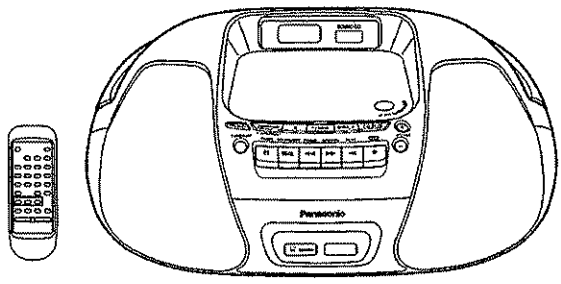
TD0402020C1
A1

Service Manual

Portable Stereo CD System

COMPACT disc DIGITAL AUDIO



RX-D29P
RX-D29PC
RX-D29PL

Traverse Mechanism Series Deck: RAE0240Z-M

Colour

(S).....Silver Type

Specifications

■ RADIO

Frequency Range	
FM	87.5~108.0 MHz (100 kHz steps)
AM	520~1710 kHz (10 kHz steps)

■ TAPE RECORDER

Track System	4 track, 2 channel, stereo
Monitor system	Variable sound monitor
Recording system	AC bias
Erasing system	Multi Pole magnet
Frequency range	
Normal position	50 ~ 12000 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	Less than possible measurement data
D/A converter	1 bit DAC

■ GENERAL

Jacks	
Output	Phones : 3.5 mm stereo (32Ω)
Power output (RMS)	4 W + 4 W (MAX)
Power Requirement	
AC	120 V, 60 Hz
Power Consumption	14 W
Battery	9 V (six R14/LR14, C, UM-2 batteries)
	● Do not use rechargeable type batteries.
Memory back-up	4.5 V (three R6/LR6, AA, UM-3 batteries)
	● Do not use rechargeable type batteries.
Speakers	
Full range	8 cm (3 3/20") 4Ω x 2
Tweeter	1.52 cm (19/32") 1KΩ x 2
Dimensions (W x H x D)	408 x 163 x 273 mm ($16\,^{1}/_{16}$" x $6\,^{7}/_{16}$" x $10\,^{3}/_{4}$")
Mass	3.5 kg (7 lb. 12.5oz) without batteries

Power consumption in standby mode : 2.3 W

Notes:

1. Specifications are subject to change without notice.
2. Mass and dimensions are approximate.

Panasonic

⚠ WARNING

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

CONTENTS

1 Safety Precaution

(This "Safety Precaution" is applied only in U.S.A.)

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

• Insulation Resistance Test

1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumper AC plug and each exposed metal cabinet part, such as screw heads, antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3MΩ and 5.2MΩ to all exposed parts*. (Fig 1) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig 2)

   *Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.
4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

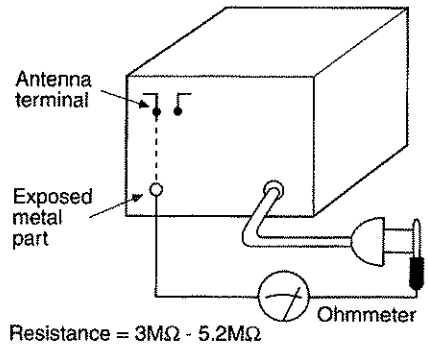


Fig. 1

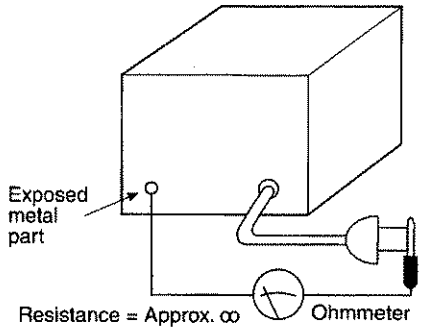


Fig. 2

Battery Service Life

UM-1 (D-size) Batteries
Approximately 14 hrs of Radio Recording. (EIAJ)
Approximately 9 hrs of Tape Playback. (EIAJ)
Approximately 8 hrs of CD Recording. (EIAJ)
Approximately 6 hrs of CD Playback. (EIAJ)

The battery service life is measured according to the conditions set forth by EIAJ. (Electronic Industries Association of Japan). As the battery service life varies with the method of operation and environmental conditions, use these values as reference.

2 Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C116, C216, C317 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 over current.

Current consumption at AC 230 V, 240 V, 50 Hz in NO SIGNAL mode should be ~45 mA 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.
- 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:

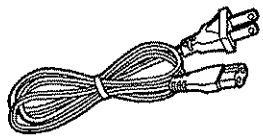
1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note:

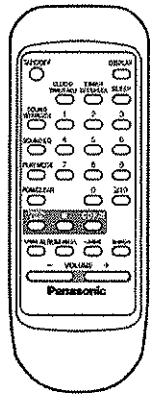
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

4 Accessories

- AC power cord.....1 pc



- Remote Control .....1 pc



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. 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.

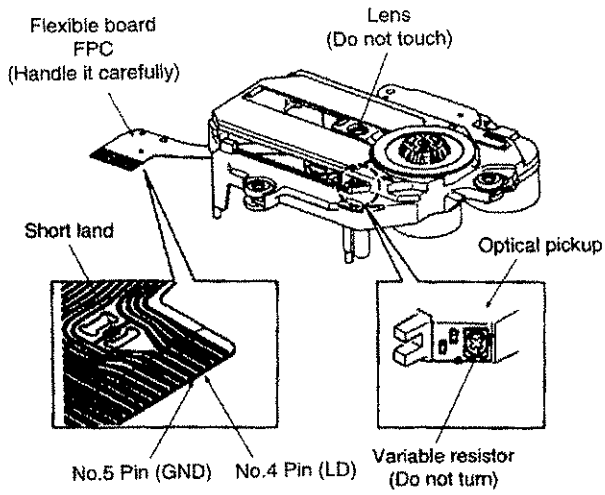
     Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is place, and ground the sheet.

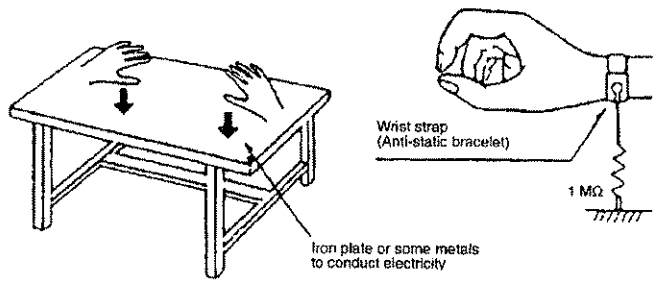
Caution:

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.





6 Precaution of Laser Diode

Caution:

This unit utilizes a class 1 laser. Invisible laser radiation is emitted from the optical pickup lens. When the unit is turned on:

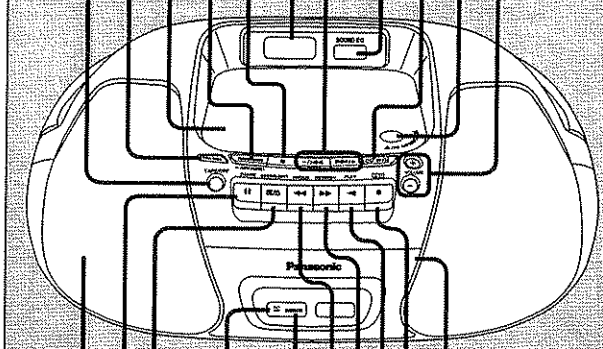
1. Do not look directly into the pickup lens.
2. Do not use optical instruments to look at the pickup lens.
3. Do not adjust the preset variable resistor on the pickup lens.
4. Do not disassemble the optical pickup unit.
5. If the optical pickup is replaced, use the manufacturer's specified replacement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

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

7 Location of Controls

Main unit:

① Tape mode/standby switch (TAPE/OFF)
② Tune mode select button (TUNE MODE)
③ CD lid
④ Tuner mode/band select/auto preset button (TUNER/BAND -AUTO PRESET)
⑤ CD stop button (■)
⑥ Display
⑦ Tuning/CD skip, search buttons (–/⏮, ⏭/+)
⑧ Sound equalizer select button (SOUND EQ)
⑨ CD play/pause button (CD▶/II)
⑩ CD lid open/close (⏏CD OPEN/CLOSE)
⑪ Volume control buttons (VOLUME +, –)



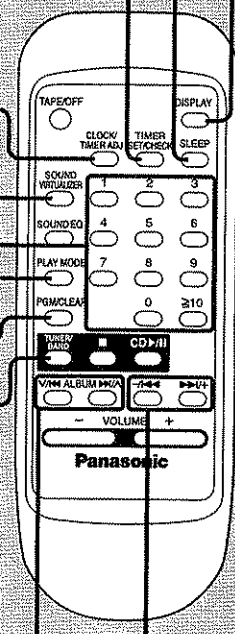
⑫ Deck
⑬ Record button (● REC)
⑭ Tape play button (◄ PLAY)
⑮ Rewind/review button (►► REW/REV)
⑯ Fast-forward/cue button (◄◄ FF/CUE)
⑰ Remote control signal sensor (SENSOR)
⑱ Standby/on indicator (⏻/I)
The indicator lights green when the unit is turned on. When the AC power supply is used, it functions as an AC connection indicator. (The indicator colour changes to red when the unit is turned off.)
⑲ Stop/eject button (■/⏏ STOP/EJECT)
⑳ Pause button (II PAUSE)
㉑ Speaker

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

Remote control:

The functions of the buttons without descriptions are the same as on the main unit.

㉒ Timer set/check button (TIMER SET/CHECK)
㉓ Sleep timer button (SLEEP)
㉔ Clock display button (DISPLAY)
㉕ Clock/timer adjust button (CLOCK/TIMER ADJ)
㉖ Sound virtualizer button (SOUND VIRTUALIZER)
㉗ Numbered buttons
㉘ CD play mode/FM mode select button (PLAY MODE)
㉙ Program/clear button (PGM/CLEAR)
㉚ Tuner mode/band select button (TUNER/BAND)



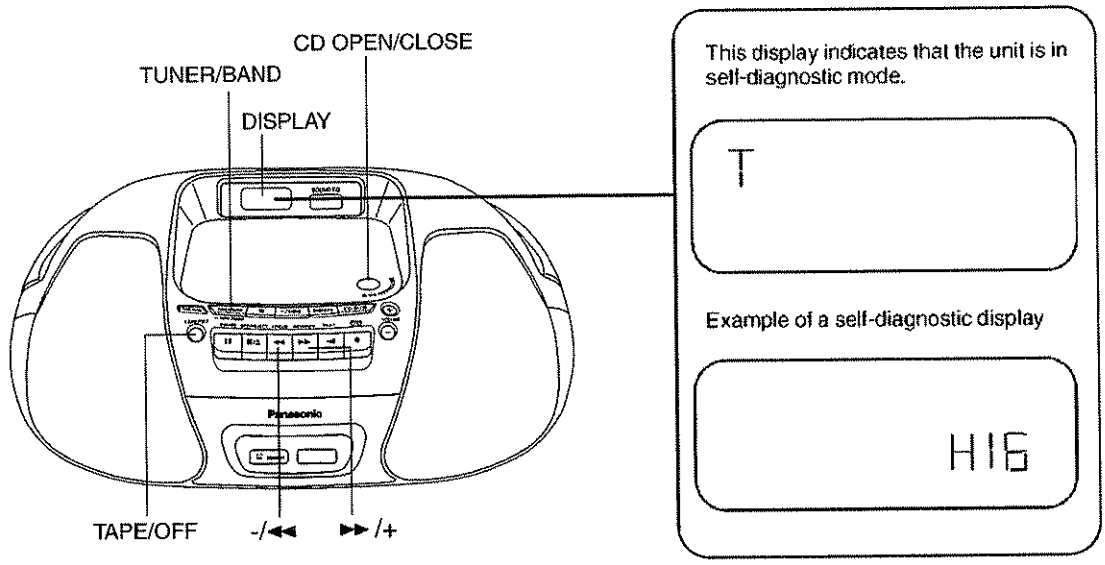
㉛ Normal tuning/CD skip, search/clock, timer adjust buttons (–/⏮ , ⏭/+)
㉜ Preset channel select/album skip buttons(V/⏮ ALBUM ⏭/Λ)

8 Self-Diagnostic Functions

8.1. Setting of the Self-Diagnostic Mode

1. Switch the SELECTOR to CD and set to TAPE STOP state. (CD PLAY→STOP)
2. Press the ■/CLEAR for the first two seconds and followed by the FAST FORWARD keys for another two seconds without releasing the ■/CLEAR key, it shall enter into the Self-Diagnostic mode.
3. At the state of [T] display, operate as follows:
   - Open the CD lid and close it right away.
   - Start recording TAPE, and STOP it at once.
4. Press ■/CLEAR key.
   - Self diagnostic results, i.e. the memorized errors during actual operations and the result of above-mentioned operation shall be displayed alternately.
   - If there is no error, the aforementioned display [T], shall be kept.
   - If the operation in the above mentioned in item 4 is made without executing the procedure in item 3, [H16] and [F69] shall be displayed.

8.2. Display Location



8.3. Display Content

No.	Abnormal Items	Error Display	Method of detection
1	CLOSE SW abnormal	H16	Detect error during closing operation and memorised it as an error.
2	REST SW abnormal	F15	Under normal operation (Self-Diagnostic Mode inclusive), this error occurs when the REST SW ON is not detected within the specified time (5000 ms) and shall be memorised.
3	Transmission error between CD servo LSI and micon	F26	Under normal operation (Self-Diagnostic Mode inclusive), this error occurs when the selection is set to CD and SENSE ='H' is detected and SENSE ='L' is not detected within a fail-safe time (20 ms) after system command transmission was sent.
4	Low battery detecter	U01	Detect the battery when the battery is low.

9 Troubleshooting Guide

Before requesting service, make the below checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, consult your dealer for instructions.
Reference pages are shown as black circled numbers.

Common Problems

The unit doesn't work on batteries.	Is the AC mains lead connected to the unit? Disconnect when using batteries.
	Have the batteries been inserted correctly? Check that the poles (+ and –) are correctly aligned.
"UO1" is displayed.	Replace the batteries or use household AC power.

CD

"ERROR" is displayed.	Indicates an incorrect operation. Read the instructions.
Play doesn't start or display is incorrect.	Clean the CD.
	Wait for an hour for condensation to dry, then try again.
	Make sure the label is facing up.
	Replace the CD if it is scratched, warped, or irregularly shaped.
	Play of a multi-session disc may not be possible if there is a blank data segment betweeen sessions.
	If there is large JPEG data etc. within a MP3 file, sound may become muted and play may not possible.
	If you try playing a CD that contains MP3 format data and normal audio data (CD-DA), output from one of the above may become silent, and play may not be possible.
CD-RW cannot be read.	The disc was incompletely formatted. Use the recording equipment to fully format the disc before recording.

Cassette

Recording not possible.	Has the cassette's tab been removed? Cover the hole with adhesive tape.
Poor sound quality.	Clean the heads.
The cassette cannot be ejected or the lid can't be closed when loading a cassette.	The batteries are flat. Replace the batteries or connect to household AC power.
	Press [◄ PLAY] then [■/⏏ STOP/EJECT].

Radio

A lot of noise.	Is another remote control being used? Use it further away from this unit.
	Is a TV on? Move the unit away from the TV or turn it off.

Remote control

The remote control doesn't work.	Check the batteries are inserted correctly.
	Replace the batteries if they are worn.

10 Operation Checks and Component Replacement Procedures

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 ressembly procedures are described only when required.
3. Select item from the following index when checks or replacement are required.

Contents

- **Disassembly Procedure for each major P.C.B.**

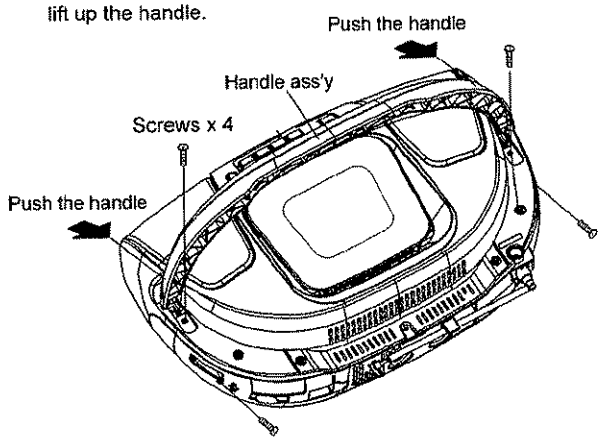
1. Replacement of Handle.
2. Replacement of Up Cabinet ,Back Cabinet,Front Cabinet.
3. Checking for Deck P.C.B and Tuner P.C.B.
4. Replacement of Pinch Roller, Eraser Head, Record / Play back Head.
5. Replacement of Motor, Main Belt, Forward Belt.
6. Replacement of Traverse Deck.
7. Replacement of CD Cover.
8. Replacement of Cassette Cover.
9. Troubleshooting for Cassette Tape Entanglement.
10. Checking for Main PCB and CD Servo P.C.B.

Warning:

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

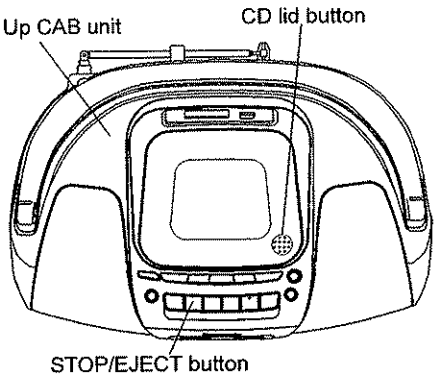
10.1. Removal of the handle ass'y

1.Remove the screw x 4.
2.Push the handle in the direction of arrow,and then lift up the handle.

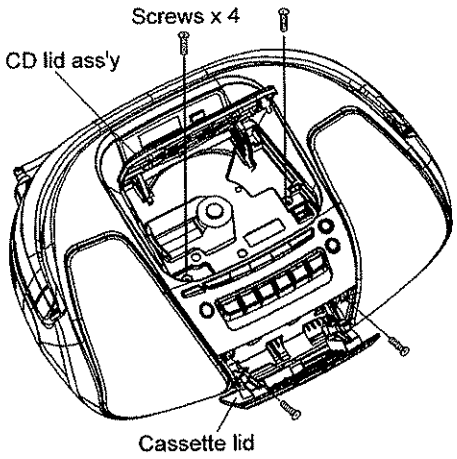


10.2. Removal of the up cabinet unit

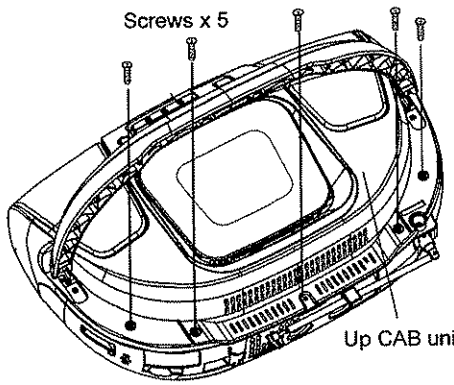
1.Open the CD lid ass'y and the cassette lid.



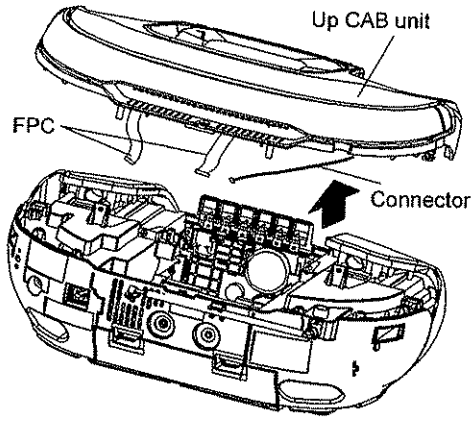
2.Remove the screws x 4.



3.Remove the screws x 5.

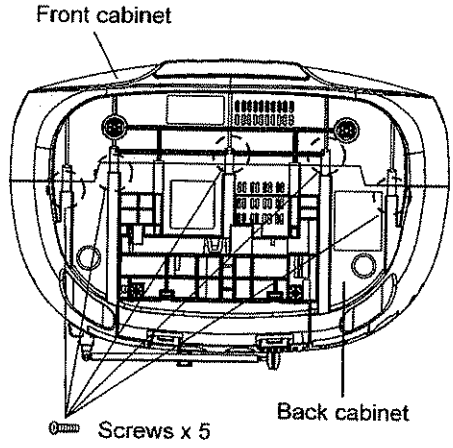


4.Remove the up CAB unit in the direction of arrow.
5.Release the FPC and connector.

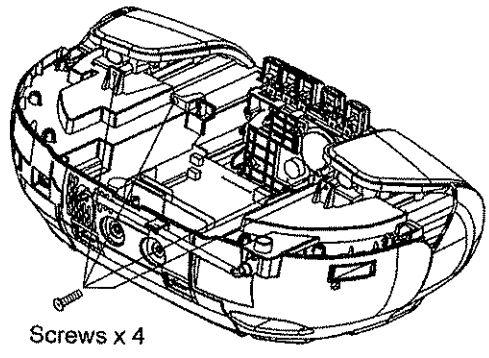


10.3. Removal of the back cabinet and front cabinet

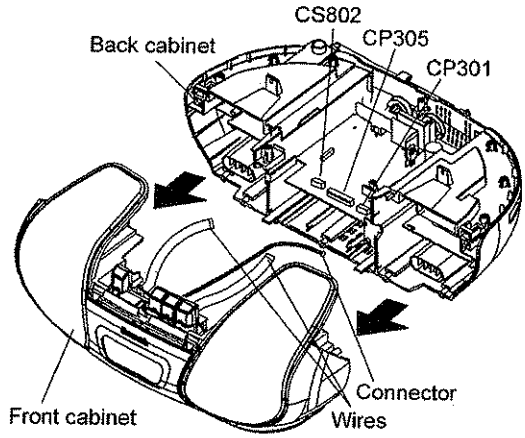
1.Remove the screws x 5.



2.Remove the screws x 4.

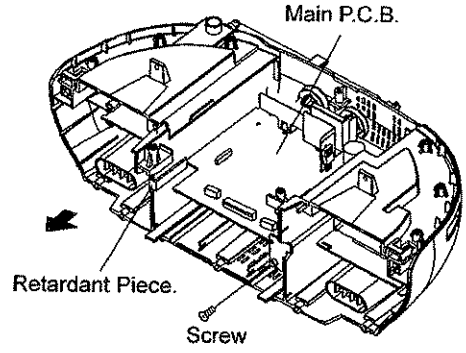


3.Remove the front cabinet in the direction of arrow.
4.Release the all connector and wires.

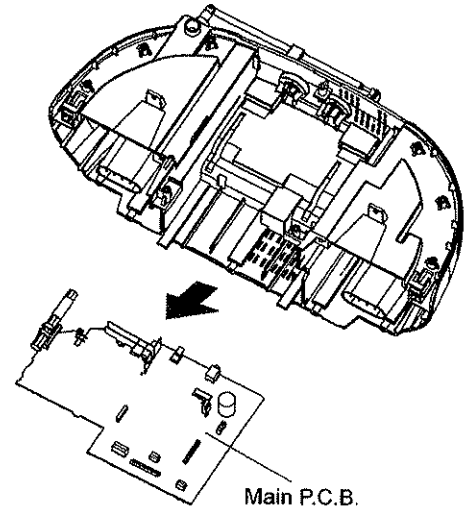


10.4. Removal of the main P.C.B.

1.Remove the retardant piece.
2.Remove the screw x 1.

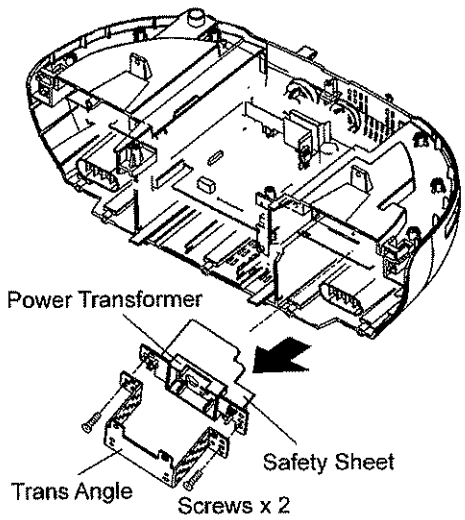


3.Remove the Main P.C.B. in the direction of arrow.



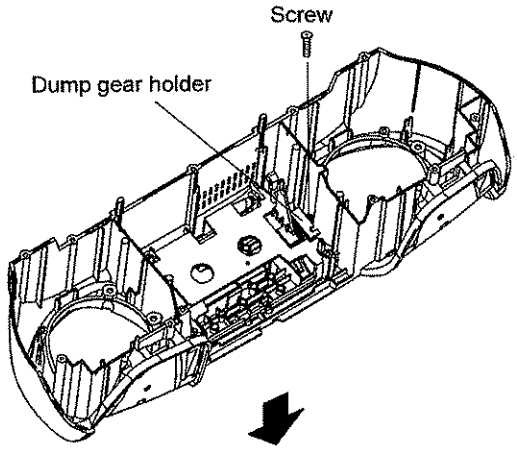
10.5. Removal of the power transformer

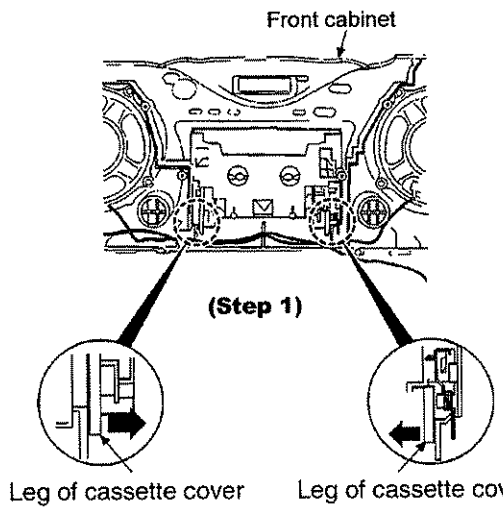
1.Remove the screws x 2.
3.Remove the power transformerin the direction of arrow.

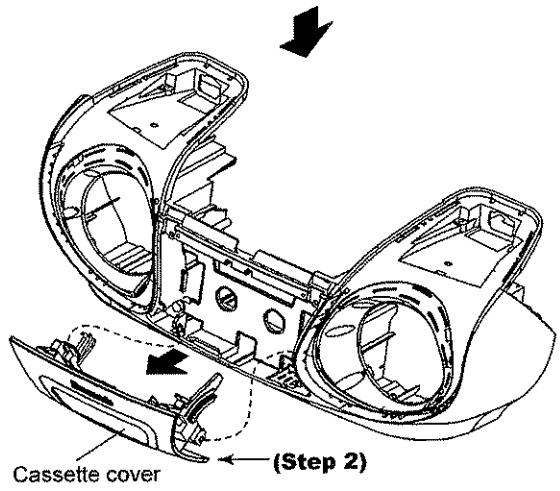


10.6. Replacement of the cassette cover

1.Remove the screw.
2.Remove the dump gear holder.

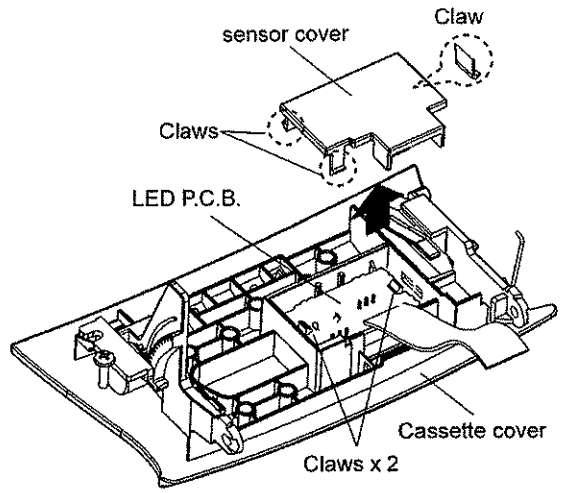






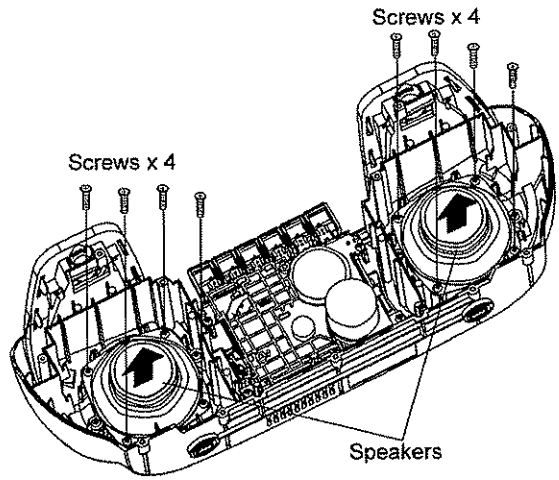
10.7. Removal of the sensor cover and LED P.C.B.

1.Release the 3 claws,and then remove the sensor cover.
2.Release the 2 claws,and then remove the LED P.C.B.



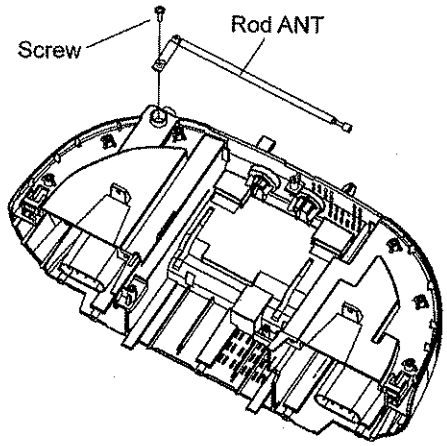
10.8. Removal of the speaker

1.Remove the screws x 8.
2.Remove the speakers in the direction of arrow.



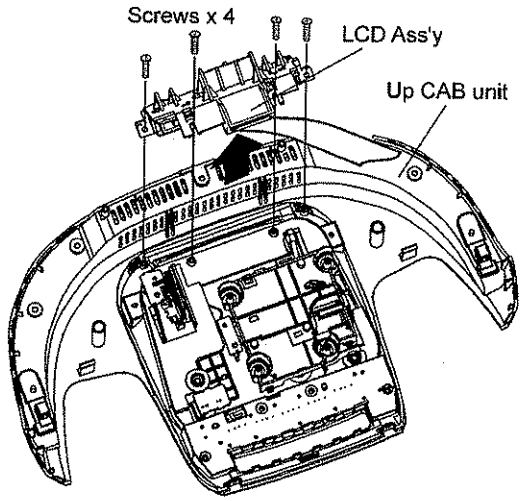
10.9. Removal of the rod ANT

1.Remove the screw x 1.



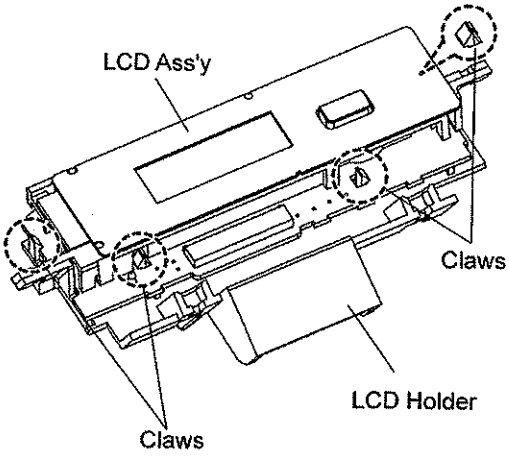
10.10. Removal of the LCD ass'y

1.Remove the screws x 4.
2.Remove the LCD Ass'y in the direction of arrow.



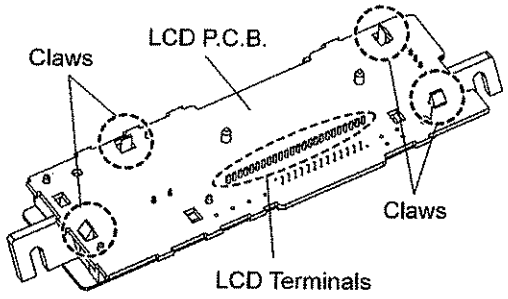
10.11. Removal of the LCD holder

1.Release the claws x 4,and then remove the LCD holder.



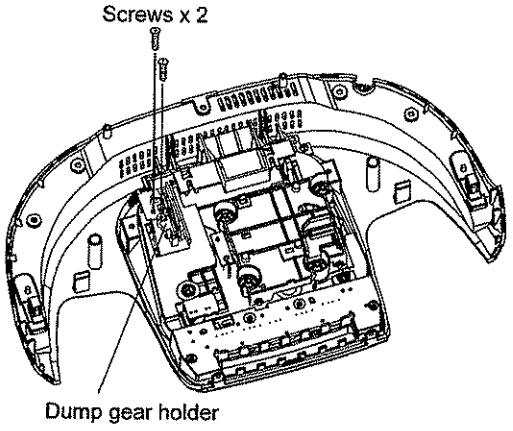
10.12. Removal of the LCD P.C.B.

1.Release the claws x 4.
2.Unsolder the LCD terminal,and then remove the LCD P.C.B.

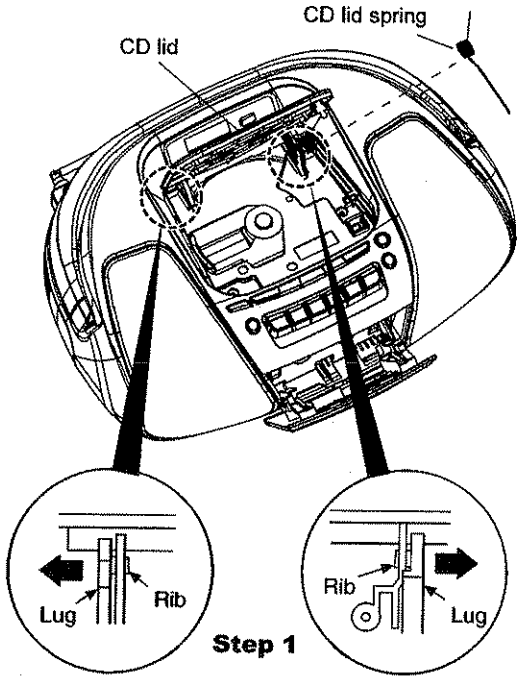


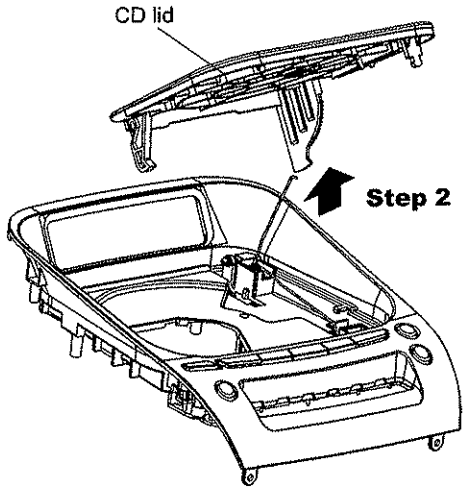
10.13. Removal of the LCD lid

1.Remove the screws x 2.
2.Remove the dump gear holder.



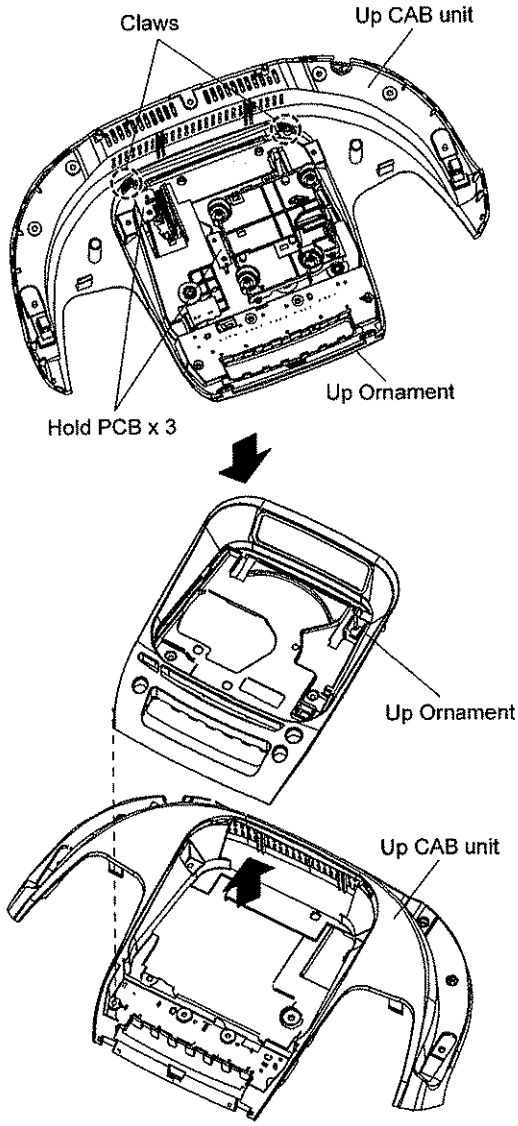
3. Oper the CD lid .
4. Push the lug of CD lid in the direction of arrow, and then remove the rib.
5.Remove the CD lid spring.





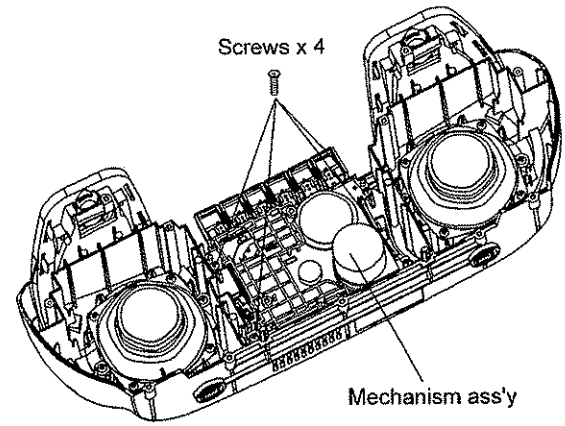
10.14. Removal of the up ornament

1.Remove the hold PCB x 3.
2.Release the claws x 2, and then remove the up ornament.



10.15. Removal of the mechanism ass'y

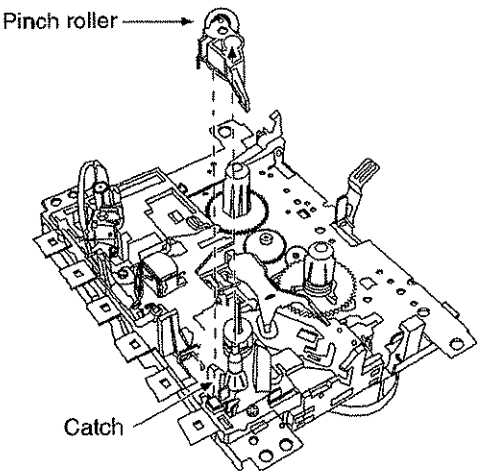
1.Open the cassette lid.
2.Remove the screws x 4, and then remove the mechanism.



10.15.1. Replacement of Pinch Roller, Eraser Head, Record / Play back Head

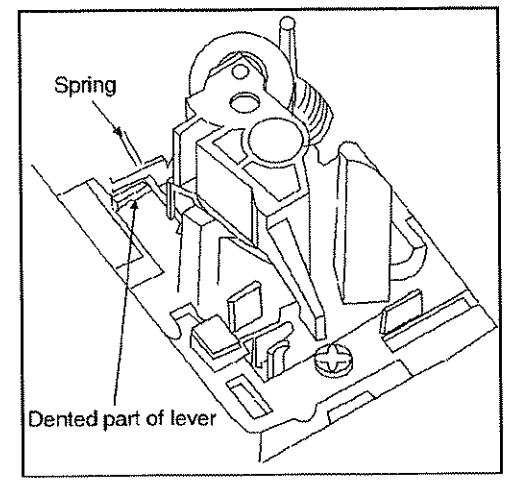
● Replacement of Pinch Roller

Remove a catch to remove the pinch roller upward.



Notes : For pinch roller installation

The spring of the pinch roller should fit in the dented part of the lever.

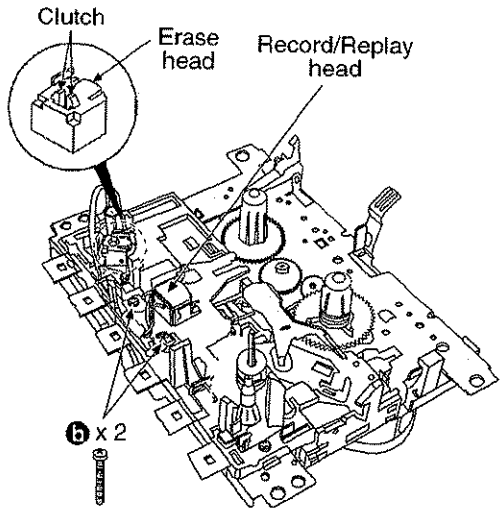


● Replacement of Record/Replay Head

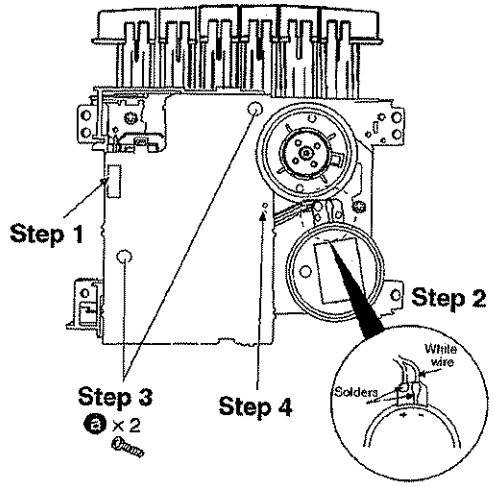
Remove the two screws (b) and remove the record/replay head.

● Replacement of Erase Head

Remove the two catches and remove the erase head.



10.15.2. Replacement of Motor, Main Belt, Forward Belt

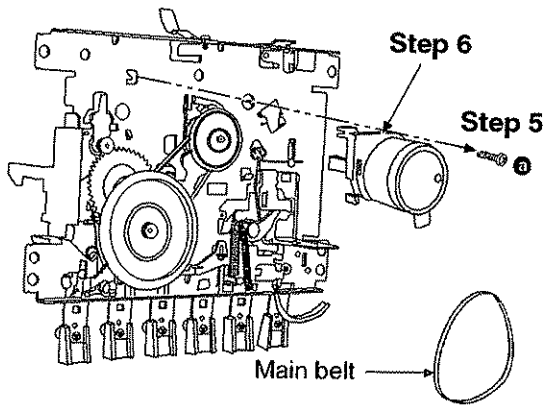


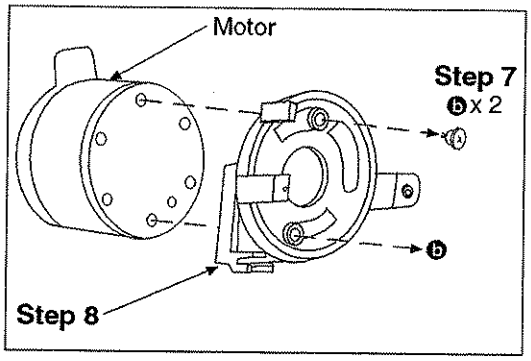
Step 1 : Remove the connector.

Step 2 : Remove the solders of the lead wire.

Step 3 : Remove the screws.

Step 4 : Remove the motor control circuit board.



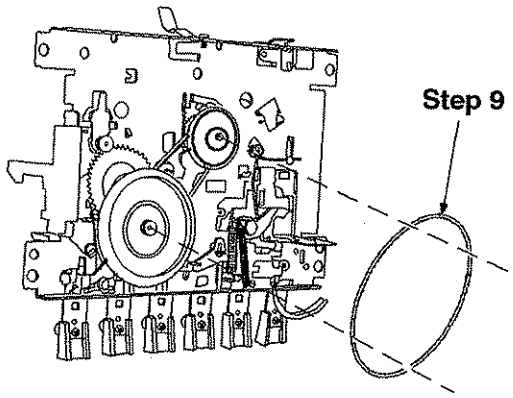


Step 5 : Remove the screw.

Step 6 : Remove the motor and the motor angle.

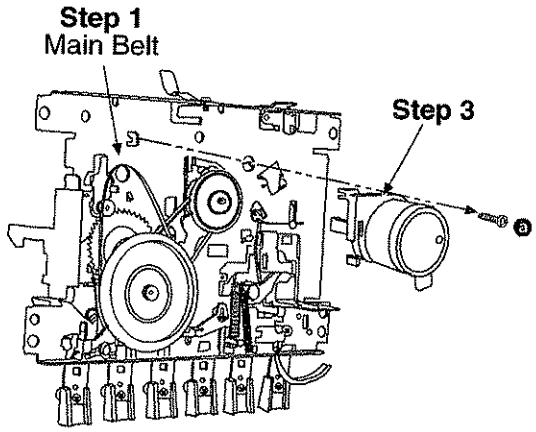
Step 7 : Remove the screws.

Step 8 : Remove the motor angle.



Step 9 : Remove the forward belt.

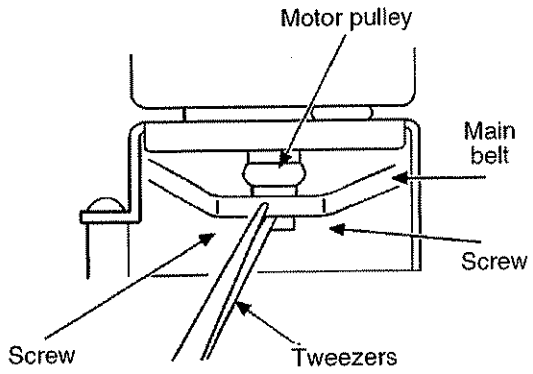
10.15.2.1. Installation of Main Belt



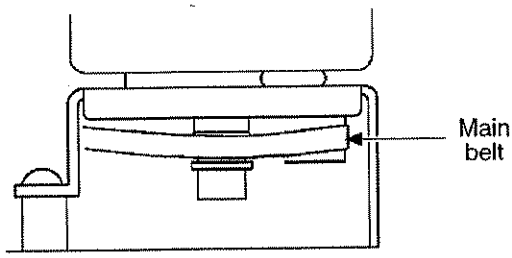
Step 1 : Position a main belt as picture shown temporarily.

Step 2 : Install the motor and the motor angle to the mechanism unit.

Step 3 : Fasten with a screw.

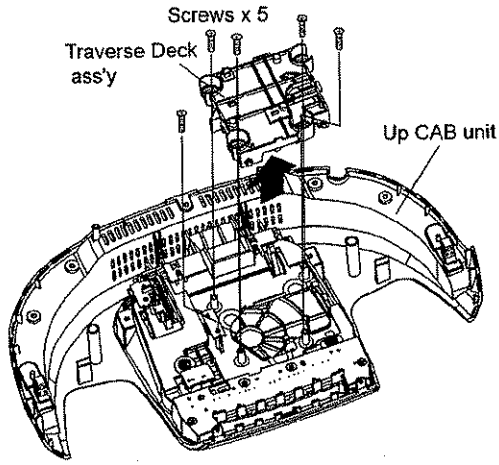


Step 4 : Hang the main belt to the motor pulley.

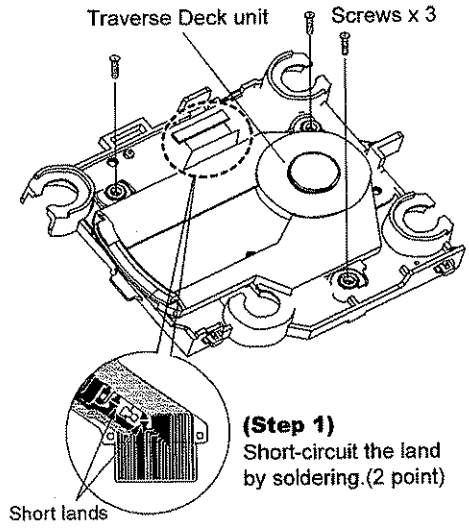


10.16. Replacement of Traverse Deck

1.Remove the screws x 5.
2.Remove the traverse deck ass'y in the direction of arrow.

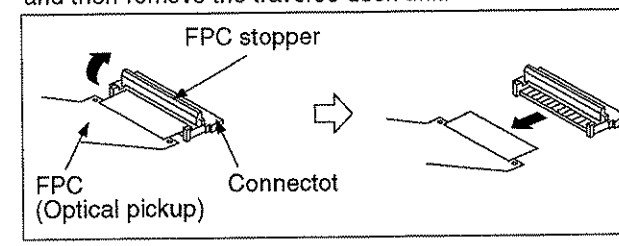


1.Remove the screws x 3.
2.Remove the traverse deck ass'y in the direction of arrow.



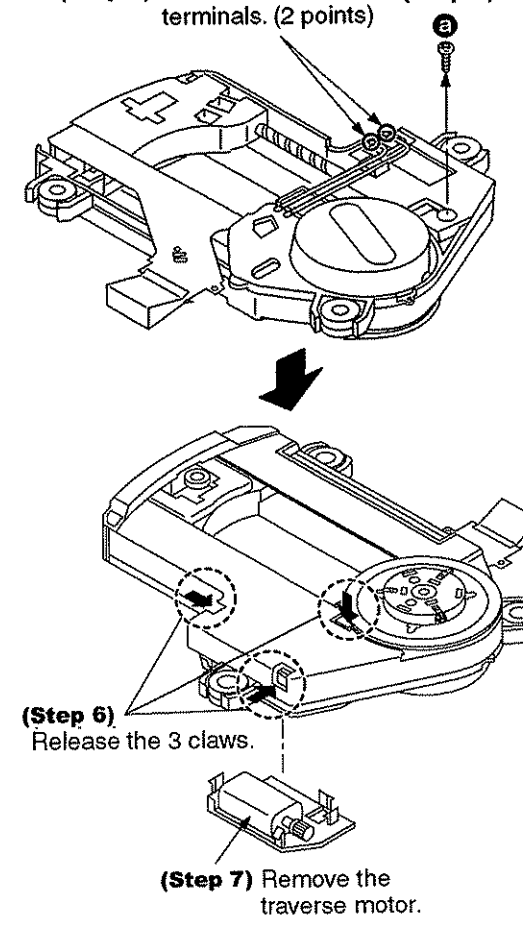
(Step 1)
Short-circuit the land by soldering.(2 point)

(Step 2)
Move the FPC stopper in the direction of arrow.
(Step 3)
Pull out the FPC from connector, and then remove the traverse deck unit.



(Step 4) Unsolder the motor terminals. (2 points)

(Step 5)

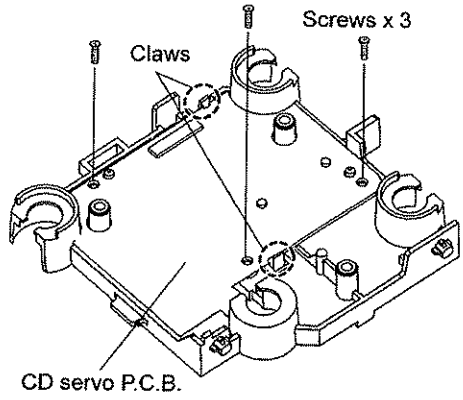


(Step 6)
Release the 3 claws.

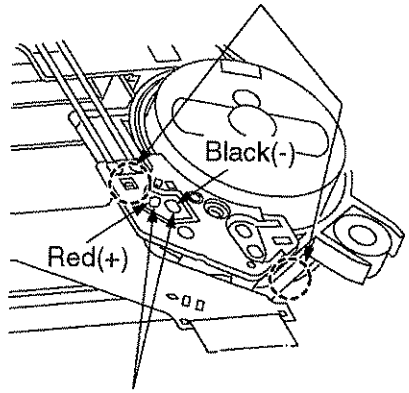
(Step 7) Remove the traverse motor.

10.17. Remove of the CD servo P.C.B.

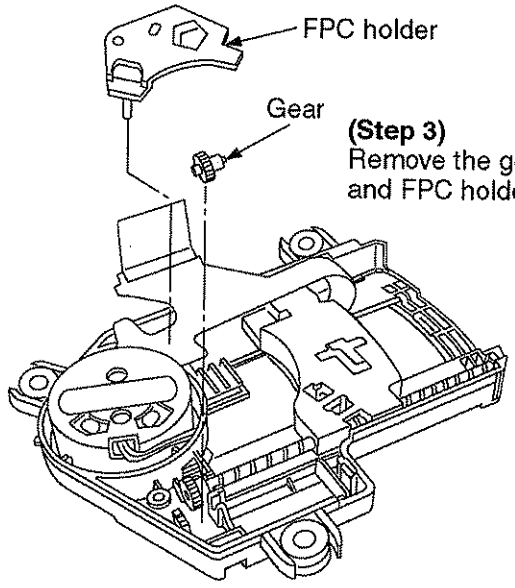
1.Remove the screws x 3.
2.Release the 2 claws,and then remove the CD servo P.C.B.



(Step 2)
Release the 2 claws.

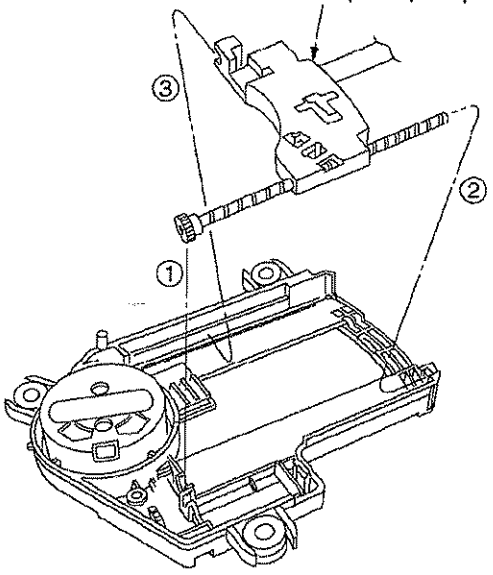


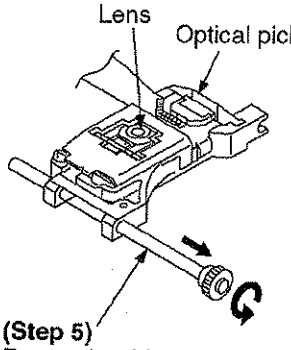
(Step 1)
Unsolder the motor lead wires (2 point).



(Step 3)
Remove the gear and FPC holder.

(Step 4)
Remove the optical pickup ass'y.



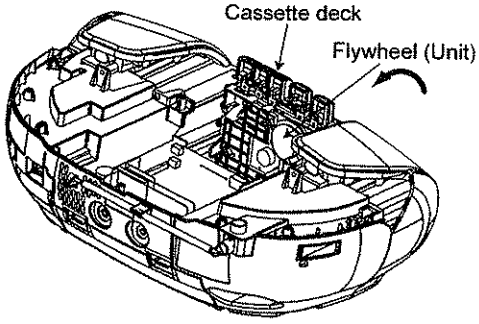


(Step 5)
Rotate the drive shaft, and then pull out it.

NOTE:
1. Use care to prevent damage the optical pickup, due to the precision construction.
2. Do not apply the grease on the lens of optical pickup.
3. Do not touch the lens of the optical pickup.

10.18. Troubleshooting for Cassette Tape Entanglement

1. Follow steps described in item 10.1 ~ 10.2.
2. If the tape is tangled in the capstan, pinch roller, etc. during replay or recording and the cassette tape is stuck in the unit, turn the flywheel to the arrowed direction to take out the tangled tape.



Step 1 : Turn the flywheel.
Step 2 : Open the cassette cover and remove the tape.

10.19. Check for Main P.C.B. and CD Servo P.C.B.

Step 1: Insert the CD unit as the arrow indicated. (Fig.1 & Fig.2)

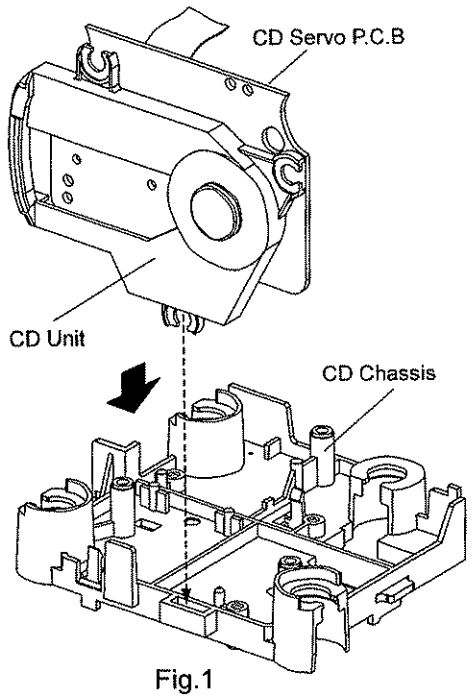


Fig.1

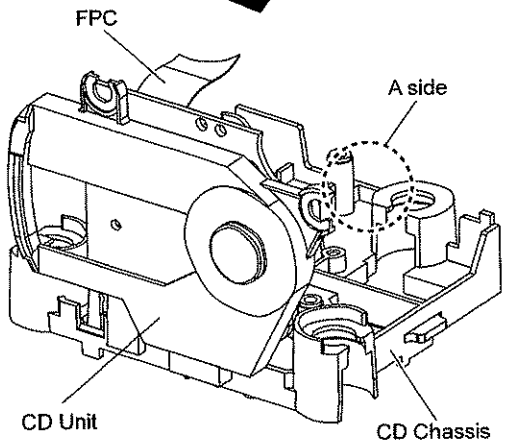


Fig.2

Step 2: Insert the A side of CD chassis to the cave of set and secure it . (Fig.3 & Fig.4)
Step 3: CD unit FPC to main P.C.B. (CS701) (Fig.3)
Step 4: Start test.

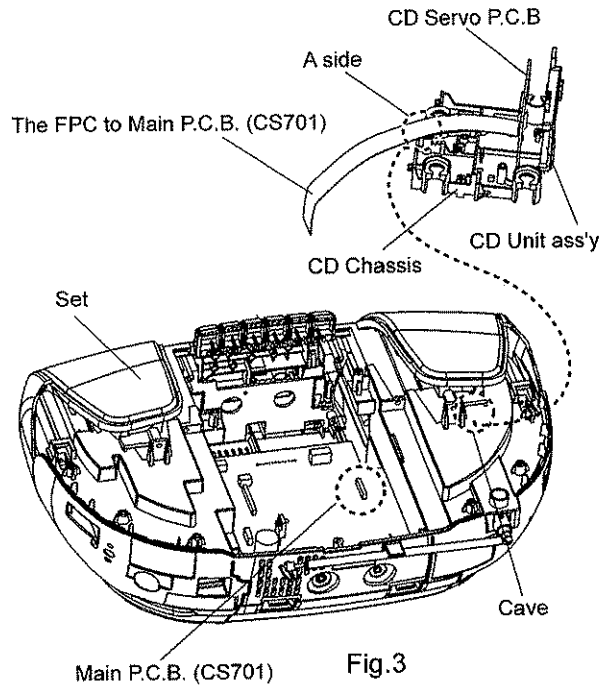


Fig.3

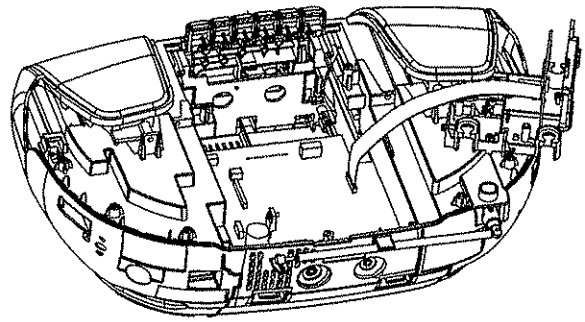


Fig.4

11 Schematic Diagram Notes

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

Notes:

SW601: CD Leaf Switch (Open,CLose).
SW602: CD PLAY/PAUSE Switch.
SW603: CD-STOP Switch.
SW604: CD -REW Switch.
SW605: Volume + Switch.
SW606: Volume - Switch.
SW607: TUNER/BAND Switch.
SW608: TAPE/OFF Switch.
SW609: TUNING MODE Switch.
SW611: CD-FF/ + Switch.
SW1001: Playback/Recorder Switch.
(P...Playback, R...Recorder).
SW1002: Leaf Switch (Motor).

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

No mark.....Playback [ ].....FM (( )).....CD
( ).....AM. < >.....Tape.

- This schematic diagram may be modified at any time with the development of new technology.

- **Importance safety notice:**

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

Caution!

IC, LSI and VLSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

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

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F501 1.25A 125V FUSE TYPE F502 1.25A 125V FUSE

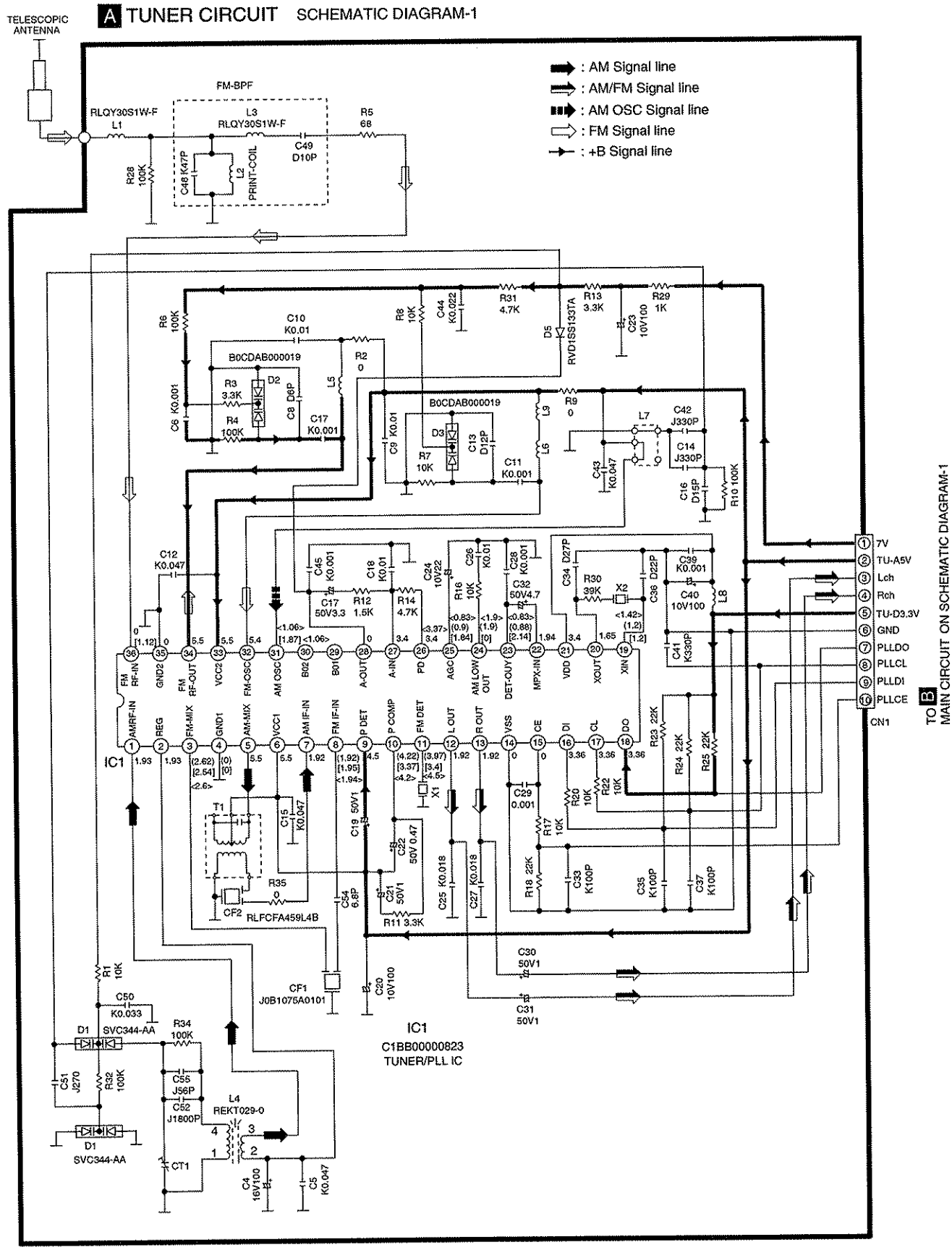
RISK OF FIRE-REPLACE FUSE AS MARKED.

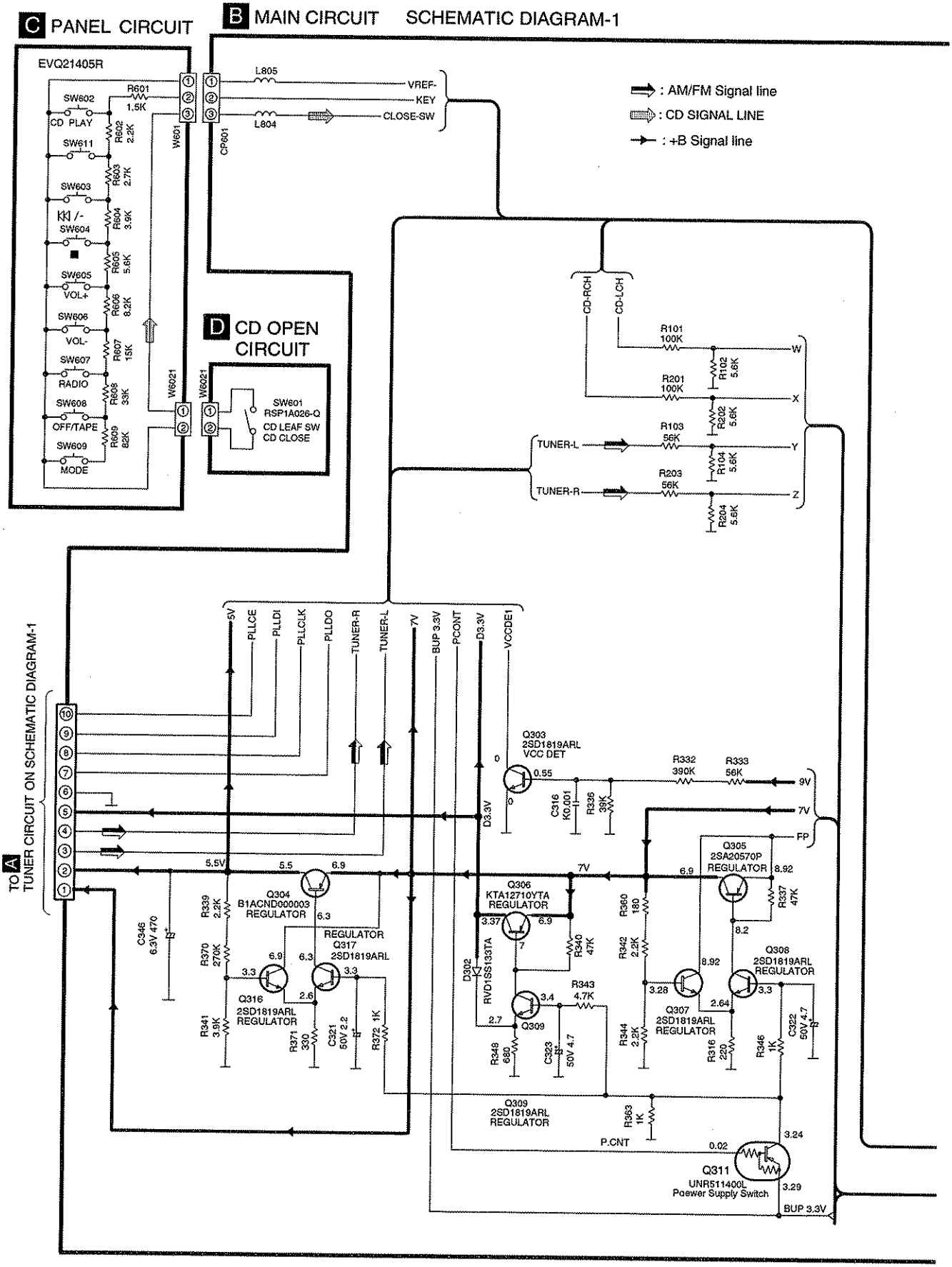
FUSE CAUTION

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

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

12 Schematic Diagram

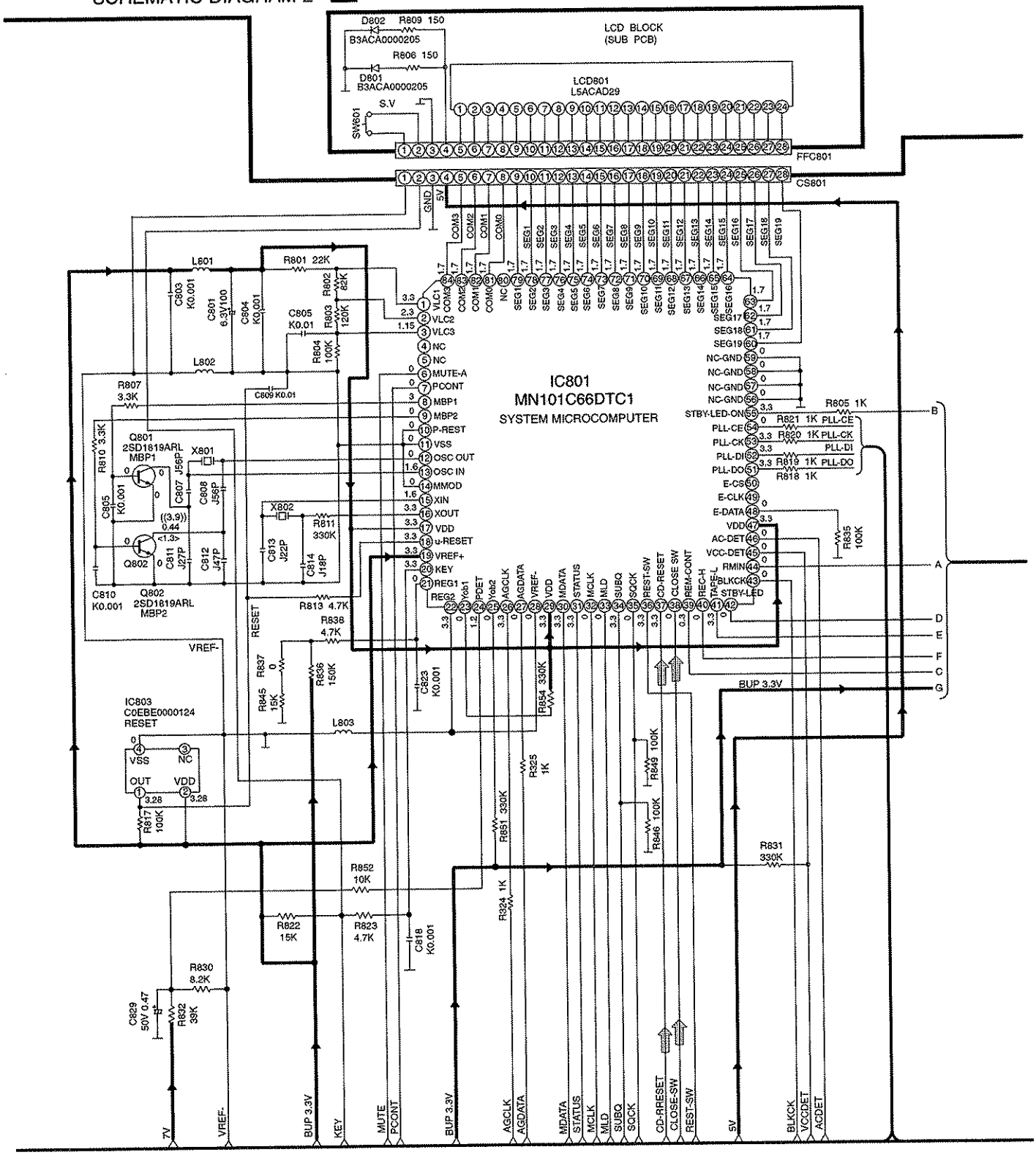



C PANEL CIRCUIT
B MAIN CIRCUIT SCHEMATIC DIAGRAM-1
D CD OPEN CIRCUIT
EVQ21405R
SW602 CD PLAY
SW611
SW603
SW604
SW605 VOL+
SW606 VOL-
SW607 RADIO
SW608 OFF/TAPE
SW609 MODE
R601 1.5K
R602 2.2K
R603 2.7K
R604 3.9K
R605 5.6K
R606 8.2K
R607 15K
R608 33K
R609 82K
W601
W6021
CP601
L805
L804
VREF-
KEY
CLOSE-SW
SW601 RSP1A026-Q
CD LEAF SW
CD CLOSE
: AM/FM Signal line
: CD SIGNAL LINE
: +B Signal line
CD-RCH
CD-LCH
R101 100K
R201 100K
R102 5.6K
R202 5.6K
R103 56K
R203 56K
R104 5.6K
R204 5.6K
TUNER-L
TUNER-R
W
X
Y
Z
TO A TUNER CIRCUIT ON SCHEMATIC DIAGRAM-1
5V
PLLCE
PLLDI
PLLCLK
PLLDO
TUNER-R
TUNER-L
7V
BUP 3.3V
PCONT
D3.3V
VCCDE1
Q303 2SD1819ARL VCC DET
R332 390K
R333 56K
C316 K0.001
R336 39K
9V
7V
FP
Q305 2SA20570P REGULATOR
Q304 B1ACND000003 REGULATOR
Q306 KTA12710YTA REGULATOR
Q317 2SD1819ARL REGULATOR
Q316 2SD1819ARL REGULATOR
Q307 2SD1819ARL REGULATOR
Q308 2SD1819ARL REGULATOR
Q309 2SD1819ARL REGULATOR
D302 RVD1SS133TA
R339 2.2K
R370 270K
R341 3.9K
R371 330
C321 50V 2.2
R372 1K
C346 6.3V 470
R340 47K
R343 4.7K
R348 680
C323 50V 4.7
R342 2.2K
R360 180
R337 47K
R344 2.2K
R316 220
R346 1K
C322 50V 4.7
R363 1K
P.CNT
Q311 UNR511400L Power Supply Switch
BUP 3.3V

B MAIN CIRCUIT SCHEMATIC DIAGRAM-2

E LCD CIRCUIT

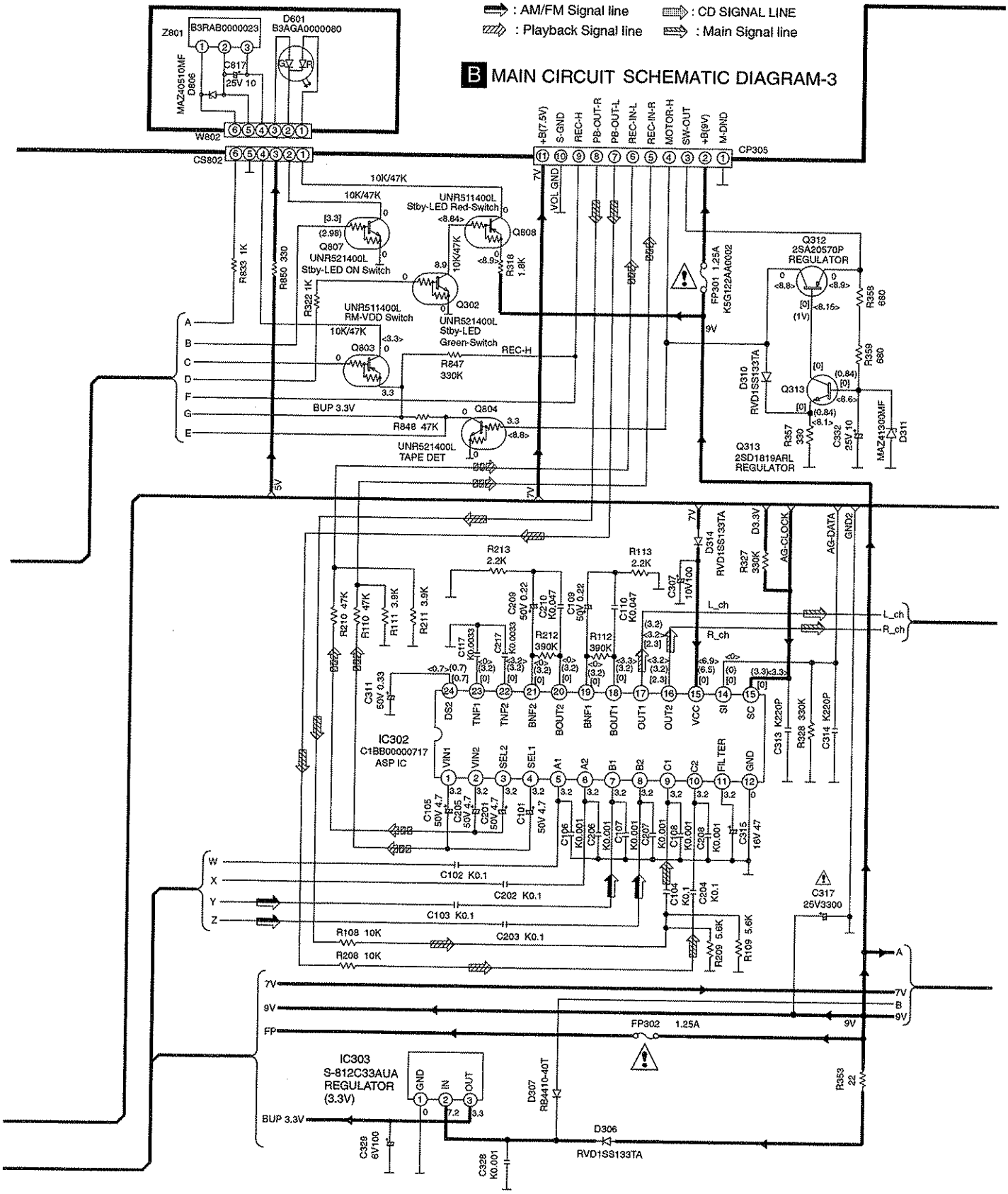
: +B SIGNAL LINE
: AM/FM Signal line
: CD SIGNAL LINE



F LED CIRCUIT

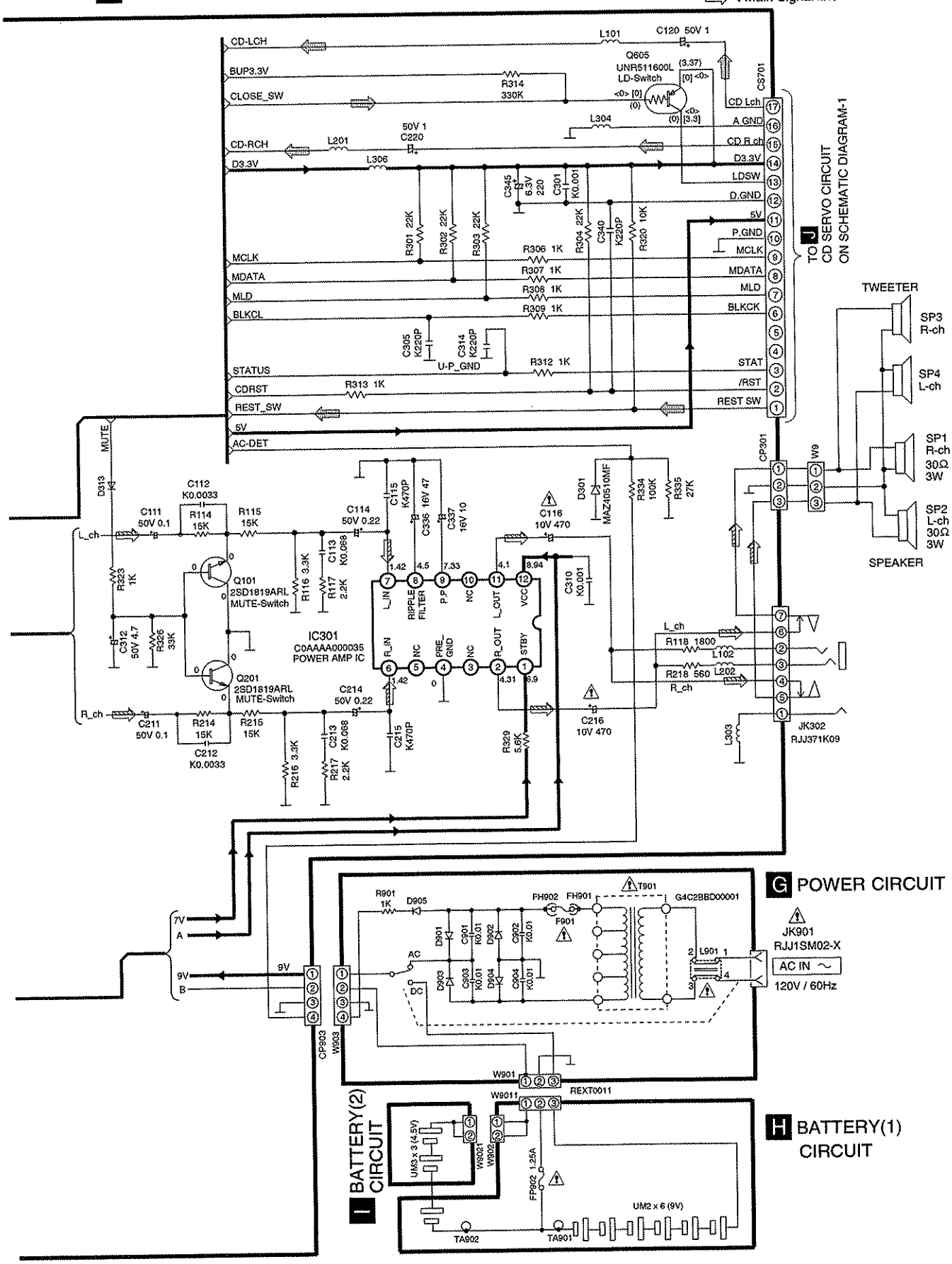
: +B SIGNAL LINE
: AM/FM Signal line
: Playback Signal line
: Rec Signal line
: CD SIGNAL LINE
: Main Signal line

B MAIN CIRCUIT SCHEMATIC DIAGRAM-3

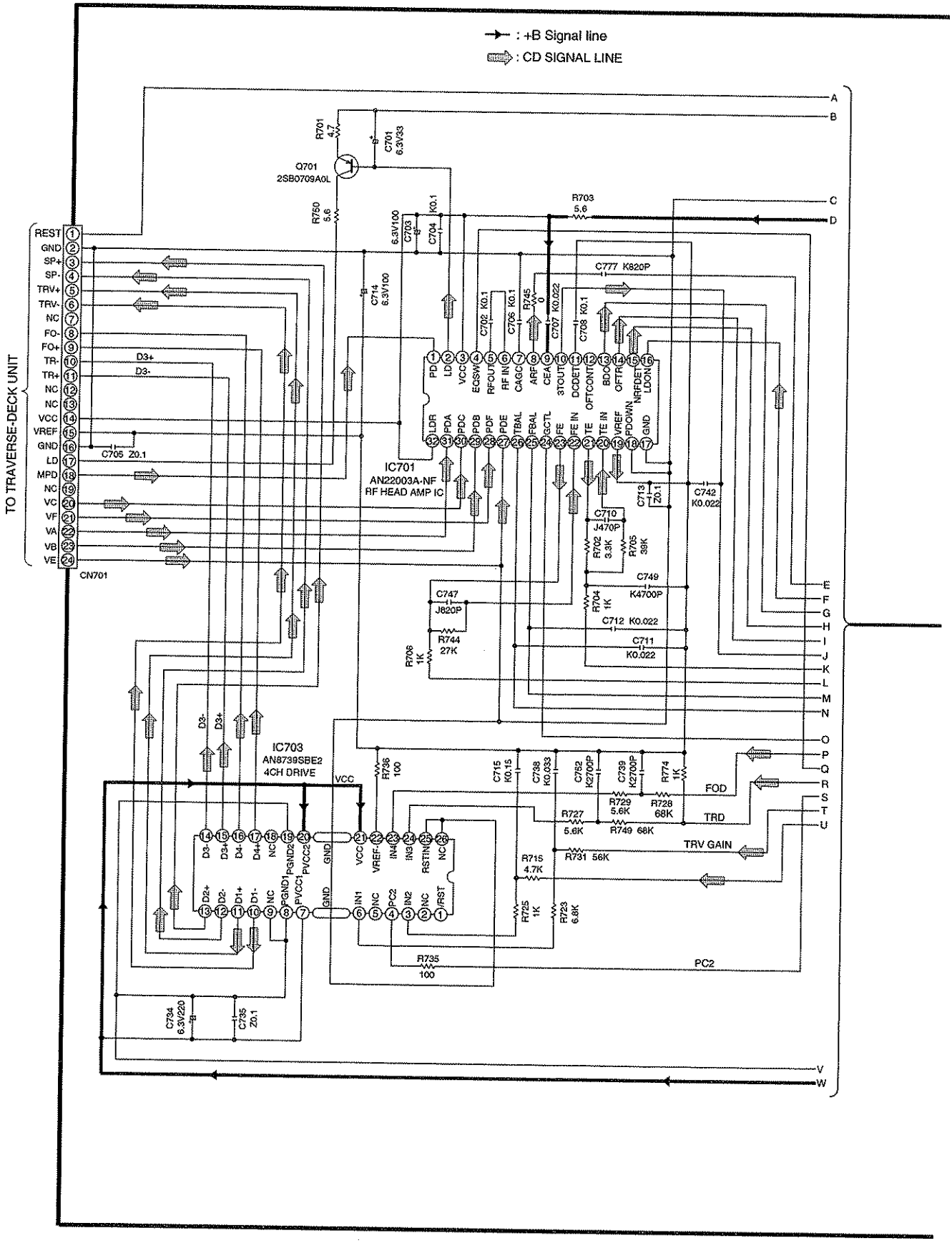


B MAIN CIRCUIT SCHEMATIC DIAGRAM-4

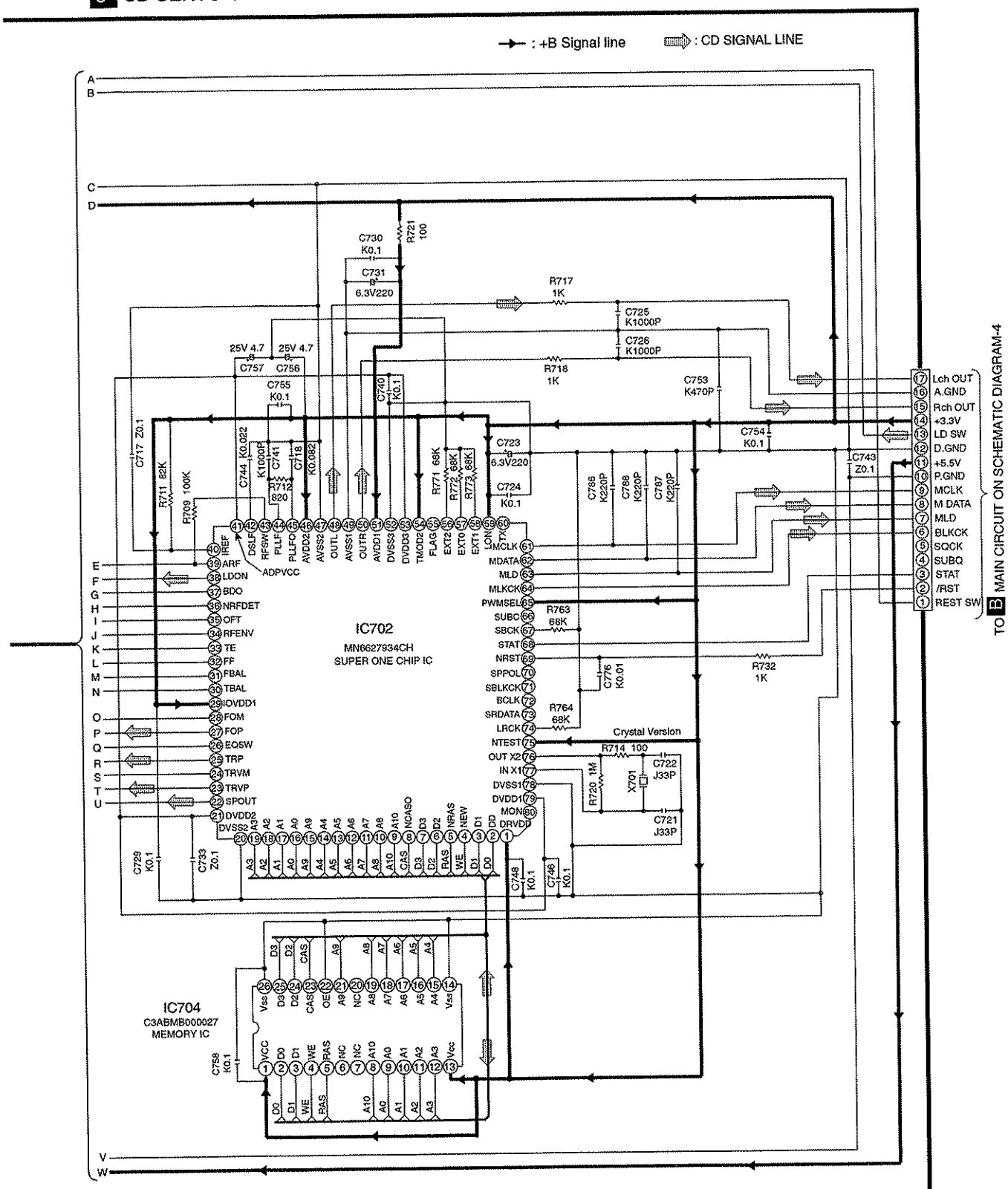
: +B SIGNAL LINE : CD SIGNAL LINE : Main Signal line



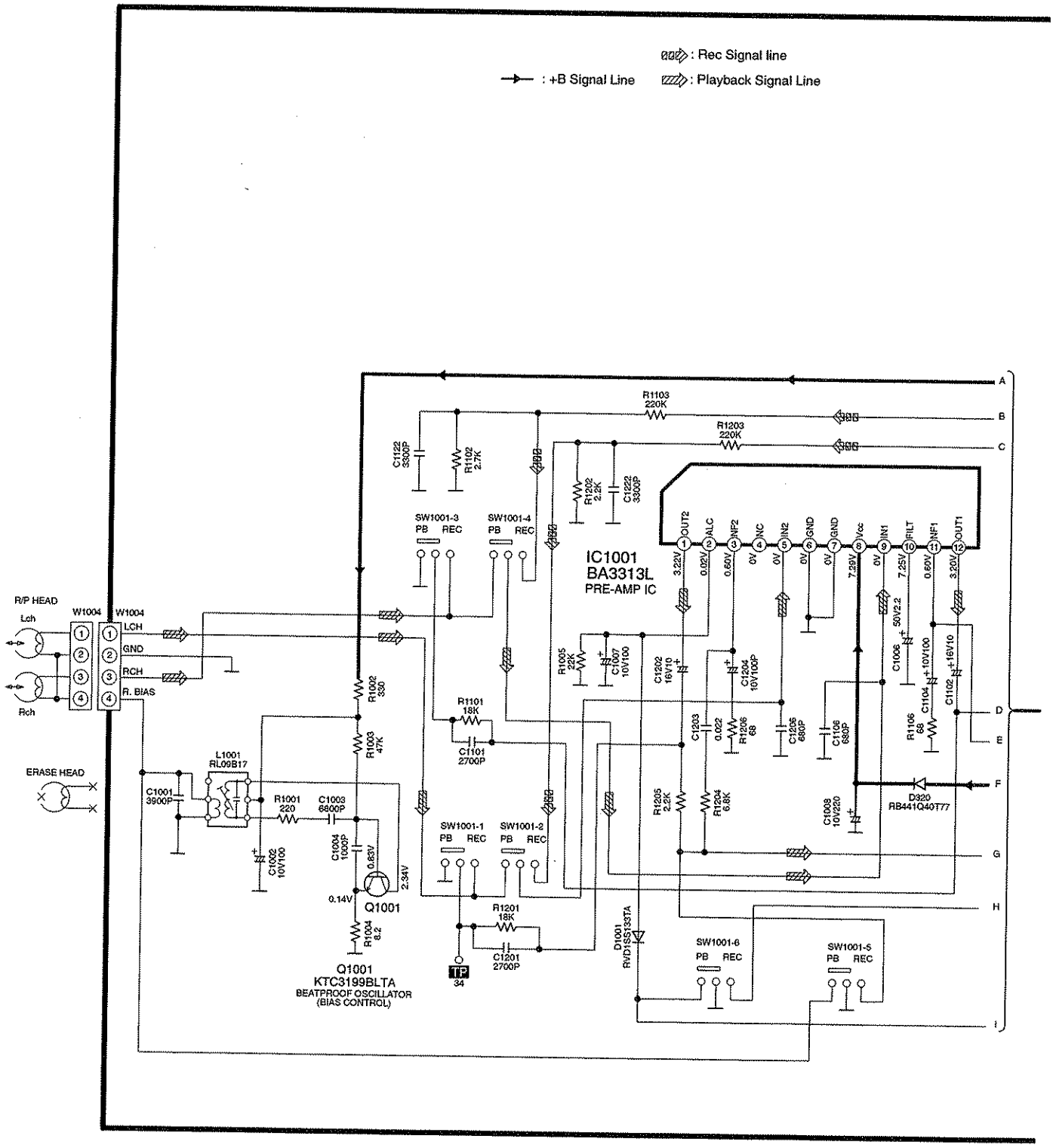
J CD SERVO CIRCUIT SCHEMATIC DIAGRAM-1



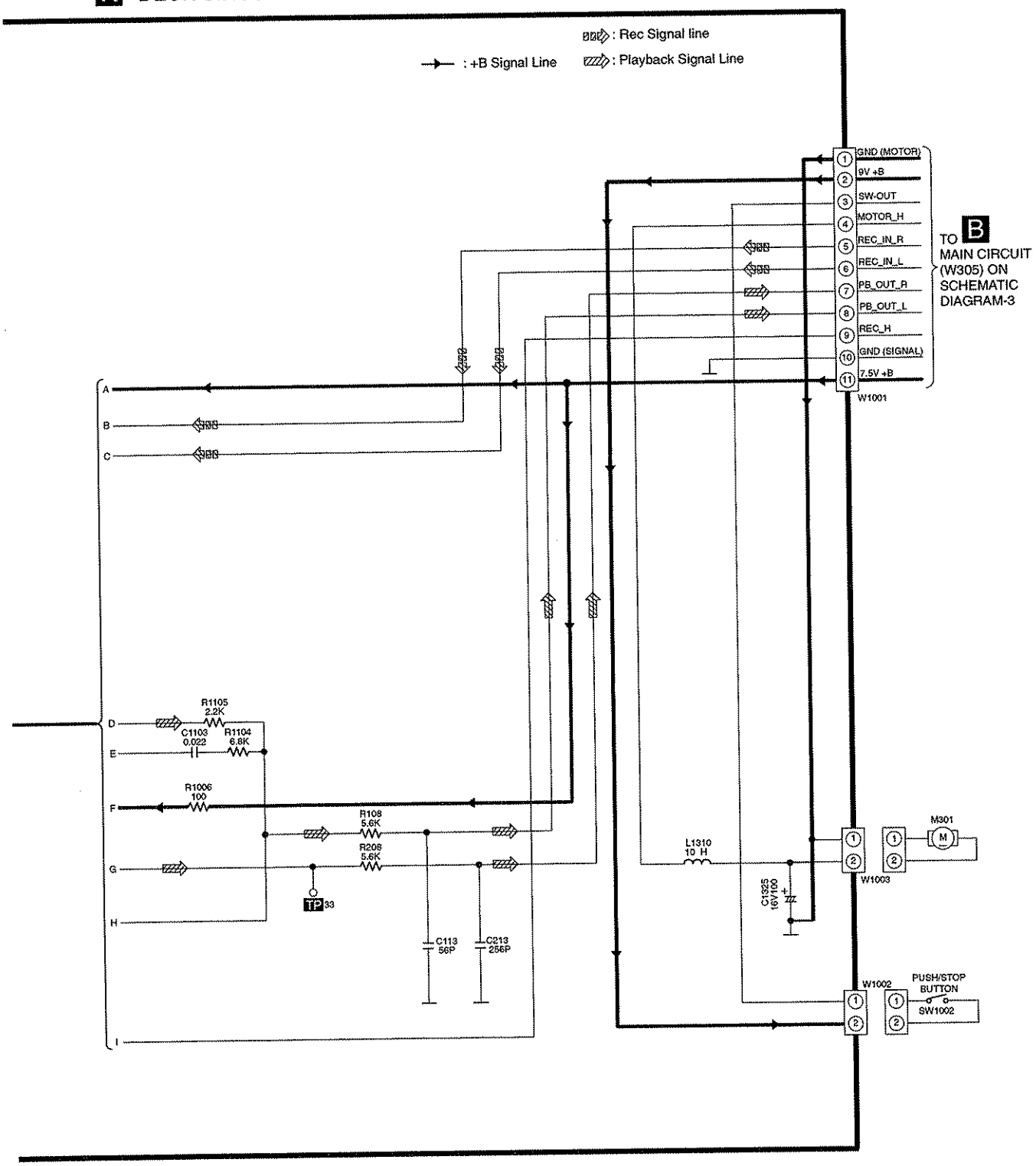
J CD SERVO CIRCUIT SCHEMATIC DIAGRAM-2



K DECK CIRCUIT SCHEMATIC DIAGRAM-1

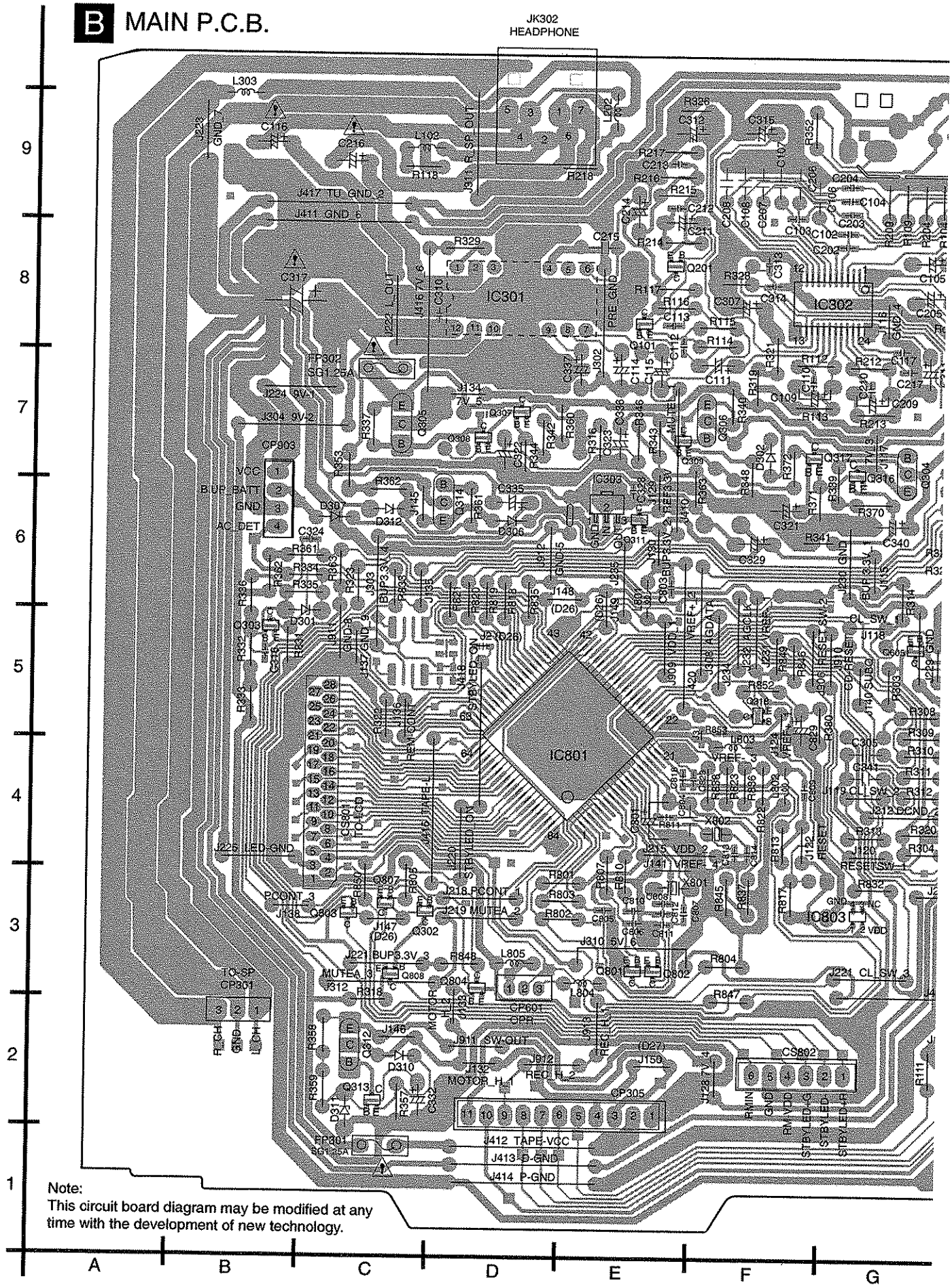


K DECK CIRCUIT SCHEMATIC DIAGRAM-2



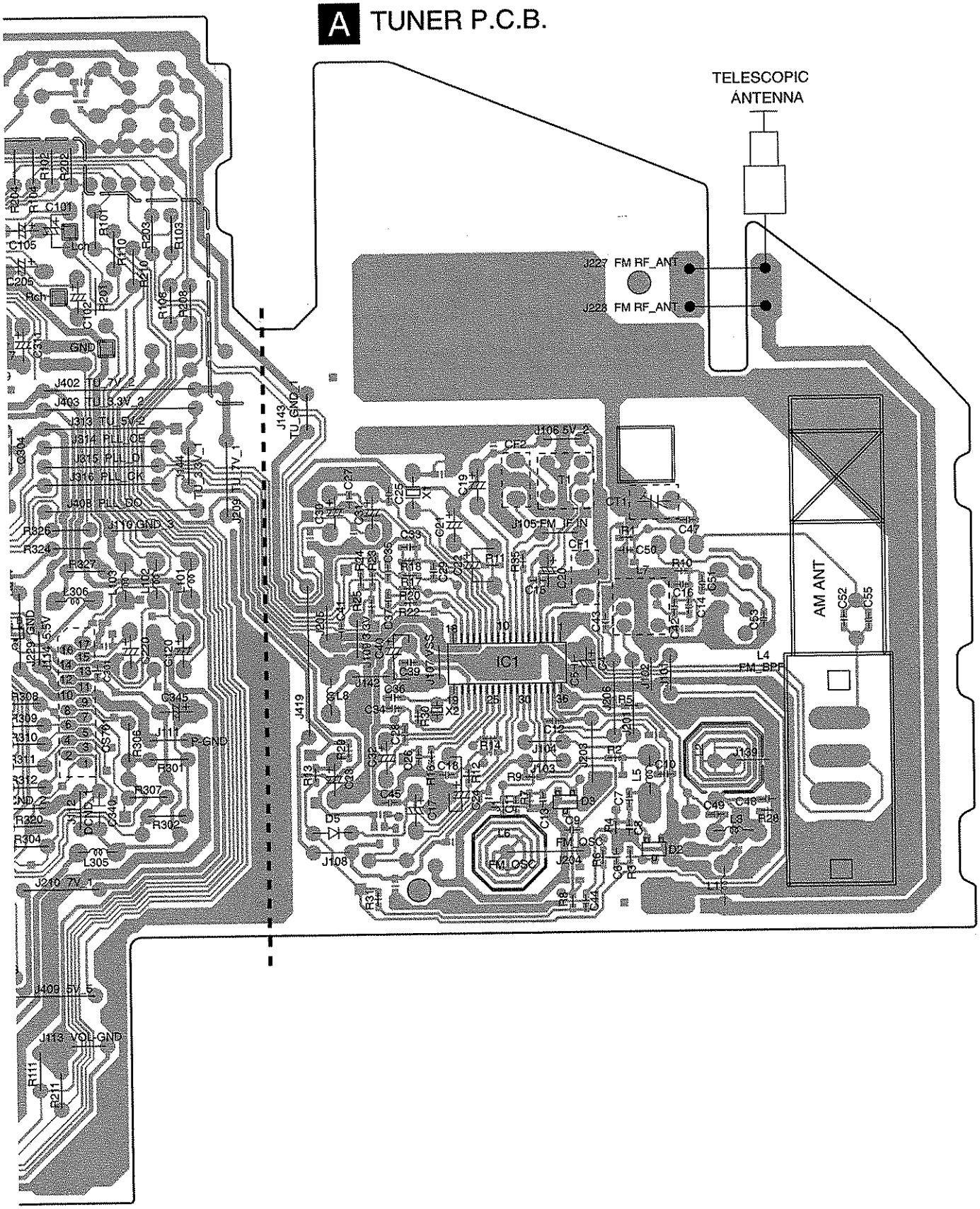
13 Printed Circuit Board Diagram

B MAIN P.C.B.



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

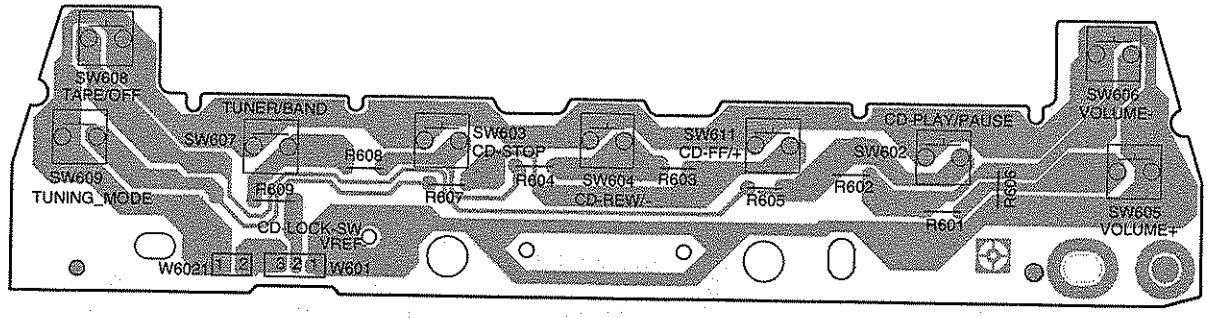
A TUNER P.C.B.



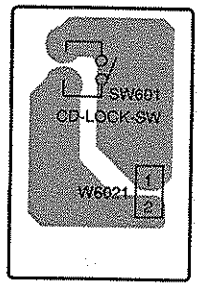
RX-CD29 TUNER & MAIN P.C.B.

H I J K L M N

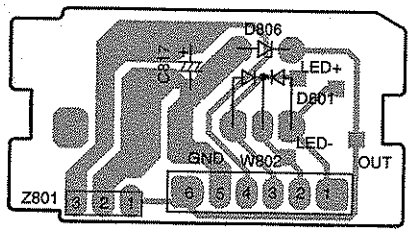
C PANEL P.C.B.



D CD OPEN P.C.B.



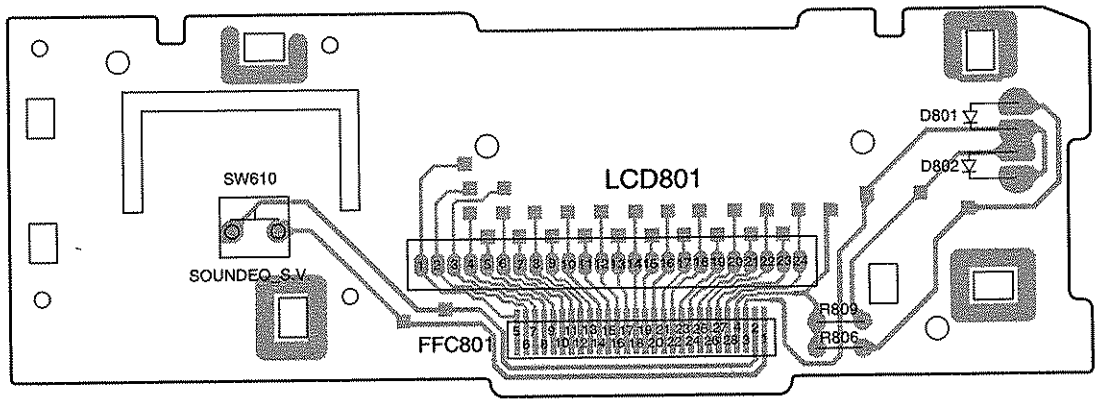
F LED P.C.B.



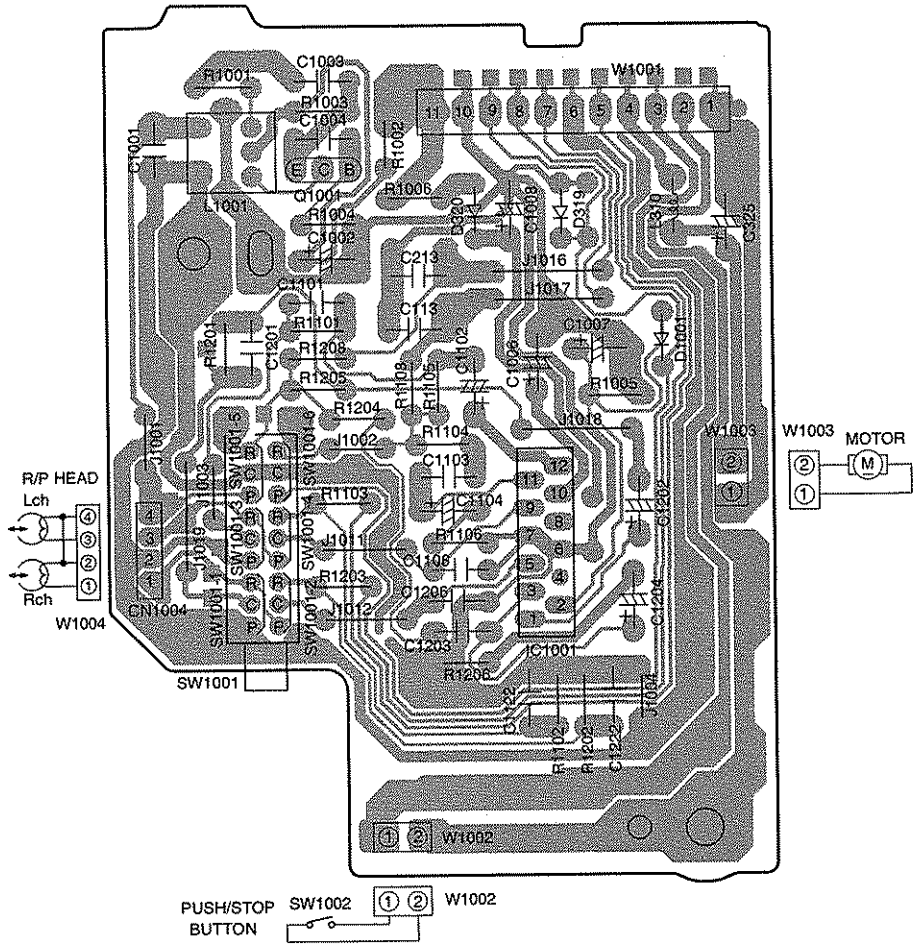
Note:
This circuit board diagram may be modified at any time with the development of new technology.

RX-D29 PANEL P.C.B. & CD LOCK P.C.B. & LED P.C.B.

E LCD P.C.B.

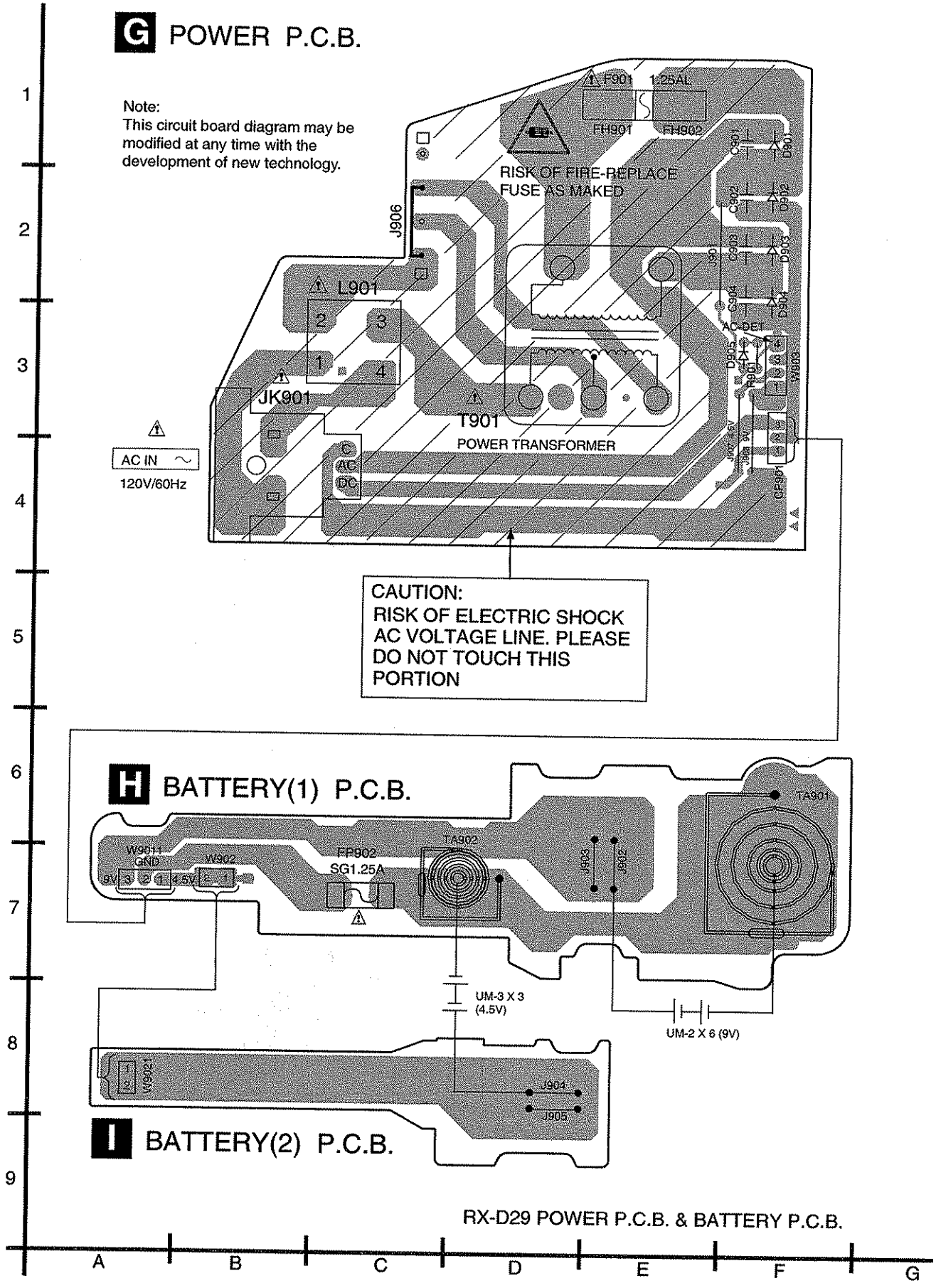


K DECK P.C.B.

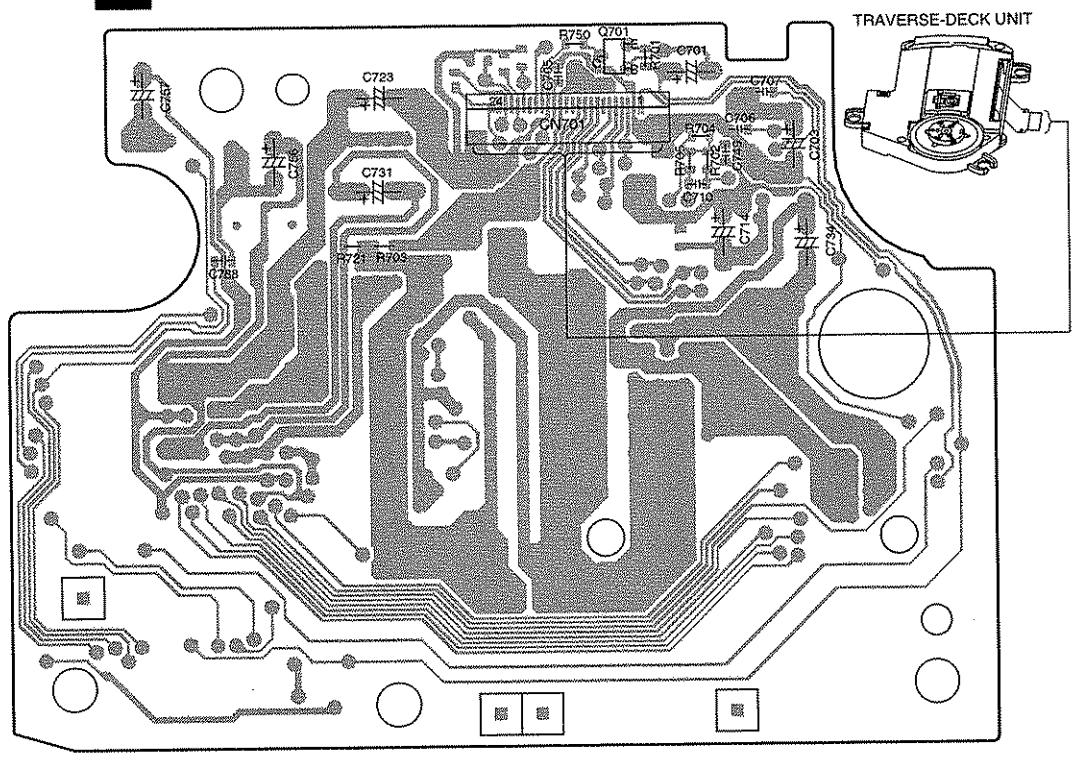


Note:
This circuit board diagram may be modified at any time with the development of new technology.

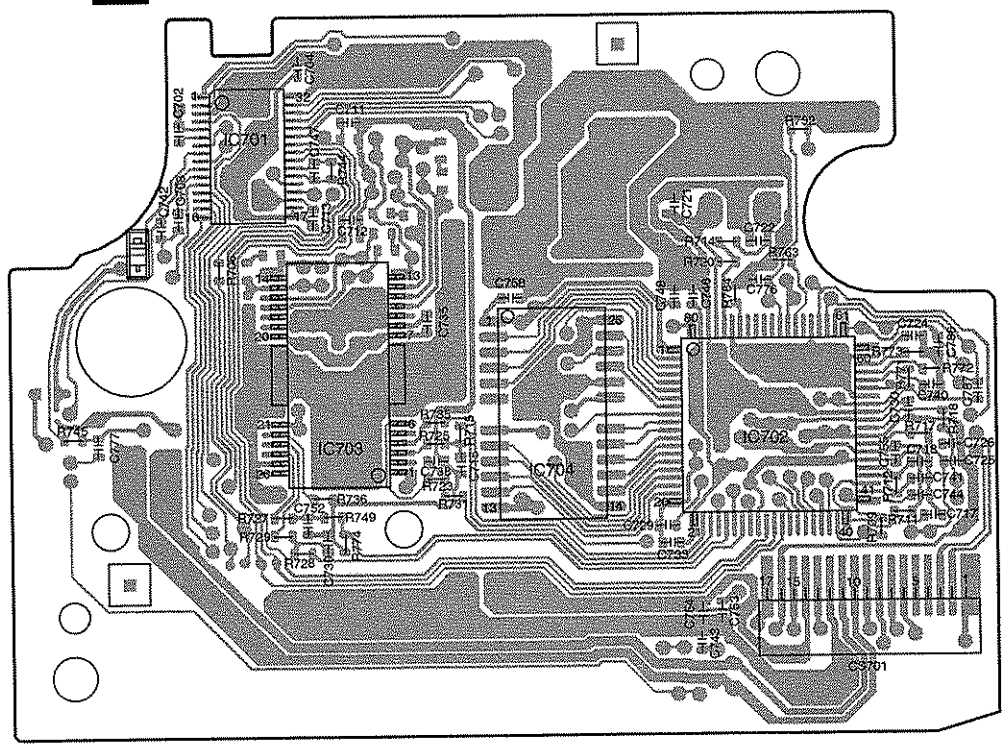
RX-D29 DECK P.C.B. & LED P.C.B.


G POWER P.C.B.
Note:
This circuit board diagram may be modified at any time with the development of new technology.
F901 1.25AL
FH901
FH902
RISK OF FIRE-REPLACE FUSE AS MAKED
J906
L901
JK901
T901
POWER TRANSFORMER
AC IN
120V/60Hz
AC
DC
AC-DET
CAUTION:
RISK OF ELECTRIC SHOCK AC VOLTAGE LINE. PLEASE DO NOT TOUCH THIS PORTION
H BATTERY(1) P.C.B.
W9011
GND
W902
9V
4.5V
FP902
SG1.25A
TA902
TA901
J903
J902
UM-3 X 3
(4.5V)
UM-2 X 6 (9V)
W9021
J904
J905
I BATTERY(2) P.C.B.
RX-D29 POWER P.C.B. & BATTERY P.C.B.

J CD SERVO P.C.B. (SIDE:A)



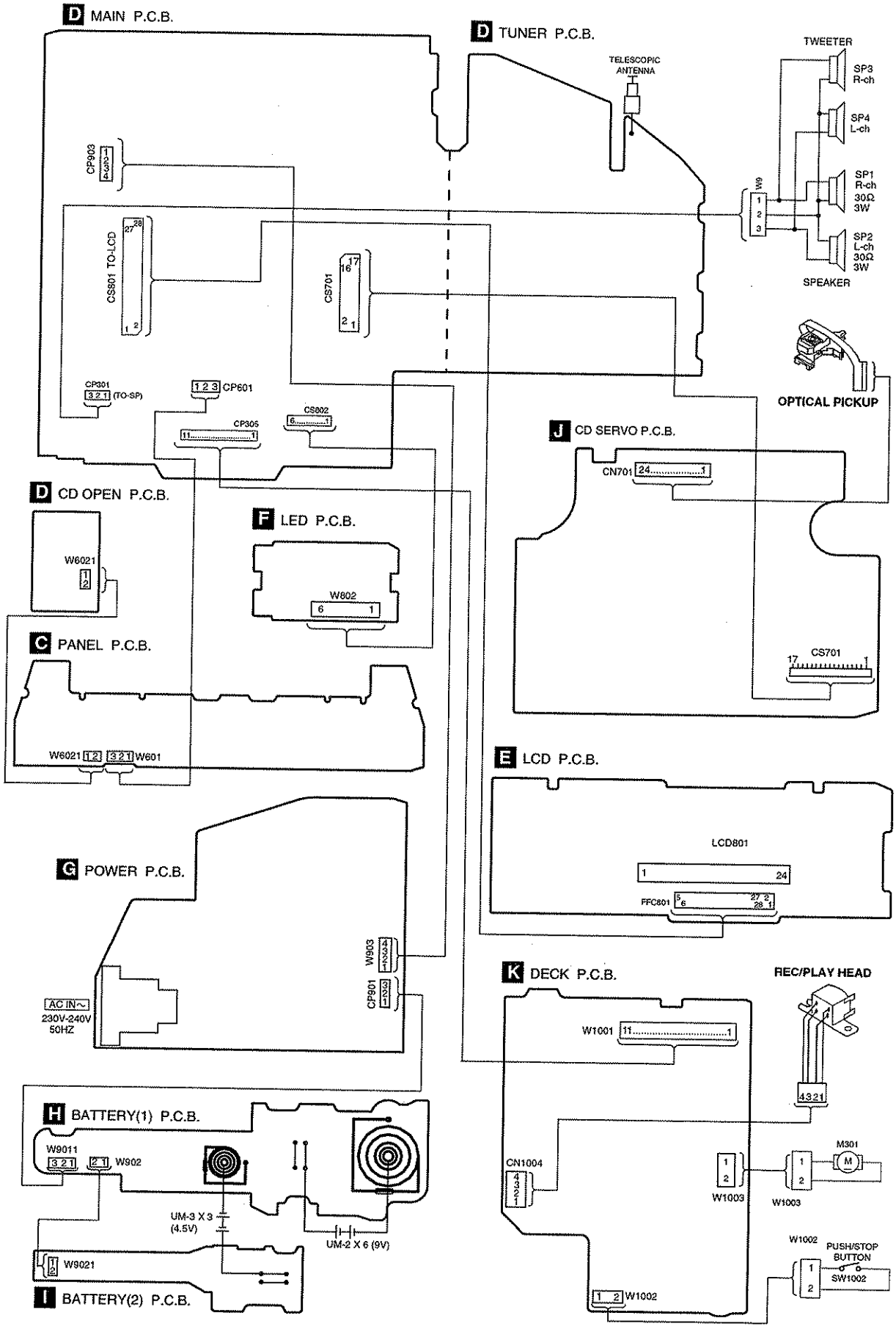
J CD SERVO P.C.B. (SIDE:B)



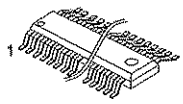
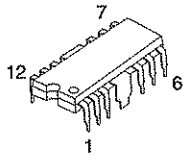
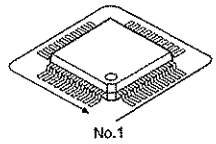
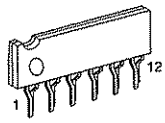
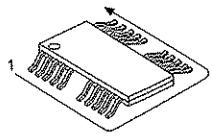
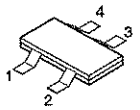
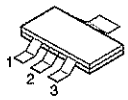
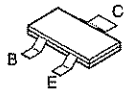
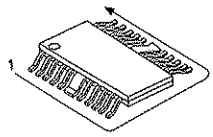
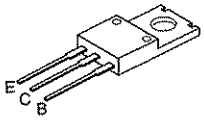
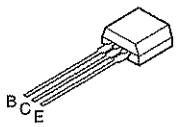
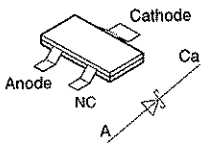
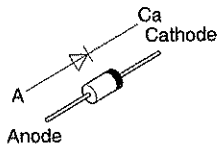
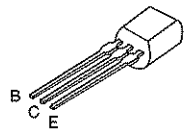
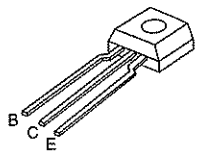
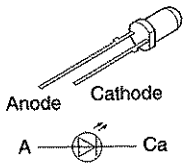
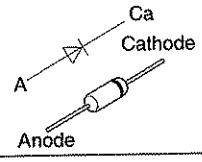
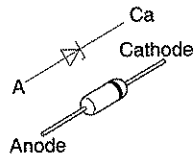
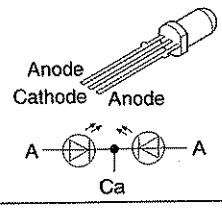
Note:This circuit board diagram may be modified at any time with the development of new technology.

RX-D29 CD SERVO P.C.B.

14 Wiring Connection Diagram



15 Type Illustration of IC's, Transistors and Diodes

C1BB00000846 C1BB00000717 AN22003A-NF 	C0AAAA000035 	MN6627934CH MN101C66D29 	BA3313L (12P) 	C3ABMB000027 
C0EBE0000230 	S-812C33AUA 	2SD1819ARL UNR521400L UNR511400L UNR511600L 2SB0709A0L 	AN8739SBE2 	2SA20570P 
KTC3199BLTA 	B0CDAB000019 	B0EAKM000118 	KTA12710YTA KTC3202YTA 	B1ACND000003 
B3ACA0000205 	RVD1SS133TA RB411Q-40T RB411Q40T77 	MAZ41300MF MAZ40510MF 	B3AG0000079 	

16 Measurements and Adjustments

16.1. Tuner Section

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT
1. Set volume control to maximum.
2. Set power source voltage to 9V.
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.	600 kHz	Point of non-interference.(on/ about 600kHz)	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 ANT Coil)	Adjust for maximum output.
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	1500 kHz	Point of non-interference.(on/ about 600kHz)	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.
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	450 kHz	Point of non-interference.(on/ about 600kHz)	Headphone Jack (32Ω) Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.	T1 (AM IFT Trimmer)	Adjust for maximum output.
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	520 kHz	Point of non-interference.(on/ about 600kHz)	Headphone Jack (32Ω) Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.	L7 (AM OSC 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.	106.1 kHz	Point of non-interference.(on/ about 600kHz)	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] L5 (FM ANT Coil)	Adjust for maximum output.

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

● HEAD AZIMUTH ALIGNMENT

Test Tape	Iindicator (Electronic Voltmeter or Oscilloscope)	Adjustment	Remark
ATT-113CN (8 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.	Azimuth Screw (Shown in Fig.3)	1. Insert a test tape 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 screwlock to the azimuth adjusting screw. (Screw-locking bond: RZZ0L01)

● TAPE SPEED ALIGNMENT

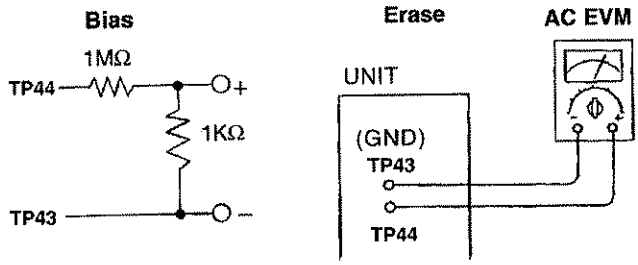
Test Tape	Equipment Connection Electronic Counter	Adjustment	Specification	Remarks
ATT-111N	Headphone Jack (32Ω) Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.	-	3000 ± 60 Hz	Play mode

● BIAS AND ERASE VOLTAGE CHECK

1. Set the unit to TUNER mode.
2. Insert the Normal blank tape (QZZCRA) into DECK and set the unit to "REC" mode (use " ● REC/STOP" key).

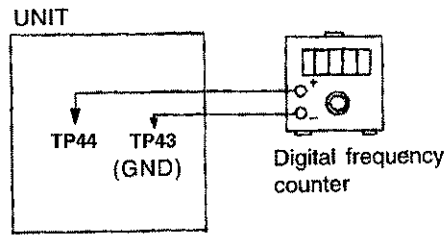
3. Measure and make sure that the output is within the standard value.
4. Insert the CrO2 tape (QZZCRX).
5. Repeat steps 2 and 3.

Bias voltage for Deck (Standard value) : 15.0mV ± 2.0mV



● BIAS FREQUENCY ADJUSTMENT (DECK)

1. Set the unit to TUNER mode.
2. Insert the Normal blank tape (QZZCRA) into DECK and set the unit to "REC" mode (use " ● REC/STOP" key).
3. Adjust L1001 so that the output frequency is within the standard value.



16.2. CD Section

Alignment is unneccessary for CD section of this unit.

16.2.1. Alignment Points

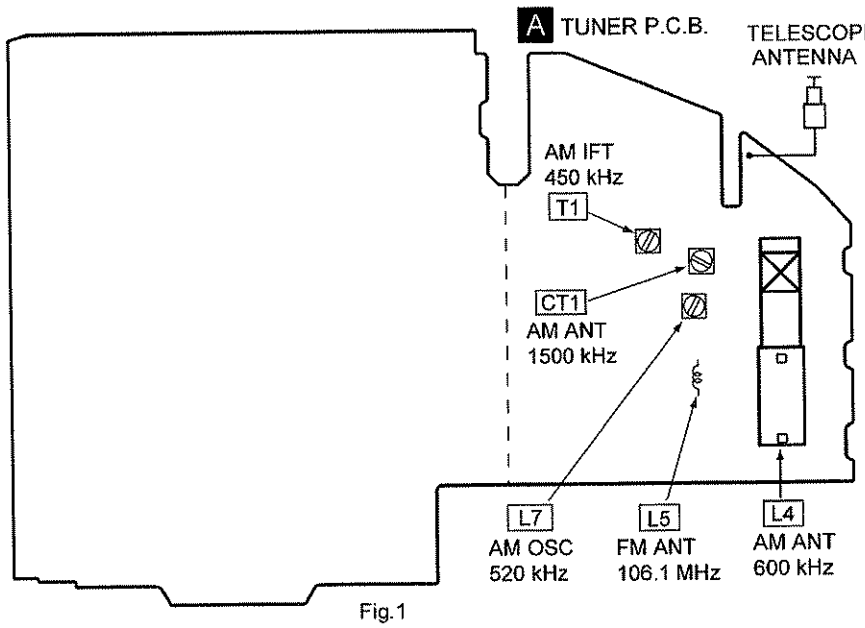


Fig.1

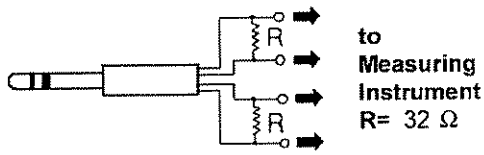


Fig. 2

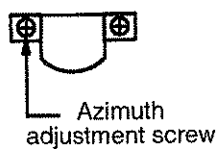


Fig.3

17 Terminal Functions of ICs

• IC302 (C1BB00000717) Sound

Pin No.	Mark	I/O	Function
1	VIN1	I	1 ch volume input terminal
2	VIN2	I	2 ch volume input terminal
3	SEL2	O	2 ch input selector output terminal
4	SEL1	O	1 ch input selector output terminal
5	A1	I	1 ch input terminal A
6	A2	I	2 ch input terminal A
7	B1	I	1 ch input terminal B
8	B2	I	2 ch input terminal B
9	C1	I	1 ch input terminal C
10	C2	I	2 ch input terminal C
11	FILTER	—	1/2 VCC terminal
12	GND	—	Grounding terminal
13	SC	I	serial clock input terminal
14	SI	I	serial data input terminal
15	VCC	—	Power supply terminal
16	OUT2	O	2 ch output terminal
17	OUT1	O	1 ch output terminal
18	BOUT1	I	1 ch bass filter setting terminal
19	BNF1	I	1 ch bass filter setting terminal
20	BOUT2	I	2 ch bass filter setting terminal
21	BNF2	I	2 ch bass filter setting terminal
22	TNF2	I	2 ch treble filter setting terminal
23	TNF1	I	2 ch treble filter setting terminal
24	CAP	I	N.C.

• IC701 (AN22003A-NF) RF AMP

Pin No.	Mark	I/O	Function
1	PD	I	APC amp input terminal
2	LD	O	APC amp output terminal
3	VCC	-	Vcc terminal
4	EQSW	-	RFchange terminal
5	RF OUT	O	RF add operation output terminal
6	RF IN	I	AGC input terminal
7	CAGC	-	AGC loop filter terminal
8	ARF	O	AGC output terminal
9	CEA	-	HPF capacitance connect terminal
10	3T OUT	O	3 TENV output terminal
11	DCDET	-	Detect HPF capacitance connect terminal
12	OFT CONT	-	OFTR detect terminal
13	BDO	O	BDO output terminal
14	OFTR	O	OFTR output terminal
15	NRFDET	O	NRFDET output terminal
16	LDON	-	LDON terminal
17	GND	-	Grounding terminal
18	PDOWN	-	Power down RF add operation terminal
19	VREF	O	VREF output terminal
20	TE IN	I	TE amp input terminal
21	TE	O	TE amp output terminal
22	FE IN	I	FE amp input terminal
23	FE	O	FE amp output terminal
24	GCTL	I/O	RF/FE/TE Gain terminal
25	FBAL	I/O	FBAL terminal
26	TBAL	I/O	TBAL terminal
27	PDE	I	Tracking signal input terminal 1
28	PDF	I	Tracking signal input terminal 2
29	PDB	I	Focus signal input terminal 2 and RFadd operation amp input terminal 2
30	PDC	O	RFadd operation amp input terminal 3
31	PDA	I	Focus signal input terminal 1 and RFadd operation amp input terminal 1
32	LDR	I/O	LD standard voltage RFadd operation amp input terminal

• IC703 (AN8739SBE2) Drive IC

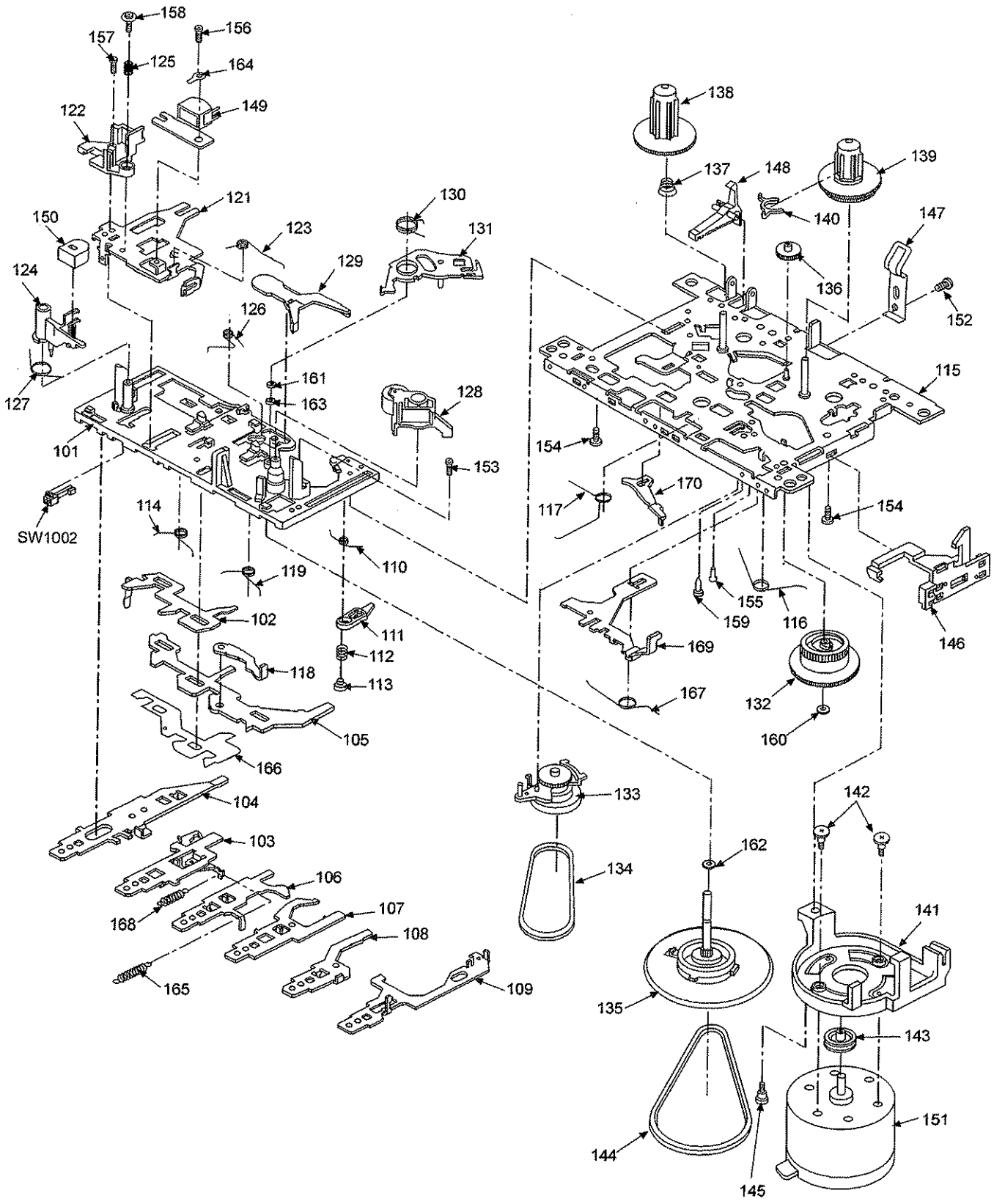
Pin No.	Mark	I/O	Function
1	/RST	O	Reset output terminal
2	NC	-	NO Connection
3	IN2	I	Motor driver 2 intput terminal
4	PC2	I	PC2 power cutintput terminal
5	NC	-	NO Connection
6	IN1	I	Motor driver 1 intput terminal
7	PVCC1	-	Driver VCC terminal 1
8	PGND1	-	Driver GND terminal 1
9	NC	-	NO Connection
10	D1-	O	Motor driver 1 reverse outtput terminal
11	D1+	O	Motor driver 1 forward outtput terminal
12	D2-	O	Motor driver 2 reverse outtput terminal
13	D2+	O	Motor driver 2 forward outtput terminal
14	D3-	O	Motor driver 3 reverse outtput terminal
15	D3+	O	Motor driver 3 forward outtput terminal
16	D4-	O	Motor driver 4 reverse outtput terminal
17	D4+	O	Motor driver 4 forward outtput terminal
18	NC	-	NO Connection
19	PGND2	-	Driver GND terminal 1
20	PVCC2	-	Driver VCC terminal 2
21	VCC	I/O	VCC terminal
22	VREF-	I	VREF intput terminal
23	IN4	I	Motor driver 4 intput terminal
24	IN3	I	Motor driver 3 intput terminal
25	RSTIN	I	Reset input terminal
26	NC	-	NO Connection

• IC801 (MN101C66DTC1)

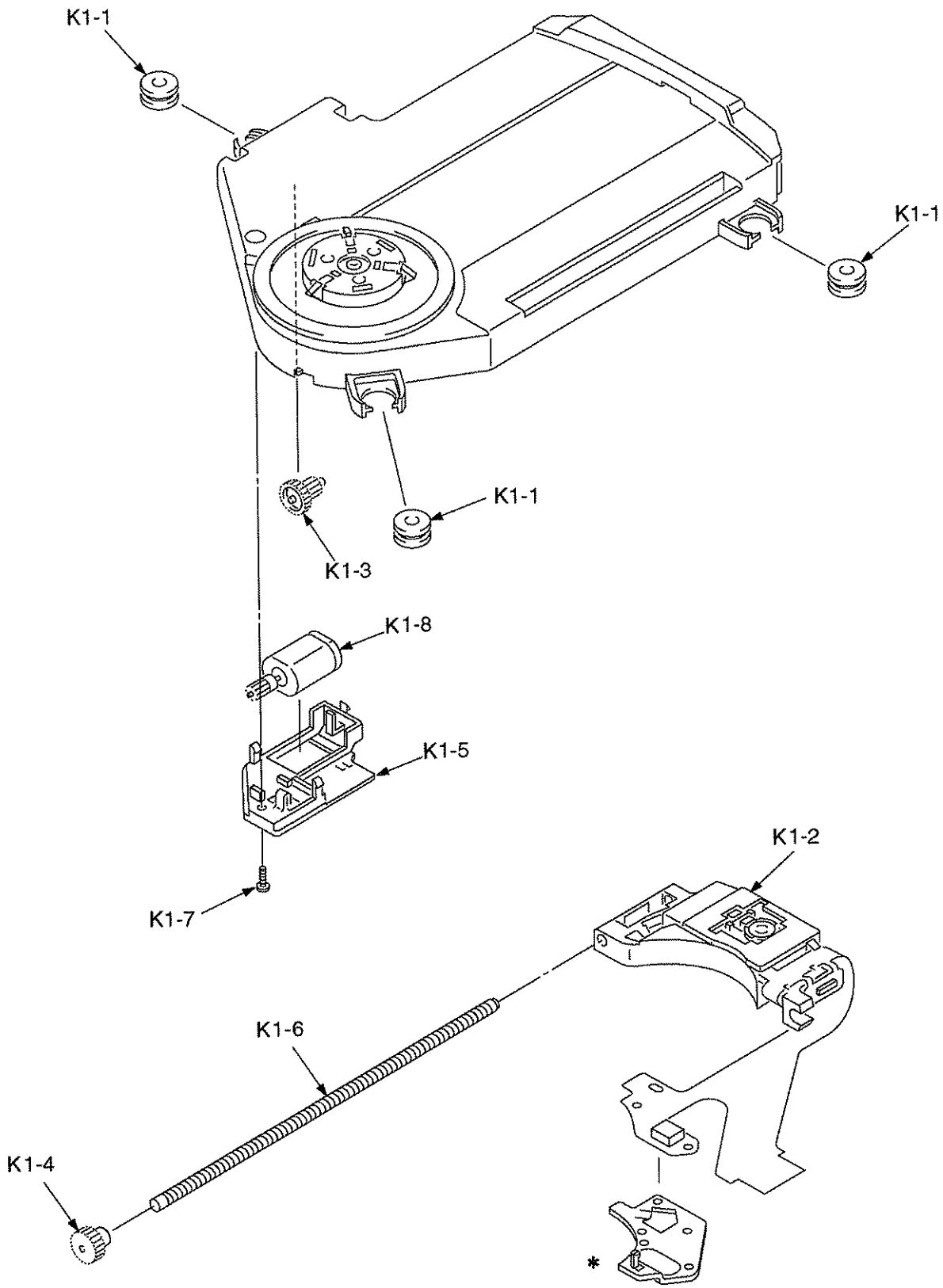
Pin No.	Mark	I/O	Function
1	VLC1	-	LCD bias
2	VLC2	-	LCD bias
3	VLC3	-	LCD bias
4	NC	-	NO Connection
5	NC	-	NO Connection
6	MUTE_A	O	Muting signal A
7	PCONT	O	Power control output
8	MBP1	O	Beat proof control 1
9	MBP2	O	Beat proof control 2
10	NATRST	I	Connect to GND
11	VSS	-	GND
12	OSC OUT	O	8MHz OSC output
13	OSC IN	I	8MHz OSC input
14	MMOD	I	Connect to GND
15	XIN	I	32 kHz OSC input
16	XOUT	O	32 kHz OSC output
17	VDD	-	VDD +3.3V
18	RESET	I	Reset input
19	VREF+	-	+3.3V Reference for A/D
20	KEY	A-D	Key input
21	REG_1	A-D	Region setting
22	REG_2	I	Unused (connect to GND)
23	YOB1	A-D	Unused (connect to GND)
24	PDET	A-D	Power supply voltage detect
25	YOB2	I	Unused (pull up)
26	AGCLK	O	ASP IC clock
27	AGDATA	O	ASP IC data

Pin No.	Mark	I/O	Function
28	VREF-	-	Analog reference GND
29	VDD	-	VDD +3.3V
30	MDATA	O	CD signal processor control data out
31	STAT	I/O	CD status input
32	MCLK	O	CD signal processor control clock out
33	MLD	O	CD signal processor control load out
34	NOT USE	O	Unused (connect to GND)
35	NOT USE	O	Unused (connect to GND)
36	REST-SW	I	CD reset switch input
37	CD-REST	I/O	CD rest control
38	CLOSE SW	I	CD close/open detect
39	REM_CONT	I/O	Remote control output L
40	REC-H	I	Tape REC H
41	TAPE-L	I	Tape play L
42	STBY-LED 1	O	Stby-led control output
43	BLKCK	I/O	CD subcode block clock
44	RMIN	I	Remote control input
45	VCCDET	I	Remote control input
46	ACDET	I	AC power supply detect
47	VDD	-	VDD +3.3
48	E-DATA	O	Eeprom data
49	E-CLK	O	Eeprom clock
50	E-CS	O	Eeprom chip select
51	PLL-DO	I/O	PLL count data input
52	PLL-DI	O	TU PLL-data output
53	PLL-CK	O	TU PLL-clock output
54	PLL-CE	O	TU PLL-CE output
55	STBY-LED2	O	Stby-LED active H
56~59	NOT USE	I	Unused (connect to GND)
60~79	SEG 19~0	O	LCD segment drive output
80	NC	-	NO Connection
81~84	COM 0~3	O	LCD common output

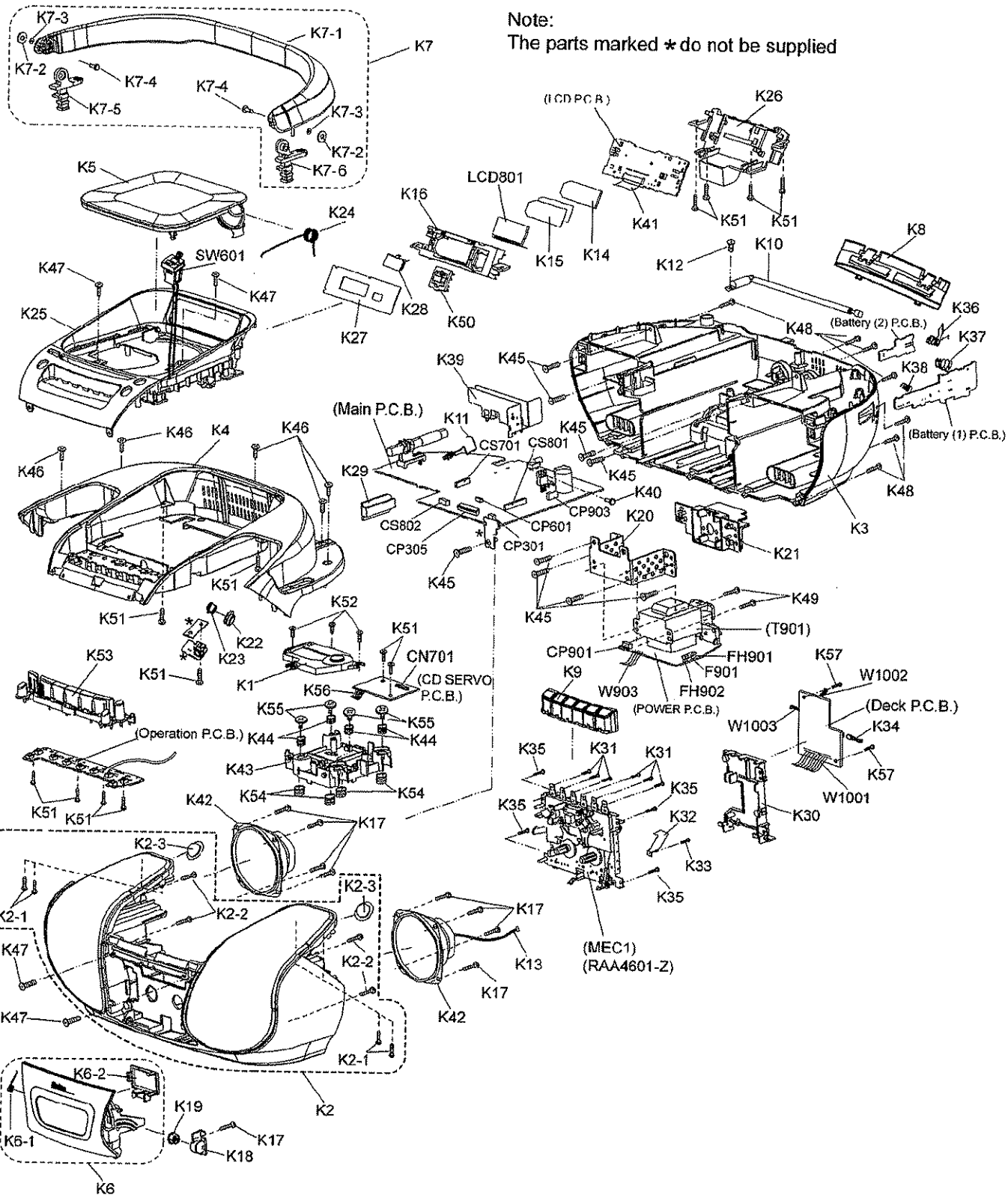
18 Mechanism Parts Location



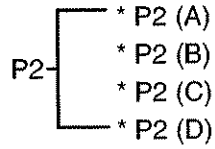
19 Cabinet Parts Location

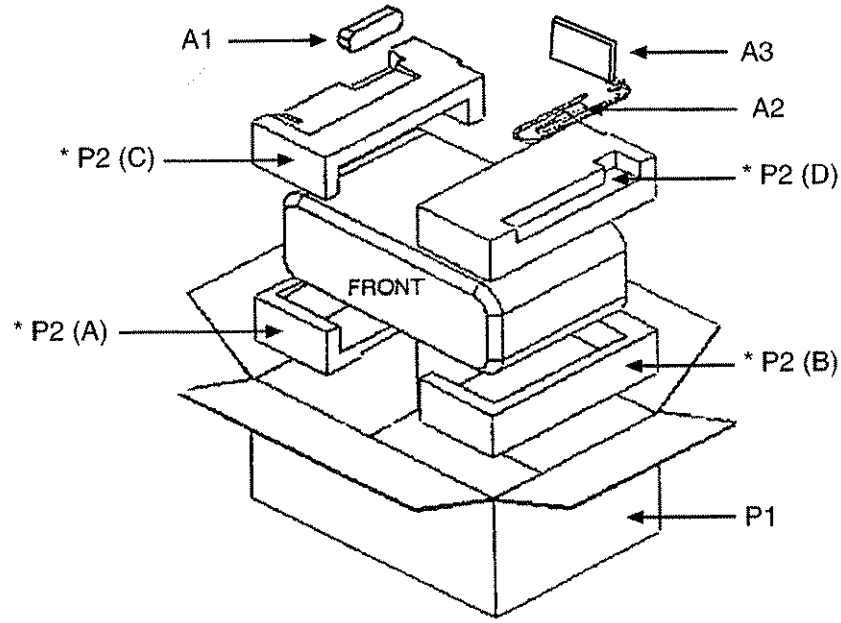


Note: We do not supply those items of parts marked ✱.


Note:
The parts marked * do not be supplied
K7-3
K7-1
K7
K7-2
K7-4
K7-4
K7-5
K7-3
K7-2
K7-6
K5
K24
SW601
K47
K47
K25
K27
K28
K50
K16
LCD801
K15
K14
(LCD P.C.B.)
K41
K26
K51
K51
K8
K10
K12
K36
(Battery (2) P.C.B.)
K48
K37
K38
(Battery (1) P.C.B.)
K39
K45
K45
K48
K3
(Main P.C.B.)
K11
CS701
CS801
K29
K40
CP903
CS802
CP601
CP305
CP301
K45
K20
K21
K46
K4
K46
K46
K51
K51
K52
K22
K23
K51
K1
CN701
(CD SERVO P.C.B.)
K56
K49
(T901)
CP901
FH901
F901
K9
W903
FH902
(POWER P.C.B.)
K57
W1002
(Deck P.C.B.)
W1003
K34
K57
W1001
K30
K53
K51
(Operation P.C.B.)
K55
K44
K55
K44
K43
K54
K54
K51
K51
K42
K17
K35
K31
K31
K35
K35
K32
K33
K35
(MEC1)
(RAA4601-Z)
K2-3
K2-1
K2-2
K2-3
K47
K2-2
K17
K13
K17
K42
K47
K2-1
K2
K6-2
K19
K17
K6-1
K18
K6

20 Packaging





21 Replacement Parts List

Notes:

- Important safety notice:

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

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

  When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

1. (M) Indicates parts that are supplied **PAVCSG**
2. The reference number SA represent the grease tool usea for unit.
3. The marking (RTL) indicates that 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 isdependent 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.

Ref. No.	Part No.	Part Name & Description	Remarks
MECHANISM PARTS			
101	RVD0001	BASE ASSEMBLY	(M)
102	RFY905ZA	SWITCH ACTUATOR	(M)
103	RFY881ZA	PUSH BUTTON ACTUATOR	(M)
104	RFY896ZA	REC BUTTON LEVER	(M)
105	RUM0004	PLAY BUTTON LEVER AS	(M)
106	RUM0005	REW BUTTON LEVER	(M)
107	RUM0006	FF BUTTON LEVER	(M)
108	RFY899ZA	STOP BUTTON LEVER	(M)
109	RFY952ZA	PAUSE BUTTON LEVER	(M)
110	RFS837ZA	P CONTROL SPRING	(M)
111	RFS829ZA	PAUSE LEVER	(M)
112	RFS813ZA	PAUSE LEVER SPRING	(M)
113	RFX174ZA	PAUSE STOPPER	(M)
114	RUK0002	BUTTON LEVER SPRING	(M)
115	RFU159ZA	CHASSIS ASSEMBLY	(M)
116	RFS815ZA	E ACTUATOR SPRING	(M)
117	RUK0003	REC BUTTON LEVER SPR	(M)
118	RUM0007	E KICK LEVER	(M)
119	RUK0004	BUTTON LEVER SPRING	(M)
121	RFU156ZA	HEAD PANEL	(M)
122	RFU168ZA	HEAD BASE	(M)
123	RFS845ZA	PINCH ROLLER SPRING	(M)
124	RFY926ZA	MG ARM	(M)
125	RFS447ZA	AZIMUTH SPRING	(M)
126	RUK0005	M CONTROL SPRING	(M)
127	RFS821ZA	MG ARM SPRING	(M)
128	RYJ0001	PINCH ROLLER ARM ASS	(M)
129	RUM0008	SENSING LEVER	(M)
130	RFS822ZA	GEAR PLATE SPRING	(M)
131	RFY874ZA	GEAR PLATE ASSEMBLY	(M)
132	RFG136ZA	CAM GEAR	(M)
133	RFQ60ZA	RF CLUTCH ASSEMBLY	(M)
134	RUA0004	RF BELT	(M)
135	RUC0002	FLYWEEL ASSEMBLY	(M)
136	RFG110ZA	FF GEAR	(M)
137	RUK0006	BACK TENSION SPRING	(M)
138	RUZ0001	S REEL SPRING	(M)
139	RUF0002	TAKE UP REEL ASSEMBLY	(M)
140	RUZ0002	SENSOR	(M)
141	RUB0001	MOTOR BRACKET	(M)
142	RFE499ZA	SCREW	(M)
143	RUG0001	MOTOR PULLEY	(M)

Ref. No.	Part No.	Part Name & Description	Remarks
144	RUA0005	MAIN BELT	(M)
145	RFE511ZA	MB SCREW	(M)
146	RFY889ZA	EJECT SLIDE LEVER	(M)
147	RFS467ZA	PACK SPRING	(M)
148	RUM0009	RECORD SAFETY LEVER	(M)
149	RUE0002	RP HEAD	(M)
150	RUE0003	E HEAD	(M)
151	RVB0002	MOTOR	(M)
152	RUP0001	SCREW	(M)
153	RUP0002	SCREW	(M)
154	RUP0003	SCREW	(M)
155	RUP0004	SCREW	(M)
156	RUP0005	SCREW	(M)
157	RUP0006	SCREW	(M)
158	RUP0007	SCREW	(M)
159	RUP0008	SCREW	(M)
160	RUH0001	P WASHER	(M)
161	RUH0002	P WASHER	(M)
162	RUH0003	P WASHER	(M)
163	RUH0004	P WASHER	(M)
164	RUZ0003	LUG BORD	(M)
165	RUK0008	LIFT UP SPRING	(M)
166	RUZ0004	T.P.S. ACTUATOR	(M)
167	RFY896ZA	RC SLIDE LEVER SPRING	(M)
168	RUK0007	RC SPRING	(M)
169	RFY883ZA	RC SLIDE LEVER	(M)
170	RFY880ZA	RC LEVER	(M)
CABINET PARTS			
K1	RAE0240Z-5X	TRV UNIT	(M)
K1-1	RMG0648-K	FLOATING RUBBER A	(M)
K1-2	RAF0240A	PICK-UP 240A	(M)
K1-3	RDG0554	RELAY GEAR	(M)
K1-4	RDG0555	DRIVER GEAR	(M)
K1-5	RMQ1125	MOTOR SUPPORT	(M)
K1-6	RMS0782	DRIVER SHAFT	(M)
K1-7	XQN17+BG45	SCREW	(M)
K1-8	RXQ0971-4	TRV MOTOR ASSY	(M)
K2 [P]	RYKW0062B-S	FORNT CAB ASS'Y	(M)
K2 [PC] [PL]	RYKW0062-S	FORNT CAB ASS'Y	(M)
K2-1	XTV3+12G	SCREW	(M)
K2-2	XTBS26+10G	SCREW	(M)
K2-3	L0DDED000006	CERAMIC TWEETER	(M)
K3 [P]	RKST0096A-S	REAR CAB ASS'Y	(M)
K3 [PC]	RKST0096B-S	REAR CAB ASS'Y	(M)
K3 [PL]	RKST0096E-S	REAR CAB ASS'Y	(M)
K4 [P]	RKQT0034A-S	UP CAB	(M)
K4 [PC] [PL]	RKQT0034-S	UP CAB	(M)
K5	RKFT0062-S	CD LID	(M)
K6	RYFT0005-S	CASS LID UNIT	(M)
K6-1	RMEX0017	CASSETTE OPEN SPRING	(M)
K6-2	RMVT0038-S	SENSOR COVER	(M)
K7	RYHT0001-S	HANDLE BLOCK	(M)
K7-1	RKHT0014-S	HANDLE	(M)
K7-2	RHWT0022	HANDLE WASHER	(M)
K7-3	XUC2FN	HANDLE E-RING	(M)
K7-4	RMST0028	HANDLE SHAFT	(M)
K7-5	RKXT0003	HANDLE FIXTURE-L	(M)
K7-6	RKXT0004	HANDLE FIXTURE-R	(M)
K8	RKKT0153-S	BATTERY COVER	(M)
K9	RGZW0001-H	DECK BUTTON	(M)
K10	N1ACF5000001	ROD ANT	(M)
K11	RMBT0026	ROD ANT SPRING	(M)
K12	XYN3+F15FY	R. ANT SCREW	(M)
K13	REXT0012	SPEAKER TO MAIN WIRE	(M)
K14	RGLT0004	LIGHTING PIECE	(M)
K15	RMQT0180	DIFFUSION SHEET	(M)
K16	RMNT0090	LCD HOLDER	(M)
K17	XTV3+12G	SCREW	(M)
K18	RMKW0003A	DUMP GEAR HOLDER	(M)
K19	RDG0288	DUMPER GEAR	(M)
K20	RMAT0102	TRANS ANGLE	(M)
K21	RMNT0089	TRANS HOLDER	(M)

Ref. No.	Part No.	Part Name & Description	Remarks
K22	RMKW0003A	DUMP GEAR HOLDER	(M)
K23	RDG0288	DUMPER GEAR	(M)
K24	RMBT0052	CD OPEN SPRING	(M)
K25 [P]	RGKT0111A-S	UP ORNAMENT	(M)
K25 [PC] [PL]	RGKT0111-S	UP ORNAMENT	(M)
K26	RMQT0176	LCD PCB HOLDER	(M)
K27	RKWT0096-S	LCD PANEL	(M)
K28	RMVT0039	LED COVER	(M)
K29	RMQT0177	RETARDANT PIECE	(M)
K30	RMNX0071	CASSETTE MECHA CHASSIS	(M)
K31	XTN1.6+6F	SCREW	(M)
K32	RMLX0016-1	CASS REC.LEVER	(M)
K33	XTN2+3F	SCREW	(M)
K34	REXX0141-J	HEAD WIRE	(M)
K35	XTV3+12G	SCREW	(M)
K36	RJCT92001	BATT TERMINAL	(M)
K37	RJCT0002	BATT SPRING	(M)
K38	RJCT70035	SUM3 SPRING	(M)
K39	RMYT0002	HEAT SINK	(M)
K40	XTV3+6F	SCREW	(M)
K41	REET0005	LCD FFC 28P	(M)
K42	L0AA08A00005	SPEAKER	(M)
K43	RMK0600	CD CHASSIS	(M)
K44	RMG0649-A	FLOATING RUBBER B	(M)
K45	XTV3+12G	SCREWS	(M)
K46	XTV3+14G	SCREW	(M)
K47	XTN3+12GFZ	SCREW	(M)
K48	XTV3+20G	SCREWS	(M)
K49	XTV3+8F	SCREW	(M)
K50	RGUT0192-H	S.V BUTTON	(M)
K51	XTBS26+10G	SCREW	(M)
K52	RHD20064	SCREW 2.0	(M)
K53	RGUT0191-S	OPERATION BUTTON	(M)
K54	RMET0025	CD FLOATING SPRING	(M)
K55	RHD26044	SCREW	(M)
K56	REET0004	CD FFC 17P	(M)
K57	XTV3+10G	SCREW	(M)
ACCESSORIES			
A1	EUR648280	REMOTE CONTROL	(M)
A2	RJA0065-1D	AC CORD ⚠	(M)
A3	RQTT0585-P	O/I BOOK	(M)
A3 [PC]	RQTT0586-C	O/I BOOK	(M)
PACKING MATERRIALS			
P1 [P]	RPGT1237	GIFT BOX	(M)
P1 [PC]	RPGT1238	GIFT BOX	(M)
P1 [PL]	RPGT1239	GIFT BOX	(M)
P2	RPNT0468	POLYFOAM	(M)
MECHANISM			
MEC1	RAA4601-Z	DECK MECHANISM ASS'Y	(M)
P.C.B. ASS'Y			
PCB1	REPT0014A	CD PCB UNIT	(M)
PCB2	REPT0012B	MAIN PCB UNIT	(M)
PCB3	REPT0013B	MAIN PCB UNIT	(M)
INTEGRATED CIRCUITS TRANSISTORS AND DIODES			
IC1	C1BB00000846	TUNER IC	(M)
IC1001	BA3313L	PRE AMP IC	(M)
IC301	C0AAAA000035	POWER IC	(M)
IC302	C1BB00000717	VOLUME IC	(M)
IC303	S-812C33AUA	REGULATOR IC	(M)
IC701	AN22003A-NF	RF AMP IC	(M)
IC702	MN6627934CH	IC	(M)
IC703	AN8739SBE2	4CH DRIVE IC	(M)
IC704	C3ABMB000027	DRAM	(M)
IC801	MN101C66DTC1	U-IC	(M)
IC803	C0EBE0000230	RESET IC	(M)
Q101	2SD1819ARL	TRANSISTOR	(M)
Q201	2SD1819ARL	TRANSISTOR	(M)
Q302	UNR521400L	TRANSISTOR	(M)
Q303	2SD1819ARL	TRANSISTOR	(M)
Q304	B1ACND000003	TRANSISTOR	(M)
Q305	2SA20570P	TRANSISTOR	(M)
Q306	KTA12710YTA	TRANSISTOR	(M)
Q307	2SD1819ARL	TRANSISTOR	(M)

Ref. No.	Part No.	Part Name & Description	Remarks
Q308	2SD1819ARL	TRANSISTOR	(M)
Q309	2SD1819ARL	TRANSISTOR	(M)
Q311	UNR511400L	TRANSISTOR	(M)
Q312	2SA20570P	TRANSISTOR	(M)
Q313	2SD1819ARL	TRANSISTOR	(M)
Q314	KTC3202YTA	TRANSISTOR	(M)
Q316	2SD1819ARL	TRANSISTOR	(M)
Q317	2SD1819ARL	TRANSISTOR	(M)
Q318	2SD1819ARL	TRANSISTOR	(M)
Q701	2SB0709A0L	TRANSISTOR	(M)
Q801	2SD1819ARL	TRANSISTOR	(M)
Q802	2SD1819ARL	TRANSISTOR	(M)
Q803	UNR511400L	TRANSISTOR	(M)
Q804	UNR521400L	TRANSISTOR	(M)
Q807	UNR521400L	TRANSISTOR	(M)
Q808	UNR511400L	TRANSISTOR	(M)
Q1001	KTC3199BLTA	TRANSISTOR	(M)
D1	SVC344-AA	VARI CAP	(M)
D2	B0CDAB000019	FM VARI-CAP	(M)
D3	B0CDAB000019	FM VARI-CAP	(M)
D4	SVC344-AA	VARI CAP	(M)
D5	RVD1SS133TA	SWITCHING DIODE ⚠	(M)
D301	MAZ40510MF	DIODE	(M)
D302	RVD1SS133TA	SWITCHING DIODE	(M)
D306	RVD1SS133TA	SWITCHING DIODE	(M)
D307	RB441Q40T77	SWITCHING DIODE	(M)
D310	RVD1SS133TA	SWITCHING DIODE	(M)
D311	MAZ41300MF	DIODE	(M)
D312	MAZ41300MF	DIODE	(M)
D313	RVD1SS133TA	SWITCHING DIODE	(M)
D320	RB441Q40T77	DIODE	(M)
D601	B3AGA0000102	TWO COLOR LED	(M)
D801	B3ACA0000205	AMBER LED	(M)
D802	B3ACA0000205	AMBER LED	(M)
D806	MAZ40510MF	DIODE	(M)
D901	B0EAKM000118	RECTIFIER DIODE	(M)
D902	B0EAKM000118	RECTIFIER DIODE	(M)
D903	B0EAKM000118	RECTIFIER DIODE	(M)
D904	B0EAKM000118	RECTIFIER DIODE	(M)
D905	RVD1SS133TA	SWITCHING DIODE	(M)
D1001	RVD1SS133TA	SWITCHING DIODE	(M)
L1	RLQY30S1W-F	FM COIL	(M)
L3	RLQY30S1W-F	FM COIL	(M)
L4	G2CAEB000001	BAR ANT	(M)
L5	RLD4Y45-F	FM OSC COIL	(M)
L7	RL02B136	AM OSC COIL	(M)
L8	RLL500050T-Y	COIL	(M)
L101	Z-RWDHT16	JUMP	(M)
L102	RLQA101JT1-Y	AXIAL COIL	(M)
L201	Z-RWDHT16	JUMP	(M)
L202	RLQA101JT1-Y	AXIAL COIL	(M)
L303	RLQA101JT1-Y	AXIAL COIL	(M)
L304	RLL500050T-Y	COIL	(M)
L305	RLL500050T-Y	COIL	(M)
L306	RLL500050T-Y	COIL	(M)
L801	RLQA2R2JT1-Y	INDUCTOR	(M)
L802	RLQA2R2JT1-Y	INDUCTOR	(M)
L803	RLQA2R2JT1-Y	INDUCTOR	(M)
L804	RLQA2R2JT1-Y	INDUCTOR	(M)
L805	RLQA2R2JT1-Y	INDUCTOR	(M)
L901	ELF15N035AN	POWER COIL	(M)
L1001	RL09B17	BIAS OSC COIL	(M)
L1311	RLQA100KT-G	INDUCTOR	(M)
LCD			
LCD801	L5ACAEC00023	LCD	(M)
CERAMIC FILTERS			
CF1	J0B1075A0101	FM CERAMIC FILTER	(M)
CF2	RLFCFA450L4B	AM FILTER	(M)
IFT AND TRANSFORMER			
T1	G2BAC0000051	IFT	(M)
T901	G4C2BBD00001	POWER TRANSFORMER ⚠	(M)
CONNECTOR			
CN100	RJP4G17ZA	CONNECTOR	(M)
CN701	K1MN24B00108	CONNECTOR	(M)

Ref. No.	Part No.	Part Name & Description	Remarks
CP301	RJP3G4YA	CONNECTOR	(M)
CP305	RJS11T5ZA	11P CONNECTOR	(M)
CP601	RJP3G18ZA	3PIN CONNECTOR	(M)
CP901	RJP3G9YA	3P CONNECTOR	(M)
CP903	RJP4G4YA	CONNECTOR	(M)
CS701	RJS2A5617	CD CONNECT	(M)
CS801	RJS2A5628	CONNECTOR	(M)
CS802	RJS6T5ZA	SESOR CONNECT	(M)
CN1004	RJP4G17ZA	CONNECTOR	(M)
TRIMMER CAPACITOR			
CT1	ECRLA010A53R	TRIMMER CAPACITOR	(M)
FUSE PROTECTOR			
FP301	K5G122AA0002	FUSE PROTECTOR ⚠	(M)
FP302	K5G122AA0002	FUSE PROTECTOR ⚠	(M)
F901	K5D122A00004	FUSE ⚠	(M)
FP902	K5G122AA0002	FUSE PROTECTOR ⚠	(M)
FUSE HOLDER			
FH901	RJF0028-1	FUSE HOLDER	(M)
FH902	RJF0028-1	FUSE HOLDER	(M)
SENSOR			
Z801	B3RAB0000023	REMOTE SENSOR	(M)
CERAMIC RESONATOR			
X1	J0B1075A0112	DISCRIMINATOR	(M)
X2	H0A750200010	XTAL OSC	(M)
X701	H2A169500009	CRYSTAL	(M)
X801	H2A800400006	RESONATOR 8MHZ	(M)
X802	H0A327200083	CRYSTAL	(M)
SWITCH			
SW601	RSP1A026-Q	PUSH SWITCH	(M)
SW602	EVQ21405R	TACK SWITCH	(M)
SW603	EVQ21405R	TACK SWITCH	(M)
SW604	EVQ21405R	TACK SWITCH	(M)
SW605	EVQ21405R	TACK SWITCH	(M)
SW606	EVQ21405R	TACK SWITCH	(M)
SW607	EVQ21405R	TACK SWITCH	(M)
SW608	EVQ21405R	TACK SWITCH	(M)
SW609	EVQ21405R	TACK SWITCH	(M)
SW610	EVQ21405R	TACK SWITCH	(M)
SW611	EVQ21405R	TACK SWITCH	(M)
SW1001	RSP2F003-B	PUSH SWITCH	(M)
SW1002	RFA91ZA	LEAF SWITCH	(M)
WIRE			
W601	REXT0010	OPERATION TO MAIN WIRE	(M)
W602	RWJ8302090SS	OPERATION TO FUSH WIRE	(M)
W802	RWJ9006220SQ	SENSOR TO MAIN WIRE	(M)
W901	REXT0013	BATT TO POWER WIRE	(M)
W902	RWJ8302240SC	BATT TO SUM3 WIRE	(M)
W903	REXT0011	POWER TO MAIN WIRE	(M)
W1001	RWJ9011135SC	DECK TO MAIN WIRE	(M)
W1002	RWJ9002045SC	PUSH LOCK TO MAIN WIRE	(M)
W1003	RWJ9002045SC	PUSH LOCK TO MAIN WIRE	(M)
JACK			
JK302	RJJ37TK09	HEADPHONE JACK	(M)
JK901	RJJ1SM02-X	AC IN JACK	(M)
RESISTORS			
R1	ERJ3GEYJ103V	CHIP RESISTOR	(M)
R2	ERJ3GEY0R00V	CHIP RESISTOR	(M)
R3	ERJ3GEYJ332V	CHIP RESISTOR	(M)
R4	ERJ3GEYJ104V	CHIP RESISTOR	(M)
R5	ERJ3GEYJ680V	CHIP RESISTOR	(M)
R6	ERJ3GEYJ104V	CHIP RESISTOR	(M)
R7	ERJ3GEYJ104V	CHIP RESISTOR	(M)
R8	ERJ3GEYJ104V	CHIP RESISTOR	(M)
R9	ERJ3GEY0R00V	CHIP RESISTOR	(M)
R10	ERJ3GEYJ104V	CHIP RESISTOR	(M)
R11	ERJ3GEYJ332V	CHIP RESISTOR	(M)
R12	ERJ3GEYJ152V	CHIP RESISTOR	(M)
R13	ERJ3GEYJ332V	CHIP RESISTOR	(M)
R14	ERJ3GEYJ472V	CHIP RESISTOR	(M)
R16	ERJ3GEYJ103V	CHIP RESISTOR	(M)
R17	ERJ3GEYJ103V	CHIP RESISTOR	(M)
R18	ERJ3GEYJ223V	CHIP RESISTOR	(M)
R20	ERJ3GEYJ103V	CHIP RESISTOR	(M)
R22	ERJ3GEYJ103V	CHIP RESISTOR	(M)

Ref. No.	Part No.	Part Name & Description	Remarks
R23	ERJ3GEYJ223V	CHIP RESISTOR	(M)
R24	ERJ3GEYJ223V	CHIP RESISTOR	(M)
R25	ERJ3GEYJ223V	CHIP RESISTOR	(M)
R28	ERJ3GEYJ104V	CHIP RESISTOR	(M)
R29	ERJ3GEYJ102V	CHIP RESISTOR	(M)
R31	ERJ3GEYJ472V	CHIP RESISTOR	(M)
R32	ERJ3GEYJ104V	CHIP RESISTOR	(M)
R34	ERJ3GEYJ104V	CHIP RESISTOR	(M)
R35	ERJ3GEYJ472V	CHIP RESISTOR	(M)
R101	ERDS2TJ104T	CARBON FILM RESISTOR	(M)
R102	ERDS2TJ562T	CARBON FILM RESISTOR	(M)
R103	ERDS2TJ563T	CARBON FILM RESISTOR	(M)
R104	ERDS2TJ562T	CARBON FILM RESISTOR	(M)
R108	ERDS2TJ103T	CARBON FILM RESISTOR	(M)
R109	ERDS2TJ562T	CARBON FILM RESISTOR	(M)
R110	ERDS2TJ473T	CARBON FILM RESISTOR	(M)
R111	ERDS2TJ392T	CARBON FILM RESISTOR	(M)
R112	ERDS2TJ394T	CARBON FILM RESISTOR	(M)
R113	ERDS2TJ222T	CARBON FILM RESISTOR	(M)
R114	ERDS2TJ153T	CARBON FILM RESISTOR	(M)
R115	ERDS2TJ153T	CARBON FILM RESISTOR	(M)
R116	ERDS2TJ332T	CARBON FILM RESISTOR	(M)
R117	ERDS2TJ222T	CARBON FILM RESISTOR	(M)
R118	ERDS2TJ181T	CARBON FILM RESISTOR	(M)
R201	ERDS2TJ104T	CARBON FILM RESISTOR	(M)
R202	ERDS2TJ562T	CARBON FILM RESISTOR	(M)
R203	ERDS2TJ563T	CARBON FILM RESISTOR	(M)
R204	ERDS2TJ562T	CARBON FILM RESISTOR	(M)
R208	ERDS2TJ103T	CARBON FILM RESISTOR	(M)
R209	ERDS2TJ562T	CARBON FILM RESISTOR	(M)
R210	ERDS2TJ473T	CARBON FILM RESISTOR	(M)
R211	ERDS2TJ392T	CARBON FILM RESISTOR	(M)
R212	ERDS2TJ394T	CARBON FILM RESISTOR	(M)
R213	ERDS2TJ222T	CARBON FILM RESISTOR	(M)
R214	ERDS2TJ153T	CARBON FILM RESISTOR	(M)
R215	ERDS2TJ153T	CARBON FILM RESISTOR	(M)
R216	ERDS2TJ332T	CARBON FILM RESISTOR	(M)
R217	ERDS2TJ222T	CARBON FILM RESISTOR	(M)
R218	ERDS2TJ181T	CARBON FILM RESISTOR	(M)
R301	ERDS2TJ223T	CARBON FILM RESISTOR	(M)
R302	ERDS2TJ223T	CARBON FILM RESISTOR	(M)
R303	ERDS2TJ223T	CARBON FILM RESISTOR	(M)
R304	ERDS2TJ223T	CARBON FILM RESISTOR	(M)
R306	ERDS2TJ102T	RESISTOR	(M)
R307	ERDS2TJ102T	RESISTOR	(M)
R308	ERDS2TJ102T	RESISTOR	(M)
R309	ERDS2TJ102T	RESISTOR	(M)
R312	ERDS2TJ102T	RESISTOR	(M)
R313	ERDS2TJ102T	RESISTOR	(M)
R314	ERDS2TJ334T	CARBON FILM RESISTOR	(M)
R316	ERDS2TJ221T	CARBON FILM RESISTOR	(M)
R318	ERDS2TJ182T	CARBON FILM RESISTOR	(M)
R319	ERDS2TJ330T	CARBON FILM RESISTOR	(M)
R320	ERDS2TJ103T	CARBON FILM RESISTOR	(M)
R321	ERDS2TJ330T	CARBON FILM RESISTOR	(M)
R322	ERDS2TJ102T	RESISTOR	(M)
R323	ERDS2TJ102T	CARBON FILM RESISTOR	(M)
R324	ERDS2TJ102T	RESISTOR	(M)
R325	ERDS2TJ102T	RESISTOR	(M)
R326	ERDS2TJ333T	CARBON FILM RESISTOR	(M)
R327	ERDS2TJ334T	CARBON FILM RESISTOR	(M)
R328	ERDS2TJ334T	CARBON FILM RESISTOR	(M)
R329	ERDS2TJ562T	CARBON FILM RESISTOR	(M)
R332	ERDS2TJ394T	CARBON FILM RESISTOR	(M)
R333	ERDS2TJ153T	CARBON FILM RESISTOR	(M)
R334	ERDS2TJ104T	CARBON FILM RESISTOR	(M)
R335	ERDS2TJ273T	CARBON FILM RESISTOR	(M)
R336	ERDS2TJ683T	CARBON FILM RESISTOR	(M)
R337	ERDS2TJ473T	CARBON FILM RESISTOR	(M)
R339	ERDS2TJ222T	CARBON FILM RESISTOR	(M)
R340	ERDS2TJ473T	CARBON FILM RESISTOR	(M)
R341	ERDS2TJ392T	CARBON FILM RESISTOR	(M)
R342	ERDS2TJ222T	CARBON FILM RESISTOR	(M)
R343	ERDS2TJ472T	CARBON FILM RESISTOR	(M)
R344	ERDS2TJ222T	CARBON FILM RESISTOR	(M)
R346	ERDS2TJ102T	RESISTOR	(M)
R348	ERDS2TJ681T	CARBON FILM RESISTOR	(M)
R353	ERD2FCVG220T	FUSIBLE RESISTOR	(M)
R357	ERDS2TJ331T	CARBON FILM RESISTOR	(M)
R358	ERDS2TJ681T	CARBON FILM RESISTOR	(M)
R359	ERDS2TJ681T	CARBON FILM RESISTOR	(M)
R360	ERDS2TJ181T	CARBON FILM RESISTOR	(M)
R361	ERDS2TJ101T	CARBON FILM RESISTOR	(M)
R362	ERDS2TJ222T	CARBON FILM RESISTOR	(M)
R363	ERDS2TJ102T	RESISTOR	(M)
R370	ERDS2TJ222T	CARBON FILM RESISTOR	(M)
R371	ERDS2TJ331T	CARBON FILM RESISTOR	(M)
R372	ERDS2TJ102T	RESISTOR	(M)
R373	ERDS2TJ334T	CARBON FILM RESISTOR	(M)
R374	ERDS2TJ393T	CARBON FILM RESISTOR	(M)
R375	ERDS2TJ333T	CARBON FILM RESISTOR	(M)
R601	ERDS2TJ152T	CARBON FILM RESISTOR	(M)
R602	ERDS2TJ222T	CARBON FILM RESISTOR	(M)
R603	ERDS2TJ272T	CARBON FILM RESISTOR	(M)
R604	ERDS2TJ392T	CARBON FILM RESISTOR	(M)
R605	ERDS2TJ562T	CARBON FILM RESISTOR	(M)
R606	ERDS2TJ822T	CARBON FILM RESISTOR	(M)
R607	ERDS2TJ153T	CARBON FILM RESISTOR	(M)
R608	ERDS2TJ333T	CARBON FILM RESISTOR	(M)
R609	ERDS2TJ823T	CARBON FILM RESISTOR	(M)
R701	ERJ3GEYJ4R7V	CHIP RESISTOR	(M)
R702	ERJ3GEYJ332V	CHIP RESISTOR	(M)
R703	ERJ3GEYJ5R6V	CHIP RESISTOR	(M)
R704	ERJ3GEYJ102V	CHIP RESISTOR	(M)
R705	ERJ3GEYJ393V	CHIP RESISTOR	(M)
R706	ERJ3GEYJ102V	CHIP RESISTOR	(M)
R709	ERJ3GEYJ104V	CHIP RESISTOR	(M)
R711	ERJ3GEYJ823V	CHIP RESISTOR	(M)
R712	ERJ3GEYJ821V	CHIP RESISTOR	(M)
R714	ERJ3GEYJ101V	CHIP RESISTOR	(M)
R715	ERJ3GEYJ472V	CHIP RESISTOR	(M)
R717	ERJ3GEYJ102V	CHIP RESISTOR	(M)
R718	ERJ3GEYJ102V	CHIP RESISTOR	(M)
R720	ERJ3GEYJ105V	CHIP RESISTOR	(M)
R721	ERJ3GEYJ101V	CHIP RESISTOR	(M)
R723	ERJ3GEYJ682V	CHIP RESISTOR	(M)
R725	ERJ3GEYJ102V	CHIP RESISTOR	(M)
R727	ERJ3GEYJ562V	CHIP RESISTOR	(M)
R728	ERJ3GEYJ683V	CHIP RESISTOR	(M)
R729	ERJ3GEYJ562V	CHIP RESISTOR	(M)
R731	ERJ3GEYJ563V	CHIP RESISTOR	(M)
R732	ERJ3GEYJ102V	CHIP RESISTOR	(M)
R735	ERJ3GEYJ101V	CHIP RESISTOR	(M)
R736	ERJ3GEYJ101V	CHIP RESISTOR	(M)
R744	ERJ3GEYJ273V	CHIP RESISTOR	(M)
R745	ERJ3GEY0R00V	CHIP RESISTOR	(M)
R749	ERJ3GEYJ683V	CHIP RESISTOR	(M)
R750	ERJ3GEYJ5R6V	CHIP RESISTOR	(M)
R763	ERJ3GEYJ683V	CHIP RESISTOR	(M)
R764	ERJ3GEYJ683V	CHIP RESISTOR	(M)
R771	ERJ3GEYJ683V	CHIP RESISTOR	(M)
R772	ERJ3GEYJ683V	CHIP RESISTOR	(M)
R773	ERJ3GEYJ683V	CHIP RESISTOR	(M)
R774	ERJ3GEYJ102V	CHIP RESISTOR	(M)
R801	ERDS2TJ223T	CARBON FILM RESISTOR	(M)
R802	ERDS2TJ823T	CARBON FILM RESISTOR	(M)
R803	ERDS2TJ124T	CARBON FILM RESISTOR	(M)
R804	ERDS2TJ104T	CARBON FILM RESISTOR	(M)
R805	ERDS2TJ102T	RESISTOR	(M)
R806	ERDS2TJ151T	CARBON FILM RESISTOR	(M)
R807	ERDS2TJ332T	CARBON FILM RESISTOR	(M)
R809	ERDS2TJ151T	CARBON FILM RESISTOR	(M)
R810	ERDS2TJ332T	CARBON FILM RESISTOR	(M)
R811	ERJ3GEYJ334V	CHIP RESISTOR	(M)
R813	ERDS2TJ472T	CARBON FILM RESISTOR	(M)
R817	ERDS2TJ104T	CARBON FILM RESISTOR	(M)
R818	ERDS2TJ102T	RESISTOR	(M)
R819	ERDS2TJ102T	RESISTOR	(M)

Ref. No.	Part No.	Part Name & Description	Remarks
R820	ERDS2TJ102T	RESISTOR	(M)
R821	ERDS2TJ102T	RESISTOR	(M)
R822	ERDS2TJ153T	CARBON FILM RESISTOR	(M)
R823	ERDS2TJ472T	CARBON FILM RESISTOR	(M)
R830	ERDS2TJ822T	CARBON FILM RESISTOR	(M)
R831	ERDS2TJ334T	CARBON FILM RESISTOR	(M)
R832	ERDS2TJ393T	CARBON FILM RESISTOR	(M)
R833	ERDS2TJ102T	RESISTOR	(M)
R835	ERDS2TJ104T	CARBON FILM RESISTOR	(M)
R836	ERDS2TJ154T	CARBON FILM RESISTOR	(M)
R837	Z-RWDHT16	JUMPER WIRE	(M)
R838	ERDS2TJ472T	CARBON FILM RESISTOR	(M)
R839	ERJ3GEYJ104V	CHIP RESISTOR	(M)
R841	ERJ3GEYJ104V	CHIP RESISTOR	(M)
R843	ERJ3GEYJ104V	CHIP RESISTOR	(M)
R845	Z-RWDHT16	JUMPER WIRE	(M)
R846	ERDS2TJ104T	CARBON FILM RESISTOR	(M)
R847	ERDS2TJ334T	CARBON FILM RESISTOR	(M)
R848	ERDS2TJ473T	CARBON FILM RESISTOR	(M)
R849	ERDS2TJ104T	CARBON FILM RESISTOR	(M)
R850	ERDS2TJ331T	CARBON FILM RESISTOR	(M)
R851	ERJ3GEYJ334V	CHIP RESISTOR	(M)
R852	ERDS2TJ103T	CARBON FILM RESISTOR	(M)
R901	ERDS2TJ102T	RESISTOR	(M)
R902	ERDS2TJ271T	CARBON FILM RESISTOR	(M)
R1001	ERDS2TJ221T	CARBON FILM RESISTOR	(M)
R1002	ERDS2TJ331T	CARBON FILM RESISTOR	(M)
R1003	ERDS2TJ473T	CARBON FILM RESISTOR	(M)
R1004	ERDS2TJ8R2T	CARBON FILM RESISTOR	(M)
R1005	ERDS2TJ223T	CARBON FILM RESISTOR	(M)
R1006	ERDS2TJ101T	CARBON FILM RESISTOR	(M)
R1101	ERDS2TJ183T	CARBON FILM RESISTOR	(M)
R1102	ERDS2TJ272T	CARBON FILM RESISTOR	(M)
R1103	ERDS2TJ224T	CARBON FILM RESISTOR	(M)
R1104	ERDS2TJ682T	CARBON FILM RESISTOR	(M)
R1105	ERDS2TJ222T	CARBON FILM RESISTOR	(M)
R1106	ERDS2TJ470T	CARBON FILM RESISTOR	(M)
R1108	ERDS2TJ562T	CARBON FILM RESISTOR	(M)
R1201	ERDS2TJ183T	CARBON FILM RESISTOR	(M)
R1202	ERDS2TJ272T	CARBON FILM RESISTOR	(M)
R1203	ERDS2TJ224T	CARBON FILM RESISTOR	(M)
R1204	ERDS2TJ682T	CARBON FILM RESISTOR	(M)
R1205	ERDS2TJ222T	CARBON FILM RESISTOR	(M)
R1206	ERDS2TJ470T	CARBON FILM RESISTOR	(M)
R1208	ERDS2TJ562T	CARBON FILM RESISTOR	(M)
CAPACITOR			
C1	F1H1A105A028	CHIP CAPACITY	(M)
C2	F1H1A224A028	CHIP CAPACITY	(M)
C3	F1G0J224A001	CHIP CAPACITY	(M)
C4	ECA1CM101BV	ELECTROLYTIC CAPACITOR	(M)
C5	ECUV1C473KBV	CHIP CAP.	(M)
C6	ECUV1H102KBV	CHIP CAP.	(M)
C7	ECUV1H102KBV	CHIP CAP.	(M)
C8	ECUV1H070DCV	CHIP CAPACITOR	(M)
C9	ECUV1E103KBV	CHIP CAP.	(M)
C10	ECUV1E103KBV	CHIP CAP.	(M)
C11	ECUV1H102KBV	CHIP CAP.	(M)
C12	ECUV1C473KBV	CHIP CAP.	(M)
C13	ECUV1H120DCV	CHIP CAP	(M)
C14	ECUV1H331JCV	CHIP CAP	(M)
C15	ECUV1C473KBV	CHIP CAP.	(M)
C16	ECUV1H150JCV	CHIP CAPACITOR	(M)
C17	ECA1HM3R3BV	E-CAP	(M)
C18	ECUV1E103KBV	CHIP CAP.	(M)
C19	ECA1HM010BV	ELECTROLYTIC CAPACITOR	(M)
C20	ECA1AM101BV	ELECTROLYTIC CAP	(M)
C21	ECEA1HKA010B	ELECTROLYTIC CAPACITOR	(M)
C22	ECA1HMR47BV	E-CAP	(M)
C23	ECA1AM101BV	ELECTROLYTIC CAP	(M)
C24	ECA1CM220B	ELECTROLYTIC CAP	(M)
C25	ECUV1C183KBV	CHIP RESISTOR	(M)
C26	ECUV1E103KBV	CHIP CAP.	(M)
C27	ECUV1C183KBV	CHIP RESISTOR	(M)
C28	ECUV1H102KBV	CHIP CAP.	(M)

Ref. No.	Part No.	Part Name & Description	Remarks
C29	ECUV1H102KBV	CHIP CAP.	(M)
C30	ECA1HM010BV	ELECTROLYTIC CAPACITOR	(M)
C31	ECEA1HKA010B	ELECTROLYTIC CAPACITOR	(M)
C32	ECA1HM4R7BV	E-CAP	(M)
C33	ECUV1H101KCV	CHIP CAP	(M)
C34	ECUV1H150DCV	CHIP CAPACITOR	(M)
C35	ECUV1H101KCV	CHIP CAP	(M)
C36	ECUV1H120DCV	CHIP CAPACITOR	(M)
C37	ECUV1H101KCV	CHIP CAP	(M)
C39	ECUV1H102KBV	CHIP CAP.	(M)
C40	ECEA1AKA101B	ELECTROLYTIC CAP	(M)
C41	ECUV1H331KBV	CHIP CAP	(M)
C42	ECUV1H331JCV	CHIP CAP	(M)
C43	ECUV1C473KBV	CHIP CAP.	(M)
C44	ECUV1C223KBV	CHIP CAPACITOR	(M)
C45	ECUV1H102KBV	CHIP CAP.	(M)
C47	ECUV1H040DCV	CHIP CAP	(M)
C48	ECUV1H470KCV	CHIP CAP	(M)
C49	ECUV1H100DCV	CHIP CAPACITOR	(M)
C50	ECUV1C333KBV	CHIP CAPACITOR	(M)
C51	ECUV1H271JCV	CHIP CAP	(M)
C52	ECUV1H182KBN	CHIP CAP	(M)
C54	ECBT1H6R8KC5	CERAMIC CAPACITOR	(M)
C101	ECEA1HKA4R7B	ELECTROLYTIC CAPACITOR	(M)
C102	ECUV1C104KBV	CHIP CAP	(M)
C103	ECUV1C104KBV	CHIP CAP	(M)
C104	ECUV1C104KBV	CHIP CAP	(M)
C105	ECEA1HKA4R7B	ELECTROLYTIC CAPACITOR	(M)
C106	ECBT1H102KB5	CERAMIC CAPACITOR	(M)
C107	ECBT1H102KB5	CERAMIC CAPACITOR	(M)
C108	ECBT1H102KB5	CERAMIC CAPACITOR	(M)
C109	ECA1HMR22BV	ELECTROLYTIC CAPACITOR	(M)
C110	ECUV1C473KBV	CHIP CAP.	(M)
C111	ECA1HM0R1BV	E-CAP	(M)
C112	ECUV1H332KBV	CHIP CAPACITOR	(M)
C113	ECUV1C683KBV	CHIP CAP.	(M)
C114	ECA1HMR22BV	ELECTROLYTIC CAPACITOR	(M)
C115	ECBT1H471KB5	CERAMIC CAPACITOR	(M)
C116	ECA1AM471B	ELECTROLYTIC CAP ⚠	(M)
C117	ECUV1H332KBV	CHIP CAPACITOR	(M)
C120	ECA1HM010BV	ELECTROLYTIC CAPACITOR	(M)
C201	ECEA1HKA4R7B	ELECTROLYTIC CAPACITOR	(M)
C202	ECUV1C104KBV	CHIP CAP	(M)
C203	ECUV1C104KBV	CHIP CAP	(M)
C204	ECUV1C104KBV	CHIP CAP	(M)
C205	ECEA1HKA4R7B	ELECTROLYTIC CAPACITOR	(M)
C206	ECBT1H102KB5	CERAMIC CAPACITOR	(M)
C207	ECBT1H102KB5	CERAMIC CAPACITOR	(M)
C208	ECBT1H102KB5	CERAMIC CAPACITOR	(M)
C209	ECA1HMR22BV	ELECTROLYTIC CAPACITOR	(M)
C210	ECUV1C473KBV	CHIP CAP.	(M)
C211	ECA1HM0R1BV	E-CAP	(M)
C212	ECUV1H332KBV	CHIP CAPACITOR	(M)
C213	ECUV1C683KBV	CHIP CAP.	(M)
C214	ECA1HMR22BV	ELECTROLYTIC CAPACITOR	(M)
C215	ECBT1H471KB5	CERAMIC CAPACITOR	(M)
C216	ECA1AM471B	ELECTROLYTIC CAP ⚠	(M)
C217	ECUV1H332KBV	CHIP CAPACITOR	(M)
C220	ECA1HM010BV	ELECTROLYTIC CAPACITOR	(M)
C301	ECUV1H102KBV	CHIP CAP.	(M)
C305	ECBT1H221KB5	CERAMIC CAPACITOR	(M)
C307	ECEA1AKA101B	ELECTROLYTIC CAP	(M)
C310	ECUV1H102KBV	CHIP CAP.	(M)
C311	ECEA1HKAR33B	ELECTROLYTIC CAPACITOR	(M)
C312	ECA1HM4R7BV	E-CAP	(M)
C313	ECUV1H221KBV	CHIP CAP.	(M)
C314	ECUV1H221KBV	CHIP CAP.	(M)
C315	ECA1CM470BV	ELECTROLYTIC CAPACITOR	(M)
C316	ECUV1H102KBV	CHIP CAP.	(M)
C317	ECA1EM332E	E-CAP ⚠	(M)
C321	ECA1HM2R2BV	ELECTROLYTIC CAPACITOR	(M)
C322	ECA1HM4R7BV	E-CAP	(M)
C323	ECA1HM4R7BV	E-CAP	(M)
C328	ECUV1H102KBV	CHIP CAP.	(M)

Ref. No.	Part No.	Part Name & Description	Remarks
C329	ECA0JM101BV	ELECTROLYTIC CAPACITOR	(M)
C332	ECA1EM100BV	ELECTROLYTIC CAPACITOR	(M)
C335	ECA1CM101BV	ELECTROLYTIC CAPACITOR	(M)
C336	ECA1CM470BV	ELECTROLYTIC CAPACITOR	(M)
C337	ECA1CM100BV	ELECTROLYTIC CAP	(M)
C340	ECA0JM471B	CERAMIC CAPACITOR	(M)
C341	ECBT1H221KB5	CERAMIC CAPACITOR	(M)
C342	ECUV1H102KBV	CHIP CAP.	(M)
C345	ECA0JM221BV	ELECTROLYTIC CAPACITOR	(M)
C346	ECA0JM471B	E-CAP	(M)
C701	EEE0JA330WR	CAPACITOR	(M)
C702	ECUV1C104KBV	CHIP CAP	(M)
C703	EEE0JA101WR	CAPACITOR	(M)
C704	ECUV1C104KBV	CHIP CAP	(M)
C705	ECUV1E104ZFV	CHIP CAPACITOR	(M)
C706	ECUV1C104KBV	CHIP CAP	(M)
C707	ECUV1C223KBV	CHIP CAPACITOR	(M)
C708	ECUV1C104KBV	CHIP CAP	(M)
C710	ECUV1H471JCV	CHIP CAPACITOR	(M)
C711	ECUV1C223KBV	CHIP CAPACITOR	(M)
C712	ECUV1C223KBV	CHIP CAPACITOR	(M)
C713	ECUV1E104ZFV	CHIP CAPACITOR	(M)
C714	EEE0JA101WR	CAPACITOR	(M)
C715	ECUVNC154KBV	CHIP CAP	(M)
C717	ECUV1E104ZFV	CHIP CAPACITOR	(M)
C718	ECUV1C823KBV	CHIP CAP	(M)
C721	ECUV1H330JCV	CHIP CAPACITOR	(M)
C722	ECUV1H330JCV	CHIP CAPACITOR	(M)
C723	EEE0GA331WP	CAPACITOR	(M)
C724	ECUV1C104KBV	CHIP CAP	(M)
C725	ECUV1H102KBV	CHIP CAP.	(M)
C726	ECUV1H102KBV	CHIP CAP.	(M)
C729	ECUV1C104KBV	CHIP CAP	(M)
C730	ECUV1C104KBV	CHIP CAP	(M)
C731	EEE0JA221WP	CAPACITOR	(M)
C733	ECUV1E104ZFV	CHIP CAPACITOR	(M)
C734	EEE0JA221WP	CAPACITOR	(M)
C735	ECUV1E104ZFV	CHIP CAPACITOR	(M)
C738	ECUV1C333KBV	CHIP CAPACITOR	(M)
C739	ECUV1H272KBV	CHIP CAP.	(M)
C740	ECUV1C104KBV	CHIP CAP	(M)
C741	ECUV1H102KBV	CHIP CAP.	(M)
C742	ECUV1C223KBV	CHIP CAPACITOR	(M)
C743	ECUV1E104ZFV	CHIP CAPACITOR	(M)
C744	ECUV1C223KBV	CHIP CAPACITOR	(M)
C746	ECUV1C104KBV	CHIP CAP	(M)
C747	ECUV1H821JCV	CHIP CAPACITOR	(M)
C748	ECUV1C104KBV	CHIP CAP	(M)
C749	ECUV1H472KBV	CHIP CAPACITOR	(M)
C752	ECUV1H272KBV	CHIP CAP.	(M)
C753	ECUV1H471KBV	CHIP CAP.	(M)
C754	ECUV1C104KBV	CHIP CAP	(M)
C755	ECUV1C104KBV	CHIP CAP	(M)
C756	EEE1EA4R7SR	CHIP CAPACITOR	(M)
C757	EEE1EA4R7SR	CHIP CAPACITOR	(M)
C758	ECUV1C104KBV	CHIP CAP	(M)
C776	ECUV1E103KBV	CHIP CAP.	(M)
C777	ECUV1H821KBV	CHIP CAP	(M)
C786	ECUV1H221KBV	CHIP CAP.	(M)
C787	ECUV1H221KBV	CHIP CAP.	(M)
C788	ECUV1H221KBV	CHIP CAP.	(M)
C801	ECA0JM101BV	ELECTROLYTIC CAPACITOR	(M)
C803	ECUV1H102KBV	CHIP CAP.	(M)
C804	ECBT1H102KB5	CERAMIC CAPACITOR	(M)
C805	ECUV1H103KBV	CHIP CAPACITOR	(M)
C806	ECUV1H102KBV	CHIP CAP.	(M)
C807	ECUV1H560JCV	CHIP CAP	(M)
C808	ECUV1H680JCV	CHIP CAP	(M)
C809	ECUV1E103KBV	CHIP CAPACITOR	(M)
C810	ECUV1H102KBV	CHIP CAP.	(M)
C811	ECUV1H270JCV	CHIP CAP	(M)
C812	ECUV1H470JCV	CHIP CAP	(M)
C813	ECUV1H220JCV	CHIP CAP.	(M)
C814	ECUV1H180JCV	CHIP CAP	(M)

Ref. No.	Part No.	Part Name & Description	Remarks
C817	ECEA1EKA100B	ELECTROLYTIC CAPACITOR	(M)
C818	ECUV1H102KBV	CHIP CAP.	(M)
C823	ECUV1H102KBV	CHIP CAP.	(M)
C829	ECA1HMR47BV	E-CAP	(M)
C901	ECKR1H103ZF5	CERAMIC CAPACITOR	(M)
C902	ECKR1H103ZF5	CERAMIC CAPACITOR	(M)
C903	ECKR1H103ZF5	CERAMIC CAPACITOR	(M)
C904	ECKR1H103ZF5	CERAMIC CAPACITOR	(M)
C1001	RCQB2A392KM	FILM CAPACITOR	(M)
C1002	ECA1AM101BV	ELECTROLYTIC CAP	(M)
C1003	ECBT1C682KR5	CERAMIC CAPACITOR	(M)
C1004	ECBT1H102KB5	CERAMIC CAPACITOR	(M)
C1006	ECEA1HKA2R2B	ELECTROLYTIC CAPACITOR	(M)
C1007	ECA1AM101BV	ELECTROLYTIC CAP	(M)
C1008	ECA1AM221BV	ELECTROLYTIC CAPACITOR	(M)
C1101	ECBT1C272MR5	CERAMIC CAPACITOR	(M)
C1102	ECA1CM100BV	ELECTROLYTIC CAP	(M)
C1103	ECBT1H223KB5	CERAMIC CAPACITOR	(M)
C1104	ECA1AM101BV	ELECTROLYTIC CAP	(M)
C1106	ECBT1H681KB5	CERAMIC CAPACITOR	(M)
C1113	ECBT1H560J5	CERAMIC CAPACITOR	(M)
C1122	ECBT1C332KR5	CERAMIC CAPACITOR	(M)
C1201	ECBT1C272MR5	CERAMIC CAPACITOR	(M)
C1202	ECA1CM100BV	ELECTROLYTIC CAP	(M)
C1203	ECBT1H223KB5	CERAMIC CAPACITOR	(M)
C1204	ECA1AM101BV	ELECTROLYTIC CAP	(M)
C1206	ECBT1H681KB5	CERAMIC CAPACITOR	(M)
C1213	ECBT1H560J5	CERAMIC CAPACITOR	(M)
C1222	ECBT1C332KR5	CERAMIC CAPACITOR	(M)
C1325	ECEA1CKA101B	ELECTROLYTIC CAP	(M)

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