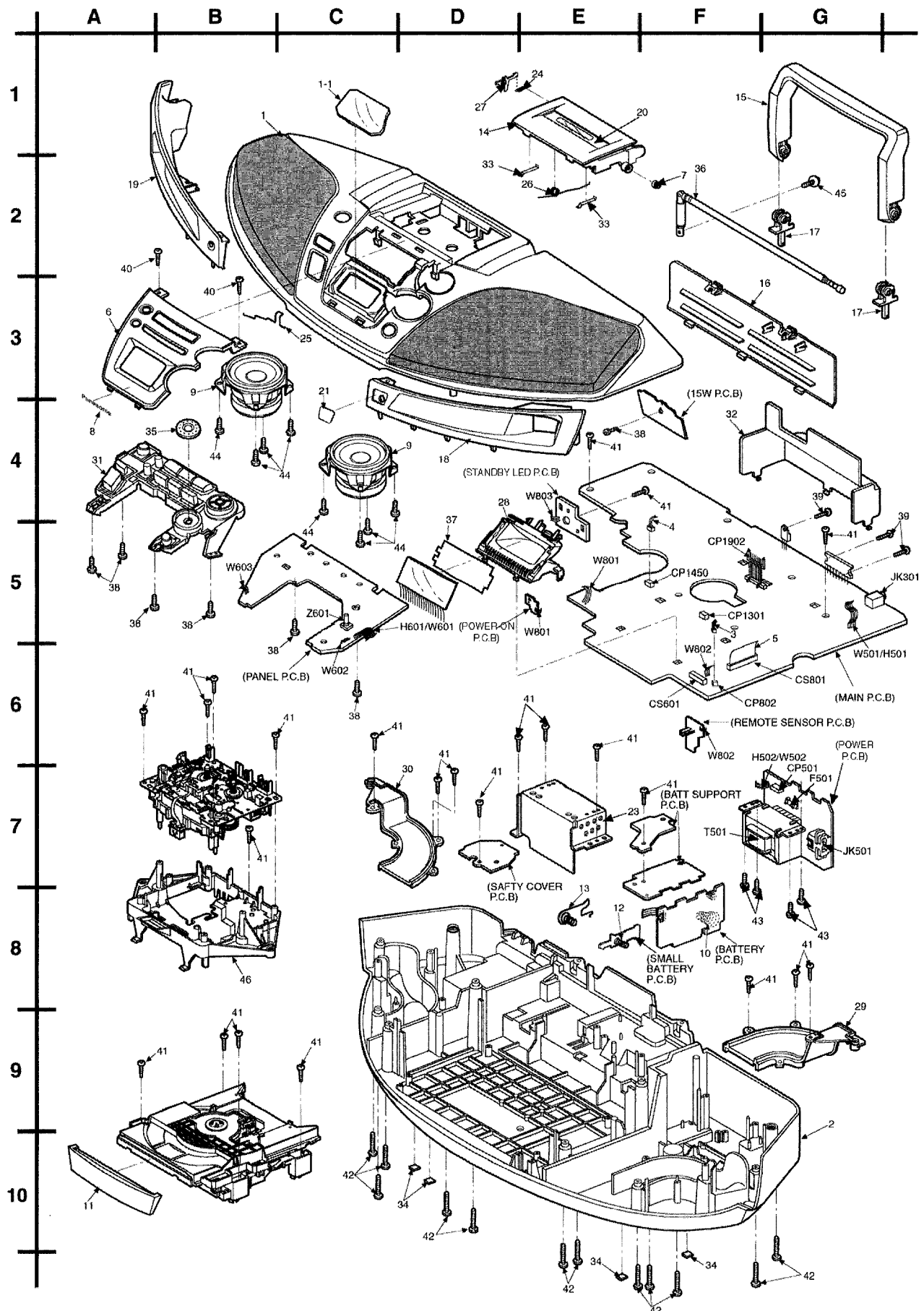


19.2.2. CD Loading Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RAE0155Z	CT100 TRV	[M]
302	RDG0455	TRV GEAR (A)	[M]
303	RDG0456	TRV GEAR (B)	[M]
304	RFKNCT100	TRAVERSE BASE ASS'Y	[M]
304-1	RDG0457	LOAD GEAR (A)	[M]
304-10	RXQ0632	TRV MOTOR UNIT	[M]
304-2	RDG0458	LOAD GEAR (B)	[M]
304-3	RDG0459	LOAD GEAR (C)	[M]
304-4	RME0290	PRESS SPRING	[M]
304-5	RME0291	LOCK SPRING	[M]
304-6	RML0551	TRG LEVER	[M]
304-7	RML0552	LOCK LEVER	[M]
304-8	RMM0219	STOPPER	[M]
304-9	XQN17+C28F	MOTOR SCREW	[M]
305	RDG0460	CAM GEAR	[M]
306	RDG0461	DRIVE GEAR	[M]
307	RGQ0254-K	TRAY	[M]
308	RHM0001	MAGNET	[M]
309	RMB0603	FLOATING SPRING	[M]
310	RME0288	CENTERING SPRING	[M]
311	RFKNXED50-S	CLAMPER HOLDER ASS'Y	[M]
312	RMG0510-K	FLOATING RUBBER (A)	[M]
313	RMG0511-K	FLOATING RUBBER (B)	[M]
314	RMK0422	MECHA CHASSIS	[M]
315	RMM0218	TRV DRIVE RACK	[M]
316	RHD30083	SCREW (CAM GEAR)	[M]
317	RMR1223-K	CLAMP PLATE	[M]
318	RMR1242-K	FIXED PLATE	[M]
319	RSH1A049-U	OPEN SWITCH	[M]
320	XTN2+6G	SCREW	[M]
321	RXQ0633	OPU UNIT	[M]

19.3. Cabinet

19.3.1. Cabinet Parts Location



19.3.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RFKKXES25EBS	UPPER CAB. ASS'Y	[M]
1-1	RKWX0140-Q	LCD PANEL	[M]
2	RFKJXES20EBS	BOTTOM CAB. ASS'Y	[M]EB
2	RKXS0036C-H	BOTTOM CABINET	[M]EG
2	RKXS0036D-H	BOTTOM CABINET	[M]E
3	REX0980	CD CONT WIRE	[M]
4	REXX0212	MOTOR WIRE	[M]
5	REEX0080	CD FFC	[M]
6	RGKX0052A-S	FRONT PANEL	[M]
7	RDG0183-J	DAMPER GEAR	[M]
8	RGB0115-S	BADGE	[M]
9	RAS8P23-B	SPEAKER	[M]
10	RJC511XA	BATT. TERMINAL	[M]
11	RGKX0051-K	CD TRAY LID	[M]
12	RJC751YB	UM-3 BATT. (SPRING)	[M]
13	RJC91008-1	+ - BATTERY TERMINAL	[M]
14	RKFX0080-S	CASS. HOLDER	[M]
15	RKHX0011-H	HANDLE	[M]
16	RKK0073-1H	BATTERY COVER	[M]
17	RKQ0224-K	HANDLE FIXTURE	[M]
18	RKTX0007-K	PORT (R)	[M]
19	RKTX0008B-K	PORT (L)	[M]
20	RKWX0141-Q	CASS. PANEL	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
21	RKWX0142A-Q	R/C SENSOR PANEL	[M]
23	RMAX0045-1	TRANSFORMER BRACKET	[M]
24	RMB0448-J	CASS. EJ. LEV. SPRING	[M]
25	RME0270	R. ANT TERMINAL	[M]
26	RMEX0010	CASS OPEN SPRING	[M]
27	RMM0163-1	CASS. LOCK ROD	[M]
28	RMNX0031-W	LCD HOLDER	[M]
29	RMVX0048	PORT COVER (R)	[M]
30	RMVX0049	PORT COVER (L)	[M]
31	RYQX0032-S	CONTROL BUTTON UNIT	[M]
32	RMVX0043	HEAT SINK	[M]
33	RUS757ZAA	CASS HALF SPRING	[M]
34	RKA0059-K	LEG RUBBER	[M]
35	RGWX0050-G	JOG KNOB	[M]
36	XEARR210C-Y	R.ANTENNA	[M]
38	XTBS26+10J	SCREW	[M]
39	XTV3+10F	SCREW (HEAT SINK)	[M]
40	XTB3+12CFN	SCREW	[M]
41	XTV3+12G	SP. MOUNTING SCREW	[M]
42	XTV3+20G	CASING SCREW	[M]
43	XTV3+6F	SCREW	[M]
44	XTV3+10G	SCREW (SPEAKER)	[M]
45	XYN3+F12FY	R.ANT SCREW	[M]
46	RMKX0037	MECHA CHASSIS	[M]

19.4. Electrical Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		P.C.B.	
	REP2807A	CD SERVO P.C.B.	[M]
	REPX0193A	MAIN P.C.B./POWER-ON P.C.B./BATTERY P.C.B./SENSOR P.C.B./ POWER P.C.B.	[M]
	REPX0195A	PANEL P.C.B.	[M]
	REPX0108E	DECK MECHANISM P.C.B.	[M]
		INTEGRATED CIRCUITS	
IC1	TA2008AN	IC TUNER	[M]
IC2	LC72131D	IC PLL	[M]
IC301	LA4601	IC POWER	[M] △
IC302	S81350HG-Z	IC 5V REGULATOR	[M] △
IC304	LC75342	IC SOUND	[M]
IC701	AN8837SBE1	IC HEAD AMP	[M]
IC702	MN662790RSC	IC LSI	[M]
IC703	BA5948FPE2	IC 4CHANNEL DRIVE	[M]
IC801	MN101C38AAD3	IC MICON	[M]
IC802	S-80733ANY-Z	IC RESET	[M]
IC951	0N2180RLC1	IC PHOTO INTERRUPTOR	[M]
IC1301	BA7755A	IC SW	[M]
IC1302	AN7317	IC P/R AMP	[M]
		TRANSISTORS	
Q1	2SC1740SRTA	TRANSISTOR	[M]
Q101	2SC1740SLNRT	TRANSISTOR	[M]
Q102	2SC1740SLNRT	TRANSISTOR	[M]
Q103	2SC3311ARTA	TRANSISTOR	[M]
Q201	2SC1740SLNRT	TRANSISTOR	[M]
Q202	2SC1740SLNRT	TRANSISTOR	[M]
Q203	2SC3311ARTA	TRANSISTOR	[M]
Q301	2SC1741ASTPR	TRANSISTOR	[M]
Q302	RVTDTTC144EST	TRANSISTOR	[M]
Q303	2SA854STPQ	TRANSISTOR	[M]
Q304	2SC1740SRTA	TRANSISTOR	[M]
Q305	2SB1240RTV2	TRANSISTOR	[M]
Q306	RVTDTTC114YST	TRANSISTOR	[M]
Q307	2SA933SSTA	TRANSISTOR	[M]
Q308	2SB1566E	TRANSISTOR	[M]
Q309	2SC1740SRTA	TRANSISTOR	[M] △

Ref. No.	Part No.	Part Name & Description	Remarks
Q310	2SA1515STPQ	TRANSISTOR	[M]
Q311	2SC1740SRTA	TRANSISTOR	[M]
Q312	2SA1515STPQ	TRANSISTOR	[M]
Q313	2SC1740SRTA	TRANSISTOR	[M]
Q314	2SA854STPQ	TRANSISTOR	[M]
Q315	RVTDTTC144EST	TRANSISTOR	[M]
Q318	2SC1740SRTA	TRANSISTOR	[M]
Q401	2SJ498CTA	TRANSISTOR	[M]
Q404	2SC1740SRTA	TRANSISTOR	[M]
Q551	RVTDTTC144EST	TRANSISTOR	[M]
Q701	2SA1037AKSTX	TRANSISTOR	[M]
Q801	2SC3311ARTA	TRANSISTOR	[M]
Q802	2SC3311ARTA	TRANSISTOR	[M]
Q805	RVTDTTC143XST	TRANSISTOR	[M]
Q806	RVTDTTC143XST	TRANSISTOR	[M]
Q807	RVTDTTC143XST	TRANSISTOR	[M]
Q808	RVTDTTA143XST	TRANSISTOR	[M]
Q809	RVTDTTC143XST	TRANSISTOR	[M]
Q1000	RVTDTTC143XST	TRANSISTOR	[M]
Q1101	2SJ498CTA	TRANSISTOR	[M]
Q1102	2SC1740SRTA	TRANSISTOR	[M]
Q1103	2SJ498CTA	TRANSISTOR	[M]
Q1104	2SJ498CTA	TRANSISTOR	[M]
Q1201	2SJ498CTA	TRANSISTOR	[M]
Q1202	2SC1740SRTA	TRANSISTOR	[M]
Q1203	2SJ498CTA	TRANSISTOR	[M]
Q1204	2SJ498CTA	TRANSISTOR	[M]
Q1301	2SC1740SRTA	TRANSISTOR	[M]
Q1303	2SC1740SRTA	TRANSISTOR	[M]
Q1400	RVTDTTC114EST	TRANSISTOR	[M]
Q1401	RVTDTTA143XST	TRANSISTOR	[M]
Q1402	RVTDTTC143XST	TRANSISTOR	[M]
Q1451	RVTDTTC143TST	TRANSISTOR	[M]
Q1452	2SD2470TP	TRANSISTOR	[M]
Q1453	RVTDTTC114EST	TRANSISTOR	[M]
Q1454	2SA854STPQ	TRANSISTOR	[M]
		DIODES	
D1	KV1520NT1-2	DIODE	[M]
D2	KV1360NTM	DIODE	[M]
D3	KV1360NTM	DIODE	[M]
D101	MTZJ7R5CTA	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D201	MTZJ7R5CTA	DIODE	[M]
D301	MTZJ12BTA	DIODE	[M] △
D302	RVD1SS133TA	DIODE	[M]
D303	RVD1SS133TA	DIODE	[M]
D304	RVD1SS133TA	DIODE	[M]
D305	MTZJ5R1BTA	DIODE	[M]
D306	RVD1SS133TA	DIODE	[M]
D307	MTZJ9R1BTA	DIODE	[M] △
D308	RVD1SS133TA	DIODE	[M]
D309	1SR35400V	DIODE	[M]
D310	1SR35400V	DIODE	[M]
D311	RVD1SS133TA	DIODE	[M]
D312	RVD1SS133TA	DIODE	[M]
D313	RVD1SS133TA	DIODE	[M]
D314	RVD1SS133TA	DIODE	[M]
D315	RVD1SS133TA	DIODE	[M]
D404	RVD1SS133TA	DIODE	[M]
D501	1SR35400V	DIODE	[M] △
D502	1SR35400V	DIODE	[M] △
D503	1SR35400V	DIODE	[M] △
D504	1SR35400V	DIODE	[M] △
D551	SPR325MVWT31	DIODE	[M]
D750	MA8056MTX	DIODE	[M]
D801	RVD1SS133TA	DIODE	[M]
D802	RVD1SS133TA	DIODE	[M]
D803	RVD1SS133TA	DIODE	[M]
D951	MA165TA	DIODE	[M]
D1500	MTZJ6R2BTA	DIODE	[M]
		SWITCHES	
S601	EVQ21405R	SW FF/FORWARD	[M]
S602	EVQ21405R	SW REW/REVERSE	[M]
S603	EVQ21405R	SW TAPE/CD STOP	[M]
S604	EVQ21405R	SW POWER	[M]
S605	EVQ21405R	SW GEQ (PRESET EQ)	[M]
S606	EVQ21405R	SW VOL -	[M]
S607	EVQ21405R	SW VOL +	[M]
S621	EVQ21405R	SW CD OPEN/CLOSE	[M]
S622	EVQ21405R	SW MEMORY/CLEAR	[M]
S623	EVQ21405R	SW CLOCK/TIMER	[M]
S624	EVQ21405R	SW TIMER PLAY/REC	[M]
S625	EVQ21405R	SW CD REC MODE	[M]
S626	EVQ21405R	SW CD PLAY/PAUSE	[M]
S627	EVQ21405R	SW TUNER BAND	[M]
S628	EVQ21405R	SW TAPE PLAY	[M]
S629	EVQ21405R	SW PAUSE/PLAY	[M]
S630	EVQ21405R	SW DECK EJECT	[M]
S701	RSH1A048-A	SW LEAF	[M]
S951	RSH1A018-3U	SW MODE	[M]
S952	RSH1A019-2U	SW LEAF	[M]
S954	RSH1A019-2U	SW LEAF	[M]
		CONNECTORS	
CN701	RJS2A6016	16P FFC CONNECTOR	[M]
CN702	RJS1A9319	19P FFC CONNECTOR	[M]
CP501	RJP4G4YA	LEAF SW 4P POST	[M]
CP802	RJP2G18ZA	2P CONNECTOR	[M]
CP1301	RJS1A6804-J	4P CONNECTOR	[M]
CP1450	RJT029W02V-1	SP CONNECTOR	[M]
CP1902	RJT071K09A	9P B/B CONNECTOR	[M]
CS601	RJS1A5210	10P WIRE HOLDER	[M]
CS801	RJS1A6819-J	CONNECTOR	[M]
CS951	RJU071H09M1	CONNECTOR	[M]
		TRIMMER	
CT1	ECRLA010A53R	TRIMMER CAPACITOR	[M]
		COILS & TRANSFORMERS	
L2	RLQY30S1W	FM COIL	[M]
L3	RLV2C045-0	FERRITE ANTENNA	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
L4	RLD4Y45W	COIL	[M]
L6	RL02B131-T	AM OSC COIL	[M]
L7	RLQZP101KT-Y	AXIAL COIL	[M]
L8	RLQY30S1W	FM COIL	[M]
L501	RL500050T-Y	RF CHOKE COIL	[M]
L502	RL500050T-Y	RF CHOKE COIL	[M]
L801	RLQZP2R2KT-Y	INDUCTOR	[M]
L802	RLQZP2R2KT-Y	INDUCTOR	[M]
L811	RLQZP2R2KT-Y	INDUCTOR	[M]
L823	RLQZP2R2KT-Y	INDUCTOR	[M]
L831	RLQZP2R2KT-Y	INDUCTOR	[M]
L1301	RL09B17-T	BIAS OSC COIL	[M]
T1	RLI2B015-T	AM IFT	[M]
T501	RTP1U1B010-X	TRANSFORMER	[M] △
		COMPONENT COMBINATION	
Z601	RRV12E12404A	AI-JOG	[M]
Z801	RSL5260-G	LCD	[M]
Z861	RCDRPM6937H4	REMOTE CTRL SENSOR	[M]
		CERAMIC FILTERS	
CF1	RLFFETNL02AL	FM CF	[M]
CF3	RLFDFT20AL	FM DISCRIMINATOR	[M]
CF4	RLFCFA459L4B	AM FILTER	[M]
		OSCILLATORS	
X2	RSXZ456KZ02	19 KHZ OSC	[M]
X3	RSXD7M20C01	X'TAL OSC	[M]
X701	RSXZ16M9M06	CERAMIC OSCILLATOR	[M]
X801	RSXZ6M00D01T	6MHZ RESONATOR	[M]
X802	RSXD32K7S02	32.768HKZ X'TAL	[M]
		FUSES	
F501	XBA2C20TB0	FUSE 100	[M] △
		FUSE HOLDERS	
FH501	RJR0169T	FUSE HOLDER	[M]
FH502	RJR0169T	FUSE HOLDER	[M]
		FUSE PROTECTOR	
FP301	RSFMB20KT-L	PROTECTOR	[M]
FP501	RSFMB40KT-L	FUSE PROTECTOR	[M]
		HOLDERS	
H501	RJS1A5504	CABLE HOLDER	[M]
H502	RJS1A5504	CABLE HOLDER	[M]
H601	RMR0319	10P CABLE HOLDER	[M]
		JACKS	
JK301	RJJ37TK01-2C	JK HEAD PHONE	[M]
JK501	RJJ1SE01-1H	JK AC	[M] △
		WIRES	
W501	REXX0214	POWER TO MAIN WIRE	[M]
W502	RWJ0104170SQ	POWER - BATT WIRE	[M]
W601	RWJ1110150RX	PANEL TO MAIN WIRE	[M]
W602	RWJ6902170KX	SPEAKER WIRE (R)	[M]
W603	RWJ4202205KX	SPEAKER WIRE (L)	[M]
W801	RWJ0103080SS	LED WIRE	[M]
W802	RWJ8303110SS	MAIN TO REMO-CON WIRE	[M]
		RESISTORS	
R2	ERDS2TJ103T	10K 1/4W	[M]
R3	ERDS2TJ332T	3.3K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R4	ERDS2TJ472T	4.7K 1/4W	[M]
R5	ERDS2TJ221T	220 1/4W	[M]
R6	ERDS2TJ104T	100K 1/4W	[M]
R8	ERDS2TJ104T	100K 1/4W	[M]
R9	ERDS2TJ104T	100K 1/4W	[M]
R11	ERDS2TJ223T	22K 1/4W	[M]
R12	ERDS2TJ103T	10K 1/4W	[M]
R13	ERDS2TJ474T	470K 1/4W	[M]
R14	ERDS2TJ474T	470K 1/4W	[M]
R16	ERDS2TJ104T	100K 1/4W	[M]
R17	ERDS2TJ222T	2.2K 1/4W	[M]
R20	ERDS2TJ223T	22K 1/4W	[M]
R21	ERDS2TJ123T	12K 1/4W	[M]
R22	ERDS2TJ102T	1K 1/4W	[M]
R23	ERDS2TJ223T	22K 1/4W	[M]
R24	ERDS2TJ103T	10K 1/4W	[M]
R25	ERDS2TJ223T	22K 1/4W	[M]
R26	ERDS2TJ103T	10K 1/4W	[M]
R27	ERDS2TJ332T	3.3K 1/4W	[M]
R28	ERDS2TJ223T	22K 1/4W	[M]
R29	ERDS2TJ103T	10K 1/4W	[M]
R30	ERDS2TJ472T	4.7K 1/4W	[M]
R31	ERDS2TJ222T	2.2K 1/4W	[M]
R32	ERDS2TJ331T	330 1/4W	[M]
R91	ERDS2TJ330T	33 1/4W	[M]
R92	ERDS2TJ182T	1.8K 1/4W	[M]
R101	ERDS2TJ222T	2.2K 1/4W	[M]
R102	ERDS2TJ682T	6.8K 1/4W	[M]
R103	ERDS2TJ183T	18K 1/4W	[M]
R104	ERDS2TJ152T	1.5K 1/4W	[M]
R105	ERDS2TJ152T	1.5K 1/4W	[M]
R106	ERDS2TJ122T	1.2K 1/4W	[M]
R108	ERDS2TJ102T	1K 1/4W	[M]
R109	ERDS2TJ473T	47K 1/4W	[M]
R110	ERDS2TJ105T	1M 1/4W	[M]
R111	ERDS2TJ103T	10K 1/4W	[M]
R112	ERDS2TJ822T	8.2K 1/4W	[M]
R113	ERDS2TJ682T	6.8K 1/4W	[M]
R115	ERDS2TJ222T	2.2K 1/4W	[M]
R116	ERDS2TJ221T	220 1/4W	[M]
R117	ERDS2TJ181T	180 1/4W	[M]
R118	ERDS2TJ103T	10K 1/4W	[M]
R119	ERDS2TJ562T	5.6K 1/4W	[M]
R120	ERDS2TJ681T	680 1/4W	[M]
R121	ERDS2TJ472T	4.7K 1/4W	[M]
R122	ERDS2TJ471T	470 1/4W	[M]
R123	ERDS2TJ683T	68K 1/4W	[M]
R124	ERDS2TJ682T	6.8K 1/4W	[M]
R201	ERDS2TJ222T	2.2K 1/4W	[M]
R202	ERDS2TJ682T	6.8K 1/4W	[M]
R203	ERDS2TJ183T	18K 1/4W	[M]
R204	ERDS2TJ152T	1.5K 1/4W	[M]
R205	ERDS2TJ152T	1.5K 1/4W	[M]
R206	ERDS2TJ122T	1.2K 1/4W	[M]
R208	ERDS2TJ102T	1K 1/4W	[M]
R209	ERDS2TJ473T	47K 1/4W	[M]
R210	ERDS2TJ105T	1M 1/4W	[M]
R211	ERDS2TJ103T	10K 1/4W	[M]
R212	ERDS2TJ822T	8.2K 1/4W	[M]
R213	ERDS2TJ682T	6.8K 1/4W	[M]
R215	ERDS2TJ222T	2.2K 1/4W	[M]
R216	ERDS2TJ221T	220 1/4W	[M]
R217	ERDS2TJ181T	180 1/4W	[M]
R218	ERDS2TJ103T	10K 1/4W	[M]
R219	ERDS2TJ562T	5.6K 1/4W	[M]
R220	ERDS2TJ681T	680 1/4W	[M]
R221	ERDS2TJ472T	4.7K 1/4W	[M]
R222	ERDS2TJ471T	470 1/4W	[M]
R223	ERDS2TJ683T	68K 1/4W	[M]
R224	ERDS2TJ682T	6.8K 1/4W	[M]
R301	ERDS2TJ333T	33K 1/4W	[M]
R302	ERDS2TJ272T	2.7K 1/4W	[M]
R303	ERDS2TJ472T	4.7K 1/4W	[M]
R304	ERD2FCVJ4R7T	4.7 1/4W	[M] △

Ref. No.	Part No.	Part Name & Description	Remarks
R305	ERDS2TJ222T	2.2K 1/4W	[M]
R306	ERDS2TJ101T	100 1/4W	[M]
R307	ERDS2TJ103T	10K 1/4W	[M]
R308	ERDS2TJ103T	10K 1/4W	[M]
R309	ERDS2TJ472T	4.7K 1/4W	[M]
R310	ERDS2TJ102T	1K 1/4W	[M]
R311	ERDS2TJ102T	1K 1/4W	[M]
R312	ERDS2TJ474T	470K 1/4W	[M]
R313	ERDS2TJ393T	39K 1/4W	[M]
R314	ERDS2TJ103T	10K 1/4W	[M]
R315	ERDS2TJ471T	470 1/4W	[M]
R316	ERDS2TJ471T	470 1/4W	[M]
R317	ERDS2TJ471T	470 1/4W	[M]
R318	ERDS2TJ471T	470 1/4W	[M]
R319	ERDS2TJ223T	22K 1/4W	[M]
R320	ERDS2TJ223T	22K 1/4W	[M]
R321	ERDS2TJ153T	15K 1/4W	[M]
R322	ERDS2TJ1R5T	1.5 1/4W	[M]
R323	ERDS2TJ1R5T	1.5 1/4W	[M]
R324	ERDS2TJ1R5T	1.5 1/4W	[M]
R325	ERDS2TJ471T	470 1/4W	[M]
R326	ERDS2TJ471T	470 1/4W	[M]
R327	ERDS2TJ101T	100 1/4W	[M]
R328	ERDS2TJ331T	330 1/4W	[M]
R329	ERDS2TJ474T	470K 1/4W	[M]
R330	ERDS2TJ103T	10K 1/4W	[M]
R331	ERDS2TJ331T	330 1/4W	[M]
R332	ERDS2TJ331T	330 1/4W	[M]
R333	ERDS2TJ183T	18K 1/4W	[M]
R334	ERDS2TJ152T	1.5K 1/4W	[M]
R335	ERDS2TJ103T	10K 1/4W	[M]
R336	ERDS2TJ472T	4.7K 1/4W	[M]
R337	ERDS2TJ103T	10K 1/4W	[M]
R338	ERDS2TJ102T	1K 1/4W	[M]
R342	ERDS2TJ102T	1K 1/4W	[M]
R401	ERDS2TJ102T	1K 1/4W	[M]
R402	ERDS2TJ102T	1K 1/4W	[M]
R405	ERDS2TJ330T	33 1/4W	[M]
R406	ERDS2TJ330T	33 1/4W	[M]
R408	ERDS2TJ472T	4.7K 1/4W	[M]
R409	ERDS2TJ335T	3.3M 1/4W	[M]
R418	ERDS2TJ105T	1M 1/4W	[M]
R419	ERDS2TJ103T	10K 1/4W	[M]
R501	ERDS2TJ271T	270 1/4W	[M]
FP501	RSFMB40KT-L	FUSE PROTECTOR	[M] △
R551	ERDS2TJ151T	150 1/4W	[M]
R552	ERDS2TJ821T	820 1/4W	[M]
R553	ERDS2TJ151T	150 1/4W	[M]
R554	ERDS2TJ151T	150 1/4W	[M]
R555	ERDS2TJ151T	150 1/4W	[M]
R601	ERDS2TJ102T	1K 1/4W	[M]
R602	ERDS2TJ102T	1K 1/4W	[M]
R603	ERDS2TJ122T	1.2K 1/4W	[M]
R604	ERDS2TJ182T	1.8K 1/4W	[M]
R605	ERDS2TJ222T	2.2K 1/4W	[M]
R606	ERDS2TJ272T	2.7K 1/4W	[M]
R607	ERDS2TJ472T	4.7K 1/4W	[M]
R621	ERDS2TJ102T	1K 1/4W	[M]
R622	ERDS2TJ102T	1K 1/4W	[M]
R623	ERDS2TJ122T	1.2K 1/4W	[M]
R624	ERDS2TJ182T	1.8K 1/4W	[M]
R625	ERDS2TJ222T	2.2K 1/4W	[M]
R626	ERDS2TJ272T	2.7K 1/4W	[M]
R627	ERDS2TJ472T	4.7K 1/4W	[M]
R628	ERDS2TJ682T	6.8K 1/4W	[M]
R629	ERDS2TJ103T	10K 1/4W	[M]
R630	ERDS2TJ223T	22K 1/4W	[M]
R701	ERJ6GEYJ4R7V	4.7 1/10W	[M]
R702	ERJ6GEYJ103V	10K 1/10W	[M]
R704	ERJ6GEYJ102V	1K 1/10W	[M]
R705	ERJ6GEYJ154V	150K 1/10W	[M]
R706	ERJ6GEYJ102V	1K 1/10W	[M]
R707	ERJ6GEYJ274V	270K 1/10W	[M]
R708	ERJ6GEYJ223V	22K 1/10W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R709	ERJ6GEYJ683V	68K 1/10W	[M]
R711	ERJ6GEYJ823V	82K 1/10W	[M]
R712	ERJ8GEYJ221V	220 1/8W	[M]
R714	ERJ6GEYJ0R00V	0 1/10W	[M]
R715	ERJ6GEYJ102V	1K 1/10W	[M]
R717	ERJ6GEYJ102V	1K 1/10W	[M]
R718	ERJ6GEYJ102V	1K 1/10W	[M]
R721	ERJ6GEYJ101V	100 1/10W	[M]
R723	ERJ6GEYJ103V	10K 1/10W	[M]
R724	ERJ6GEYJ153V	15K 1/10W	[M]
R725	ERJ6GEYJ681V	680 1/10W	[M]
R727	ERJ6GEYJ272V	2.7K 1/10W	[M]
R728	ERJ6GEYJ222V	2.2K 1/10W	[M]
R729	ERJ6GEYJ272V	2.7K 1/10W	[M]
R731	ERJ6GEYJ103V	10K 1/10W	[M]
R732	ERJ6GEYJ102V	1K 1/10W	[M]
R735	ERJ6GEYJ101V	100 1/10W	[M]
R736	ERJ6GEYJ101V	100 1/10W	[M]
R741	ERJ6GEYJ473V	47K 1/10W	[M]
R742	ERJ6GEYJ224V	220K 1/10W	[M]
R744	ERJ6GEYJ124V	120K 1/10W	[M]
R749	ERJ6GEYJ272V	2.7K 1/10W	[M]
R753	ERJ6GEYJ100V	10 1/10W	[M]
R754	ERJ6GEYJ5R6V	5.6 1/10W	[M]
R801	ERDS2TJ154T	150K 1/4W	[M]
R802	ERDS2TJ154T	150K 1/4W	[M]
R803	ERDS2TJ154T	150K 1/4W	[M]
R806	ERDS2TJ332T	3.3K 1/4W	[M]
R807	ERDS2TJ332T	3.3K 1/4W	[M]
R808	ERDS2TJ102T	1K 1/4W	[M]
R809	ERDS2TJ105T	1M 1/4W	[M]
R810	ERDS2TJ334T	330K 1/4W	[M]
R811	ERDS2TJ104T	100K 1/4W	[M]
R815	ERDS2TJ102T	1K 1/4W	[M]
R816	ERDS2TJ102T	1K 1/4W	[M]
R817	ERDS2TJ103T	10K 1/4W	[M]
R818	ERDS2TJ103T	10K 1/4W	[M]
R819	ERDS2TJ104T	100K 1/4W	[M]
R820	ERDS2TJ104T	100K 1/4W	[M]
R821	ERDS2TJ104T	100K 1/4W	[M]
R822	ERDS2TJ104T	100K 1/4W	[M]
R823	ERDS2TJ471T	470 1/4W	[M]
R825	ERDS2TJ102T	1K 1/4W	[M]
R826	ERDS2TJ102T	1K 1/4W	[M]
R827	ERDS2TJ102T	1K 1/4W	[M]
R828	ERDS2TJ102T	1K 1/4W	[M]
R829	ERDS2TJ102T	1K 1/4W	[M]
R830	ERDS2TJ474T	470K 1/4W	[M]
R831	ERDS2TJ472T	4.7K 1/4W	[M]
R832	ERDS2TJ103T	10K 1/4W	[M]
R833	ERDS2TJ103T	10K 1/4W	[M]
R841	ERDS2TJ103T	10K 1/4W	[M]
R842	ERDS2TJ102T	1K 1/4W	[M]
R848	ERDS2TJ104T	100K 1/4W	[M]
R849	ERDS2TJ104T	100K 1/4W	[M]
R850	ERDS2TJ104T	100K 1/4W	[M]
R855	ERDS2TJ472T	4.7K 1/4W	[M]
R856	ERDS2TJ472T	4.7K 1/4W	[M]
R875	ERDS2TJ102T	1K 1/4W	[M]
R876	ERDS2TJ103T	10K 1/4W	[M]
R877	ERDS2TJ103T	10K 1/4W	[M]
R878	ERDS2TJ103T	10K 1/4W	[M]
R879	ERDS2TJ103T	10K 1/4W	[M]
R880	ERDS2TJ472T	4.7K 1/4W	[M]
R881	ERDS2TJ472T	4.7K 1/4W	[M]
R882	ERDS2TJ472T	4.7K 1/4W	[M]
R883	ERDS2TJ474T	470K 1/4W	[M]
R884	ERDS2TJ472T	4.7K 1/4W	[M]
R885	ERDS2TJ472T	4.7K 1/4W	[M]
R886	ERDS2TJ103T	10K 1/4W	[M]
R887	ERDS2TJ103T	10K 1/4W	[M]
R888	ERDS2TJ103T	10K 1/4W	[M]
R889	ERDS2TJ103T	10K 1/4W	[M]
R890	ERDS2TJ103T	10K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R891	ERDS2TJ472T	4.7K 1/4W	[M]
R892	ERDS2TJ472T	4.7K 1/4W	[M]
R893	ERDS2TJ472T	4.7K 1/4W	[M]
R952	ERDS2TJ821T	820 1/4W	[M]
R953	ERDS2TJ393T	39K 1/4W	[M]
R1000	ERDS2TJ103T	10K 1/4W	[M]
R1001	ERDS2TJ683T	68K 1/4W	[M]
R1002	ERDS2TJ472T	4.7K 1/4W	[M]
R1101	ERDS2TJ223T	22K 1/4W	[M]
R1102	ERDS2TJ560T	56 1/4W	[M]
R1103	ERDS2TJ392T	3.9K 1/4W	[M]
R1104	ERDS2TJ102T	1K 1/4W	[M]
R1107	ERDS2TJ683T	68K 1/4W	[M]
R1108	ERDS2TJ392T	3.9K 1/4W	[M]
R1109	ERDS2TJ153T	15K 1/4W	[M]
R1110	ERDS2TJ474T	470K 1/4W	[M]
R1112	ERDS2TJ104T	100K 1/4W	[M]
R1201	ERDS2TJ223T	22K 1/4W	[M]
R1202	ERDS2TJ560T	56 1/4W	[M]
R1203	ERDS2TJ392T	3.9K 1/4W	[M]
R1204	ERDS2TJ102T	1K 1/4W	[M]
R1207	ERDS2TJ683T	68K 1/4W	[M]
R1208	ERDS2TJ392T	3.9K 1/4W	[M]
R1209	ERDS2TJ153T	15K 1/4W	[M]
R1210	ERDS2TJ474T	470K 1/4W	[M]
R1212	ERDS2TJ104T	100K 1/4W	[M]
R1299	ERDS2TJ333T	33K 1/4W	[M]
R1305	ERDS2TJ221T	220 1/4W	[M]
R1310	ERDS2TJ102T	1K 1/4W	[M]
R1311	ERDS2TJ563T	56K 1/4W	[M]
R1313	ERDS2TJ221T	220 1/4W	[M]
R1314	ERDS2TJ100T	10 1/4W	[M]
R1340	ERDS2TJ223T	22K 1/4W	[M]
R1341	ERDS2TJ471T	470 1/4W	[M]
R1352	ERDS2TJ104T	100K 1/4W	[M]
R1353	ERDS2TJ474T	470K 1/4W	[M]
R1401	ERDS2TJ334T	330K 1/4W	[M]
R1404	ERDS2TJ472T	4.7K 1/4W	[M]
R1405	ERDS2TJ472T	4.7K 1/4W	[M]
R1406	ERDS2TJ472T	4.7K 1/4W	[M]
R1407	ERDS2TJ473T	47K 1/4W	[M]
R1408	ERDS2TJ473T	47K 1/4W	[M]
R1409	ERDS2TJ473T	47K 1/4W	[M]
R1410	ERDS2TJ223T	22K 1/4W	[M]
R1411	ERDS2TJ331T	330 1/4W	[M]
R1412	ERDS2TJ103T	10K 1/4W	[M]
R1413	ERDS2TJ223T	22K 1/4W	[M]
R1414	ERDS2TJ473T	47K 1/4W	[M]
R1451	ERDS2TJ331T	330 1/4W	[M]
R1452	ERDS2TJ102T	1K 1/4W	[M]
R1453	ERDS2TJ273T	27K 1/4W	[M]
R1501	ERDS2TJ101T	100 1/4W	[M]
R1502	ERDS2TJ475T	4.7M 1/4W	[M]
R1503	ERDS2TJ222T	2.2K 1/4W	[M]
		CAPACITORS	
C1	ECBT1H470J5	47P 50V	[M]
C2	ECBT1H100JC5	10P 50V	[M]
C3	ECFR1C223KR	0.022 16V	[M]
C4	ECBT1H102KB5	1000P 50V	[M]
C5	ECBT1H5R6KC5	5.6P 50V	[M]
C6	ECBT1H102KB5	1000P 50V	[M]
C7	ECBT1H120JC5	12P 50V	[M]
C8	ECBT1H102KB5	1000P 50V	[M]
C9	ECBT1H102KB5	1000P 50V	[M]
C10	ECBT1H100JC5	10P 50V	[M]
C12	ECBT1H331KB5	330P 50V	[M]
C13	ECEA1CKA100B	10 16V	[M]
C14	ECBT1H102KB5	1000P 50V	[M]
C15	ECFR1C683KR	0.068 16V	[M]
C16	ECFR1C823MR	0.082 16V	[M]
C17	ECFR1C823MR	0.082 16V	[M]
C18	ECFR1C223KR	0.018 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C19	ECFR1C223KR	0.018 16V	[M]
C20	ECA1HAK010XB	1 50V	[M]
C21	ECA1HAK010XB	1 50V	[M]
C22	ECA1HAK4R7XB	4.7 50V	[M]
C23	ECFR1C333MR	0.033 16V	[M]
C24	ECFR1C333MR	0.033 16V	[M]
C30	ECBT1H331KB5	330P 50V	[M]
C31	ECBT1C103MS5	0.01 16V	[M]
C32	ECBT1H102KB5	1000P 50V	[M]
C33	ECBT1H102KB5	1000P 50V	[M]
C34	ECBT1H102KB5	1000P 50V	[M]
C35	ECA1CAK101XB	100 16V	[M]
C36	ECA1CAK101XB	100 16V	[M]
C37	ECBT1C103MS5	0.01 16V	[M]
C39	ECBT1H120JC5	12P 50V	[M]
C40	ECBT1C222KR5	2200P 16V	[M]
C42	ECBT1H180JC5	18P 50V	[M]
C43	ECBT1H101KB5	100P 50V	[M]
C44	ECA1HAK2R2XB	2.2 50V	[M]
C45	ECBT1H102KB5	1000P 50V	[M]
C48	ECA1HAK010XB	1 50V	[M]
C49	ECBT1H102KB5	1000P 50V	[M]
C50	ECBT1H102KB5	1000P 50V	[M]
C51	ECA1HAK010XB	1 50V	[M]
C53	ECBT1H102KB5	1000P 50V	[M]
C54	ECBT1H102KB5	1000P 50V	[M]
C91	ECA1CAK220XB	22 16V	[M]
C92	ECBT1H331KB5	330P 50V	[M]
C98	ECBT1H331KB5	330P 50V	[M]
C99	ECBT1H102KB5	1000P 50V	[M]
C101	ECA1HAK010XB	1 50V	[M]
C102	ECA1HAK010XB	1 50V	[M]
C103	ECA1HAK010XB	1 50V	[M]
C104	ECA1HAK010XB	1 50V	[M]
C106	ECFR1C563KR	0.056 16V	[M]
C107	ECEA1CKA100B	10 16V	[M]
C108	ECBT1H101KB5	100P 50V	[M]
C109	ECA1HAK0R1XB	0.1 50V	[M]
C111	ECA1HAK010XB	1 50V	[M]
C112	ECBT1C222MR5	2200P 16V	[M]
C113	ECA1AAM222XE	2200 10V	[M]
C114	ECA1CAK470XB	47 16V	[M]
C115	ECA1HAK3R3XB	3.3 50V	[M]
C116	ECBT1H333KB5	0.033 50V	[M]
C117	ECA1HAKR33XB	0.33 50V	[M]
C118	ECBT1H102KB5	1000P 50V	[M]
C119	ECA1CM331B	330 16V	[M]
C120	ECFR1C223KR	0.022 16V	[M]
C121	ECFR1C153KR	0.015 16V	[M]
C122	ECBT1H471KB5	470P 50V	[M]
C123	ECBT1C332KR5	3300P 16V	[M]
C201	ECA1HAK010XB	1 50V	[M]
C202	ECA1HAK010XB	1 50V	[M]
C203	ECA1HAK010XB	1 50V	[M]
C204	ECA1HAK010XB	1 50V	[M]
C206	ECFR1C563KR	0.056 16V	[M]
C207	ECEA1CKA100B	10 16V	[M]
C208	ECBT1H101KB5	100P 50V	[M]
C209	ECA1HAK0R1XB	0.1 50V	[M]
C211	ECA1HAK010XB	1 50V	[M]
C212	ECBT1C222MR5	2200P 16V	[M]
C213	ECA1AAM222XE	2200 10V	[M]
C214	ECA1CAK470XB	47 16V	[M]
C215	ECA1HAK3R3XB	3.3 50V	[M]
C216	ECBT1H333KB5	0.033 50V	[M]
C217	ECA1HAKR33XB	0.33 50V	[M]
C218	ECBT1H102KB5	1000P 50V	[M]
C219	ECA1CM331B	330 16V	[M]
C220	ECFR1C223KR	0.022 16V	[M]
C221	ECFR1C153KR	0.015 16V	[M]
C222	ECBT1H471KB5	470P 50V	[M]
C223	ECBT1C332KR5	3300P 16V	[M]
C301	ECA1EAM332XE	3300 25V	[M]
C302	ECA1CAK101XB	100 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C303	ECA1CAK220XB	22 16V	[M]
C304	ECA1CAK220XB	22 16V	[M]
C305	ECBT1H102KB5	1000P 50V	[M]
C307	ECA1CAK101XB	100 16V	[M]
C308	ECBT1H471KB5	470P 50V	[M]
C309	ECA1CAK101XB	100 16V	[M]
C310	ECA1CAK101XB	100 16V	[M]
C312	ECBT1H104ZF5	0.1 50V	[M]
C313	ECA1EAK470XB	47 25V	[M]
C314	ECBT1H104ZF5	0.1 50V	[M]
C315	ECBT1E103ZF5	0.01 25V	[M]
C316	ECA1HAK010XB	1 50V	[M]
C317	ECA1HAK010XB	1 50V	[M]
C401	ECA1CAK470XB	47 16V	[M]
C402	ECBT1H223KB5	0.022 50V	[M]
C411	ECA1CAK470XB	47 16V	[M]
C414	ECA1HAK010XB	1 50V	[M]
C420	ECBT1H221KB5	220P 50V	[M]
C422	ECBT1H221KB5	220P 50V	[M]
C423	ECBT1H221KB5	220P 50V	[M]
C501	ECKR1H103ZF5	0.01 50V	[M]
C502	ECKR1H103ZF5	0.01 50V	[M]
C503	ECKR1H103ZF5	0.01 50V	[M]
C504	ECKR1H103ZF5	0.01 50V	[M]
C601	ECBT1H101KB5	100P 50V	[M]
C602	ECBT1H101KB5	100P 50V	[M]
C701	ECEA0JKA330I	33 6.3V	[M]
C702	ECUV1E104MBN	0.1 25V	[M]
C703	ECEA0JKA101I	100 6.3V	[M]
C704	ECUV1E104MBN	0.1 25V	[M]
C706	ECUV1H272KBN	2700P 50V	[M]
C707	ECUV1E273KBN	0.027 25V	[M]
C710	ECUV1H121JCN	120P 50V	[M]
C711	ECUV1E104KBN	0.1 25V	[M]
C712	ECUV1E104KBN	0.1 25V	[M]
C713	ECUV1E104MBN	0.1 25V	[M]
C714	ECEA0JKA101I	100 6.3V	[M]
C715	ECUV1H272KBN	2700P 50V	[M]
C716	ECUV1H821KBN	820P 50V	[M]
C717	ECUV1E104ZFN	0.1 25V	[M]
C718	ECUV1C224KBN	0.22 16V	[M]
C721	ECUV1H100DCN	10P 50V	[M]
C722	ECUV1H100DCN	10P 50V	[M]
C723	ECEA1AKA221I	220 10V	[M]
C724	ECUV1E104MBN	0.1 25V	[M]
C725	ECUV1H102KBN	1000P 50V	[M]
C726	ECUV1H102KBN	1000P 50V	[M]
C727	ECA1HAK010XI	1 50V	[M]
C728	ECA1HAK010XI	1 50V	[M]
C730	ECUV1E104ZFN	0.1 25V	[M]
C731	ECA0JAK221XI	220 6.3V	[M]
C732	ECEA0JKA221I	220 6.3V	[M]
C733	ECUV1E104MBN	0.1 25V	[M]
C734	ECEA1AKA221I	220 10V	[M]
C735	ECUV1E104ZFN	0.1 25V	[M]
C736	ECUV1E104ZFN	0.1 25V	[M]
C737	ECUV1E104ZFN	0.1 25V	[M]
C738	ECUV1H563KBN	0.056 50V	[M]
C739	ECUV1H222KBN	2200P 50V	[M]
C742	ECUV1E273KBN	0.027 25V	[M]
C743	ECUV1E104ZFN	0.1 25V	[M]
C744	ECUV1E822KBN	8200P 25V	[M]
C745	ECUV1E104ZFN	0.1 25V	[M]
C747	ECUV1H181JCN	180P 50V	[M]
C749	ECUV1H222KBN	2200P 50V	[M]
C750	ECUV1E104MBN	0.1 25V	[M]
C751	ECUV1E104MBN	0.1 25V	[M]
C752	ECUV1H152KBN	1500P 50V	[M]
C753	ECUV1H471KBM	470P 50V	[M]
C754	ECUV1H471KBN	470P 50V	[M]
C801	ECBT1H104ZF5	0.1 50V	[M]
C802	ECEA1CKA100B	10 16V	[M]
C803	ECBT1C103MS5	0.01 16V	[M]
C807	ECBT1H102KB5	1000P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C808	ECBT1H102KB5	1000P 50V	[M]
C809	ECBT1H820KB5	82P 50V	[M]
C810	ECBT1H470J5	47P 50V	[M]
C811	ECBT1H820KB5	82P 50V	[M]
C812	ECBT1H470J5	47P 50V	[M]
C813	ECBT1H180JC5	18P 50V	[M]
C814	ECBT1H220JC5	22P 50V	[M]
C815	ECA1HAK010XB	1 50V	[M]
C818	ECBT1H561KB5	560P 50V	[M]
C819	ECBT1H561KB5	560P 50V	[M]
C820	ECBT1H561KB5	560P 50V	[M]
C824	ECBT1C103MS5	0.01 16V	[M]
C831	ECBT1H101KB5	100P 50V	[M]
C832	ECBT1H101KB5	100P 50V	[M]
C833	ECBT1H331KB5	330P 50V	[M]
C834	ECBT1H102KB5	1000P 50V	[M]
C840	ECBT1H102KB5	1000P 50V	[M]
C841	ECBT1H104KB5	0.1 50V	[M]
C849	ECBT1H221KB5	220P 50V	[M]
C850	ECBT1H221KB5	220P 50V	[M]
C851	ECBT1H102KB5	1000P 50V	[M]
C852	ECBT1H102KB5	1000P 50V	[M]
C853	ECBT1H102KB5	1000P 50V	[M]
C854	ECBT1H101KB5	100P 50V	[M]
C855	ECBT1H101KB5	100P 50V	[M]
C856	ECBT1H101KB5	100P 50V	[M]
C865	ECBT1H561KB5	560P 50V	[M]
C866	ECEA1AKA470B	47 10V	[M]
C868	ECBT1C103MS5	0.01 16V	[M]
C1001	ECA1CAK470XB	47 16V	[M]
C1101	ECBT1H101KB5	100P 50V	[M]
C1102	ECBT1C122MR5	1200P 16V	[M]
C1103	ECBT1H101KB5	100P 50V	[M]
C1104	ECFR1C393KR	0.039 16V	[M]
C1105	ECEA1CKA100B	10 16V	[M]
C1106	ECA1CAK101XB	100 16V	[M]
C1107	ECA1HAK010XB	1 50V	[M]
C1108	ECBT1H821KB5	820P 50V	[M]
C1109	ECEA1CKA100B	10 16V	[M]
C1110	ECBT1H821KB5	820P 50V	[M]
C1201	ECBT1H101KB5	100P 50V	[M]
C1202	ECBT1C122MR5	1200P 16V	[M]
C1203	ECBT1H101KB5	100P 50V	[M]
C1204	ECFR1C393KR	0.039 16V	[M]
C1205	ECEA1CKA100B	10 16V	[M]
C1206	ECA1CAK101XB	100 16V	[M]
C1207	ECA1HAK010XB	1 50V	[M]
C1208	ECBT1H821KB5	820P 50V	[M]
C1209	ECEA1CKA100B	10 16V	[M]
C1210	ECBT1H821KB5	820P 50V	[M]
C1301	ECBT1C103MS5	0.01 16V	[M]
C1304	ECQP1102JZT	1000P 100V	[M]
C1305	ECQP2A151JZT	150P 100V	[M]
C1306	ECA1CAK101XB	100 16V	[M]
C1307	ECBT1C822MS5	8200P 16V	[M]
C1308	ECBT1C103MS5	0.01 16V	[M]
C1325	ECA1CAK101XB	100 16V	[M]
C1451	ECA1CAK101XB	100 16V	[M]
C1500	ECA1CAK101XB	100 16V	[M]
C1501	ECA1CAK220XB	22 16V	[M]
C1502	ECEA1CKA100B	10 16V	[M]
C1503	ECFR1C473KR	0.047 16V	[M]
		CHIP JUMPER	
RJ701	ERJ6GEY0R00V	0 1/10W	[M]
RJ702	ERJ8GEY0R00V	0 1/8W	[M]
RJ703	ERJ8GEY0R00V	0 1/8W	[M]
RJ709	ERJ8GEY0R00V	0 1/8W	[M]
RJ712	ERJ8GEY0R00V	0 1/8W	[M]
RJ722	ERJ6GEY0R00V	0 1/10W	[M]
RJ723	ERJ6GEY0R00V	0 1/10W	[M]
RJ724	ERJ6GEY0R00V	0 1/10W	[M]
RJ726	ERJ6GEY0R00V	0 1/10W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
RJ727	ERJ6GEY0R00V	0 1/10W	[M]
RJ728	ERJ6GEY0R00V	0 1/10W	[M]
RJ731	ERJ6GEY0R00V	0 1/10W	[M]
RJ732	ERJ6GEY0R00V	0 1/10W	[M]
RJ734	ERJ6GEY0R00V	0 1/10W	[M]
		TEST JUMPER	
TJ701	EYF8CU	TEST JUMPER	[M]

19.5. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX0624	GIFT BOX	[M]E
P1	RPGX0625	GIFT BOX	[M]EB
P1	RPGX0626	GIFT BOX	[M]EG
P2	RPNX0111	POLYFOAM	[M]
P3	RPHV0001	MIRAMAT SHEET	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		ACCESSORIES	
A1	EUR648251	REMOTE CONTROL	[M]
A1-1	UR64EC2337A	R/C BATTERY COVER	[M]
A2	RJA0019-2K	AC CORD (SF)	[M]EG E
A2	VJA0733	AC CORD (SF)	[M]EB
A3	RQT5185-E	O/I BOOK (En/Sp/Sw)	[M]E
A3	RQT5186-R	O/I BOOK (Ru/Cz/Po)	[M]E
A3	RQT5187-D	O/I BOOK (Gr/It/Fr)	[M]EG
A3	RQT5188-H	O/I BOOK (Du/Da)	[M]EG
A3	RQT5189-B	O/I BOOK (En)	[M]EB

19.6. Packaging

Accessory case

A2: AC Cord

A3: O/I Book

