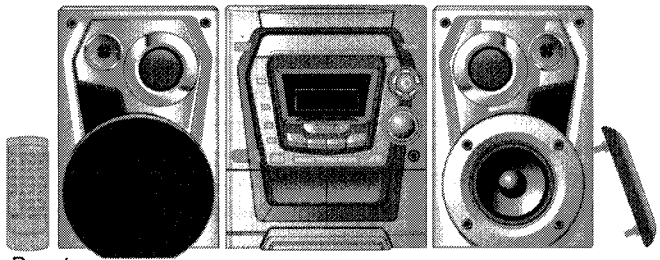
ORDER NO. MD0201006C1
A6

Service Manual

CD Stereo System

COMPACT disc DIGITAL AUDIO



SA-AK500P
SA-AK500PC

Colour
(S)... Silver Type

TAPE SECTION :
SG-2W MECHANISM SERIES
CD SECTION :
RAE0152Z-3 TRAVERSE DECK SERIES

Specifications

n AMPLIFIER SECTION

Power output	
10% Total harmonic distortion	
3 kHz - 16 kHz, both channels driven	
(HIGH)	50 W per channel (6 Ω)
60 Hz - 3 kHz, both channels driven	
(LOW)	60 W per channel (6 Ω)
Total Bi-Amp power	110 W per channel
Power output	
10% Total harmonic distortion	
10 kHz, both channels driven	
(HIGH)	63 W per channel (6 Ω)
1 kHz, both channels driven	
(LOW)	67 W per channel (6 Ω)
Total Bi-Amp power	130 W per channel
Input sensitivity	
AUX	250 mV
Input Impedance	
AUX	13.3 kΩ

n FM TUNER SECTION

Frequency range	87.9 - 107.9 MHz (200 kHz steps)
	87.5 - 108.0 MHz (100 kHz steps)
Sensitivity	2.5 µV (IHF)
S/N 26 dB	2.2 µV
Antenna terminal(s)	75 Ω (unbalanced)

n AM TUNER SECTION

Frequency range	520 - 1710 kHz (10 kHz steps)
Sensitivity	
S/N 20 dB (at 1000 kHz)	560 µV/m

n CASSETTE DECK SECTION

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

n CD SECTION

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

Panasonic®

D/A converter	MASH (1 bit DAC)

n MP3 SECTION

MP2 decode	Base on MPEG 1 Layer 3
Bitrate	32 kbps - 320 kbps
Sampling frequency	32 kHz, 44.1 kHz, 48 kHz

n GENERAL

Power supply	AC 120 V, 60Hz
Power consumption	215 W (250VA)
Power consumption in standby mode	0.34 W
Dimensions (W x H x D)	250 x 315 x 345 mm (9 27/32" x 12 13/32" x 13 19/32")
Mass	7.5 kg (16.5 lb)

n SYSTEM

SC-AK500(P)	Music Center: SA-AK500(P)
	Speaker: SB-AK500(P)
SC-AK500(PC)	Music Center: SA-AK500(PC)
	Speaker: SB-AK500(P)

Notes:

1. Specifications are subject to change without notice. Mass and dimensions are aproximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.
3. The labels "HIGH" and "LOW" on the rear of the speakers refer to High frequency and Low frequency.

⚠ 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.

1.1. Insulation Resistance Test

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

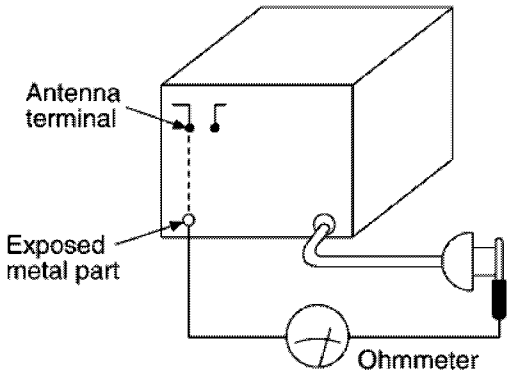


Fig.1

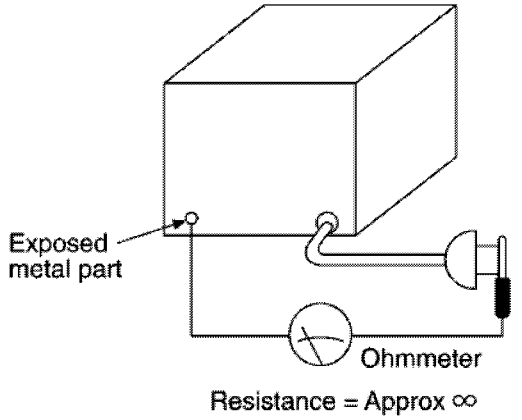


Fig.2

2 Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C528, C529 and C960 through a 10Ω, 5W resistor to ground.

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

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

Current consumption at AC 120V, 60 Hz in NO SIGNAL mode should be ~600mA.

3 Protection Circuitry

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

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

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

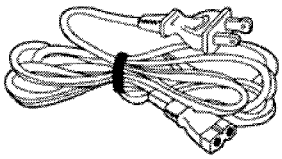
Note :

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

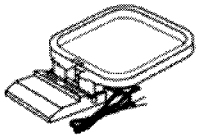
4 Accessories

Remote Control
Transmitter

FM indoor antenna



AC mains lead



AM Loop antenna

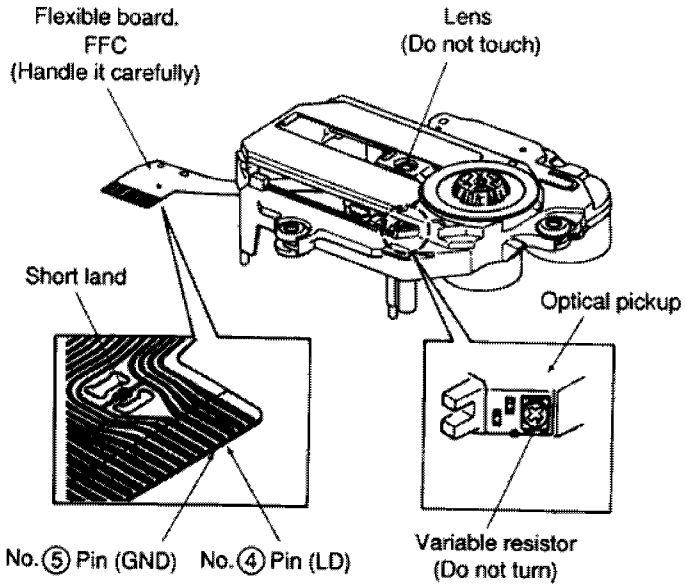
5 Handling Precautions For Traverse Deck

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body.

So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

· Handling of traverse deck (optical pickup)

1. Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.
2. The short land between the No.4(LD) and No.5(GND) pins on the flexible board (FFC) is shorted with a solder build-up to prevent damage to the laser diode.To connect to the PC board, be sure to open by removing the solder build-up, and finishthe work quickly.
3. Take care not to apply excessive stress to the flexible board (FFC).
4. Do not turn the variable resistor (laser power adjustment). It has already been adjusted.



· Grounding for electrostatic breakdown prevention

1. Human body grounding

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

2. Work table grounding

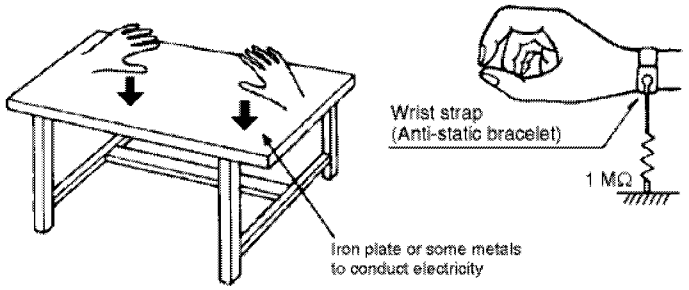
   Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

Caution :

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

Caution when Replacing the Traverse Deck :

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



6 Precaution of Laser Diode

CAUTION:

This unit utilizes a class 1 laser.

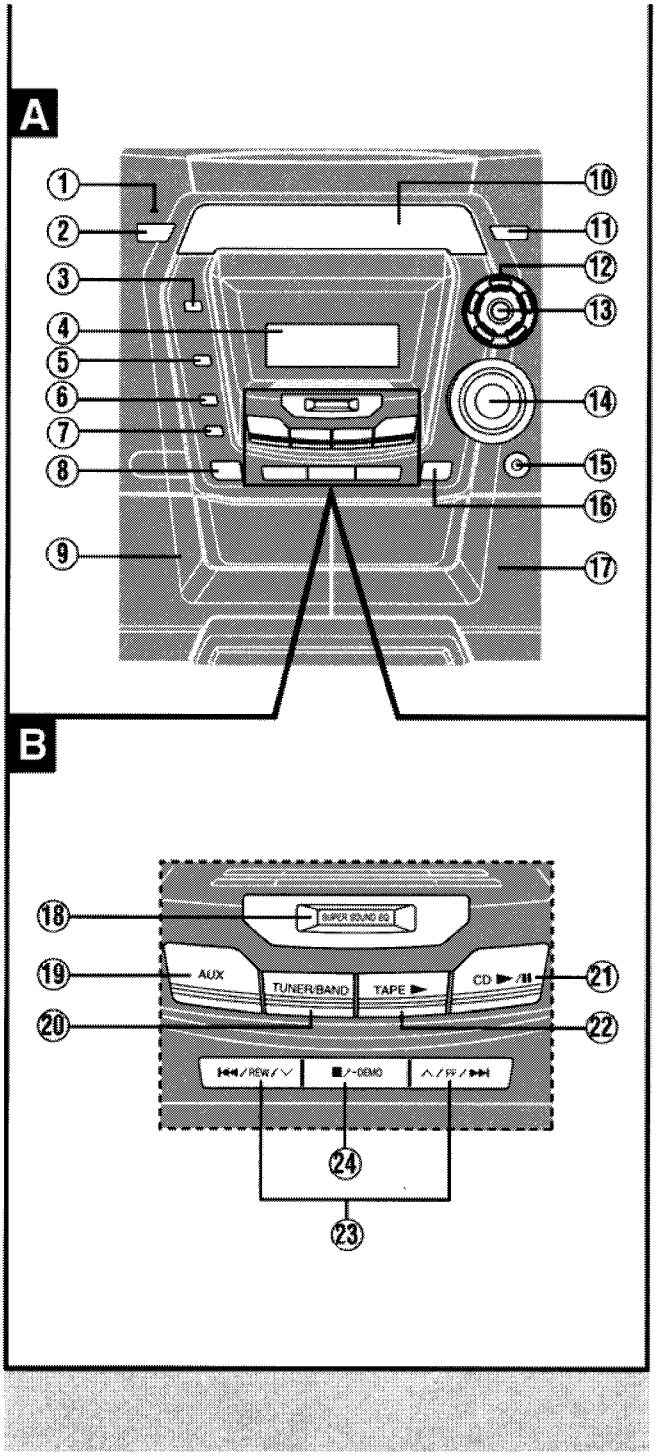
Invisible laser radiation is emitted from the optical pickup lens.

When the unit is turned on:

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



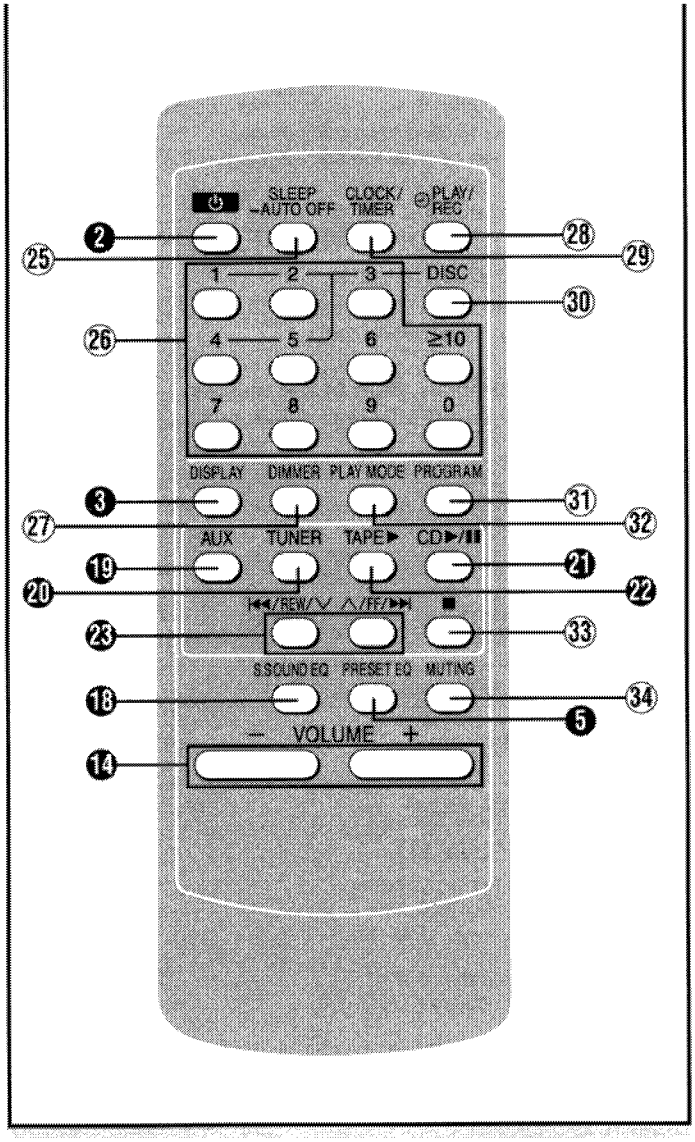
Front panel controls

A Main unit

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

B Center console

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



Front panel controls

Remote control

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

No.	Name
❷	Standby/on button (⏻)
㉕	Sleep timer/auto off button (SLEEP, –AUTO OFF)
㉖	Numeric buttons (≥10, 1–9, 0)
❸	Display button (DISPLAY)
㉗	Dimmer button (DIMMER)
⓳	AUX button (AUX)
⓴	Tuner/band select button (TUNER)
㉓	CD skip/search, tape fast-forward/rewind, tune/preset channel select, time adjust buttons (I◀◀/REW/∨, ∧/FF/▶▶I)
⓲	Super sound EQ button (S.SOUND EQ)
⓮	Volume buttons (– VOLUME +)
㉘	Play timer/record timer button (⏲PLAY/REC)
㉙	Clock/timer button (CLOCK/TIMER)
㉚	Disc button (DISC)
㉛	Program button (PROGRAM)
㉜	Play mode select button (PLAY MODE)
㉑	CD play/pause button (CD ▶/II)
㉒	Tape play button (TAPE ▶)
㉝	Stop/program clear button (■)
㉞	Muting button (MUTING)
❺	Preset EQ select button (PRESET EQ)

8 Disassembly and Main Component Replacement Procedures

"ATTENTION SERVICER"

Some chassis components may have sharp edges.

Be careful when disassembling and servicing.

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures.**

   Special reassembly procedures are described only when required.
3. **Select items from the following index when checks or replacement are required.**

Contents

- **Disassembly Procedure for each major P.C.B.**
  1. Checking of the Main, Panel, Transformer, Deck and MP3 P.C.B.
  2. Checking of Power P.C.B.
- **Main Component Replacement Procedures**
  1. Replacement of the Traverse Deck.
  2. Replacement of the Power Amplifier IC.
- **Disassembly and assembly of the Traverse Unit**
- **Disassembly and assembly of the Disc Tray**

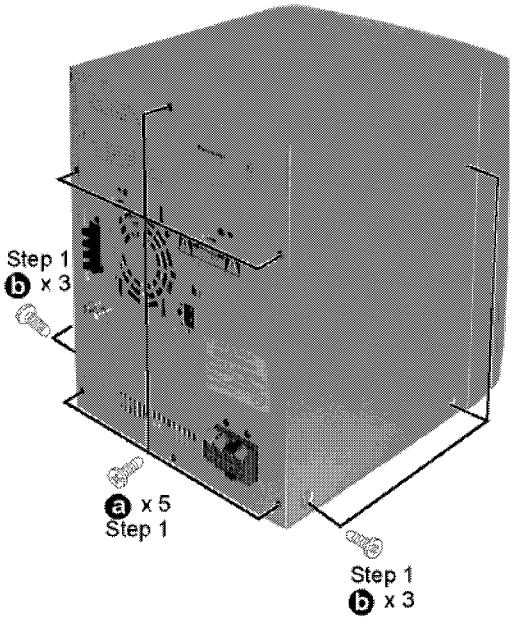
Warning:

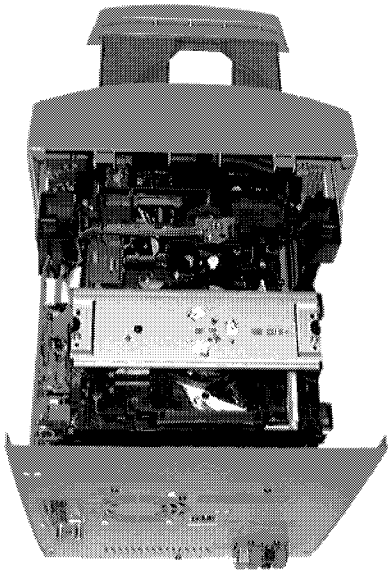
This product uses a laser diode. Refer to caution statement "Precaution of Laser Diode.

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

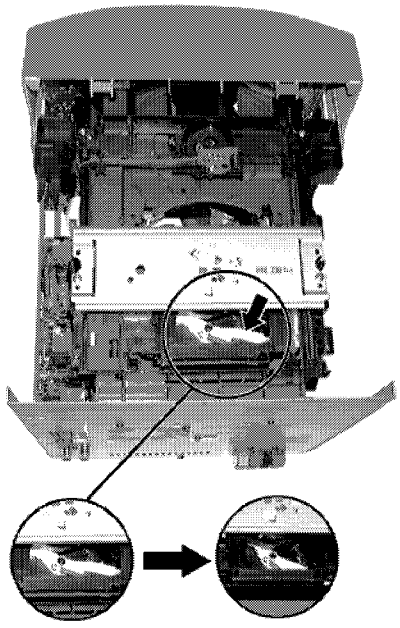
8.1.1. Checking of the Main, Panel, Transformer, Deck, MP3 and Power P.C.B.

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

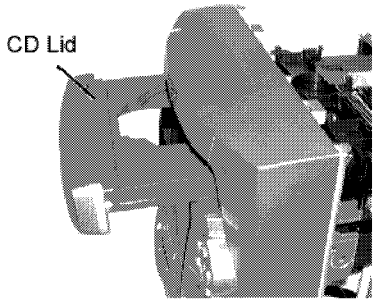




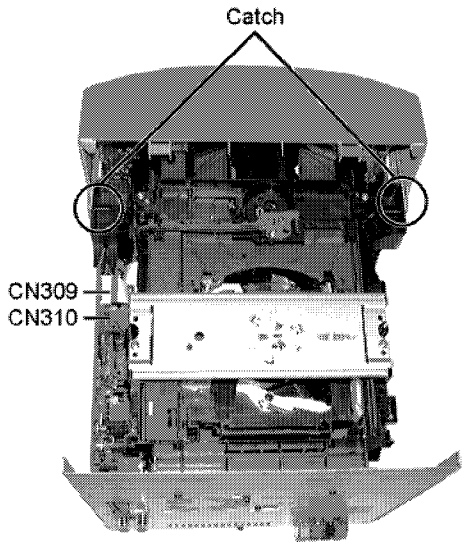
Step 2 Remove the Top Cabinet.



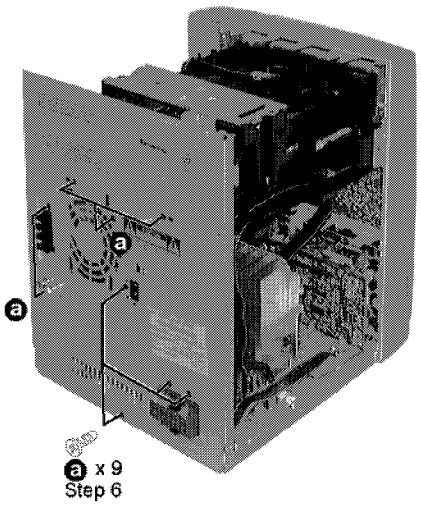
Step 3 Push the lever in the direction of the arrow.

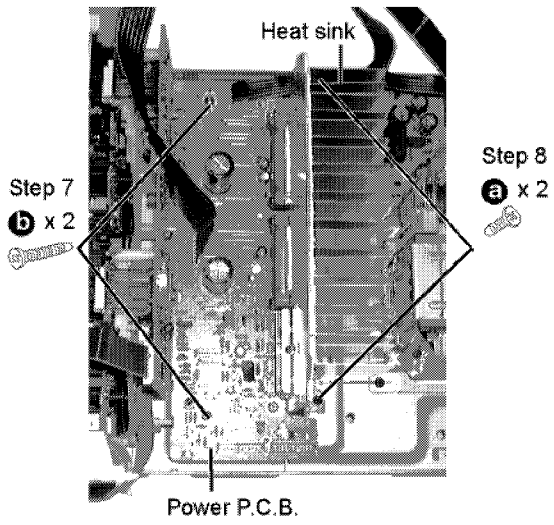


Step 4 Pull out the CD tray as shown and remove the CD lid. Push back the CD tray after the CD lid has been removed.

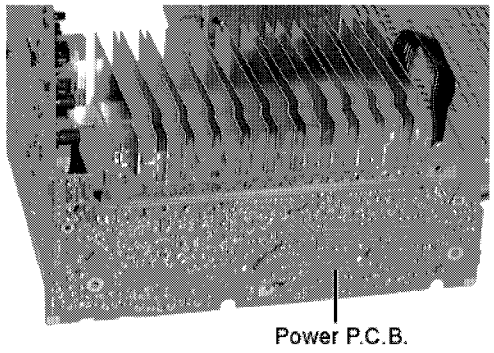


Step 5 Release the 2 catches, disconnect CN309 and CN310. Rremove the CD changer base together with the CD changer.

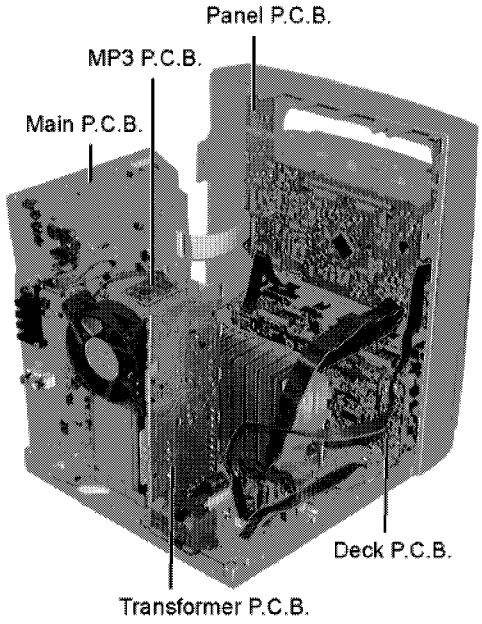




Step 6 Remove 9 screws.



- **Checking for Main, Panel, Transformer, MP3 and Deck P.C.B**

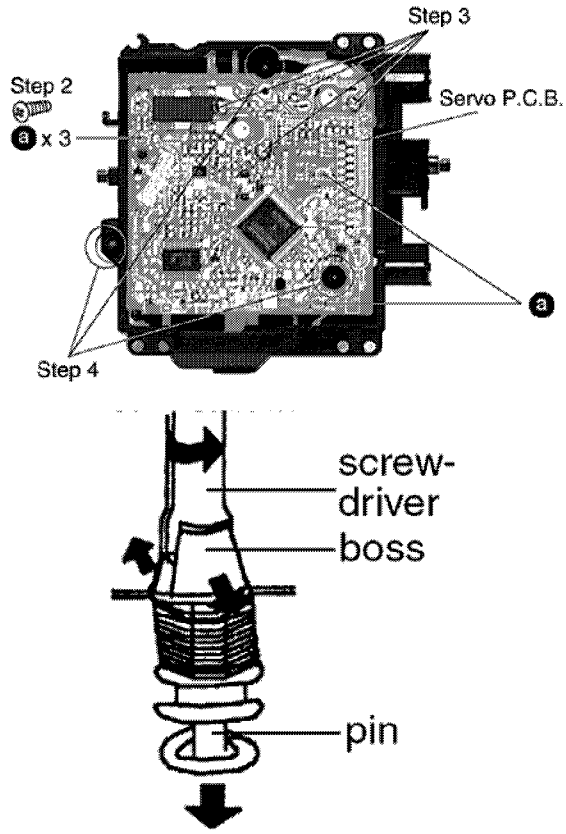


- **Checking for Power P.C.B.**

8.2. Main Component Replacement Procedures

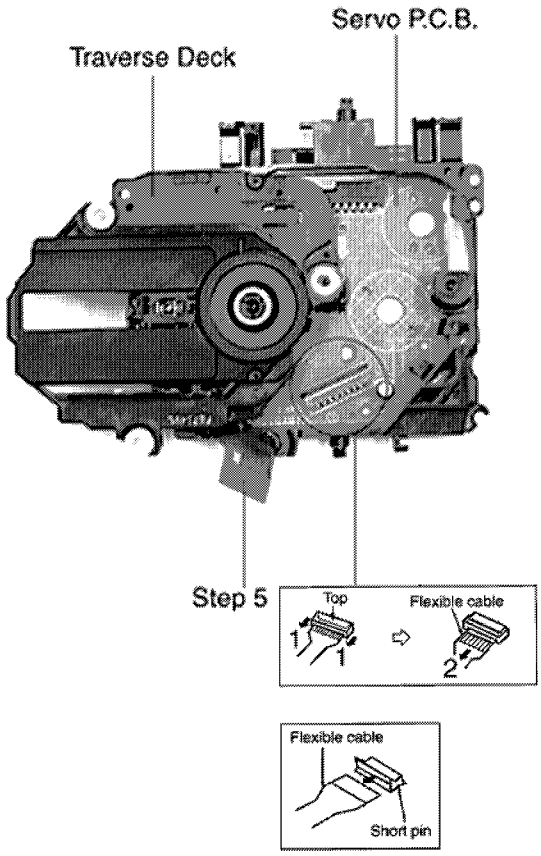
8.2.1. Replacement of the Traverse Deck

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



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

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



Step 5 Remove the flexible cable CN701.

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

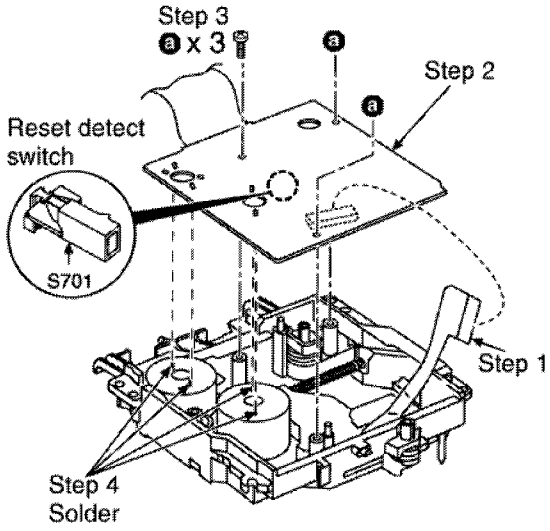
Note:

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

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

Step 1 Connect the FFC board.

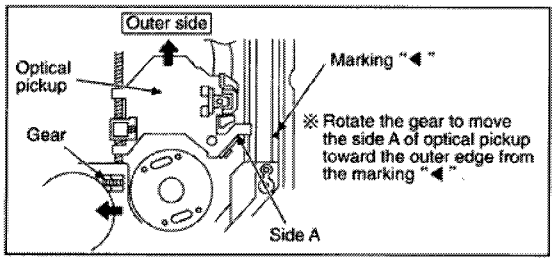
Step 2 Install the CD servo P.C.B. in the traverse deck assembly.



Note:

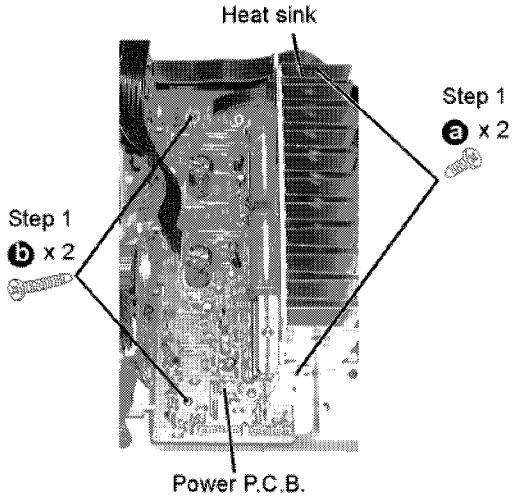
Before installing the CD servo P.C.B., move the optical pickup towards the outer edge from the marking (black triangle).

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

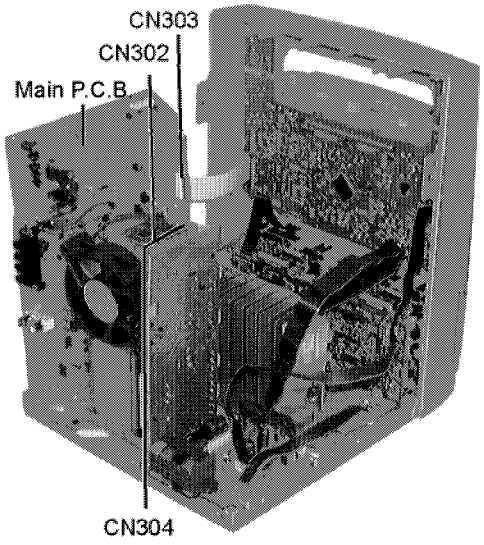


8.2.2. Replacement of the Power Amplifier IC

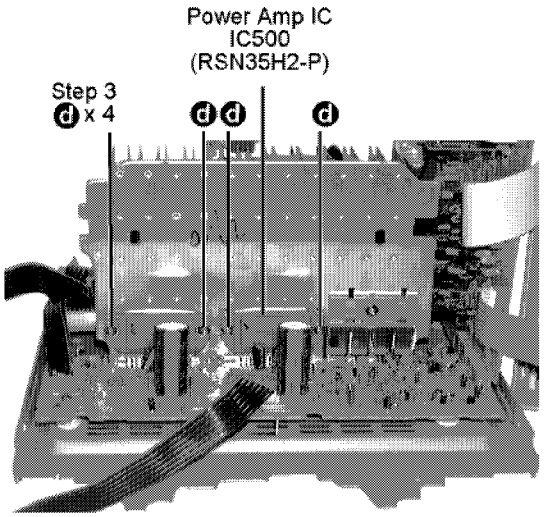
Step 1 Follow the procedures in 'Checking Procedure for each major P.C.B.' (**Step 1 - Step 4**).



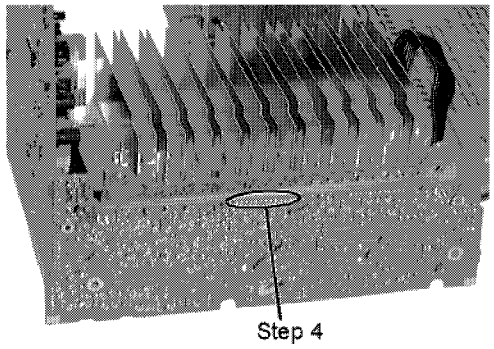
Step 2 Remove the wires at CN302, CN303 and CN304 and pull out the Main PCB.



Step 3 Remove the 4 screws fixed to the Power Amplifier IC.



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

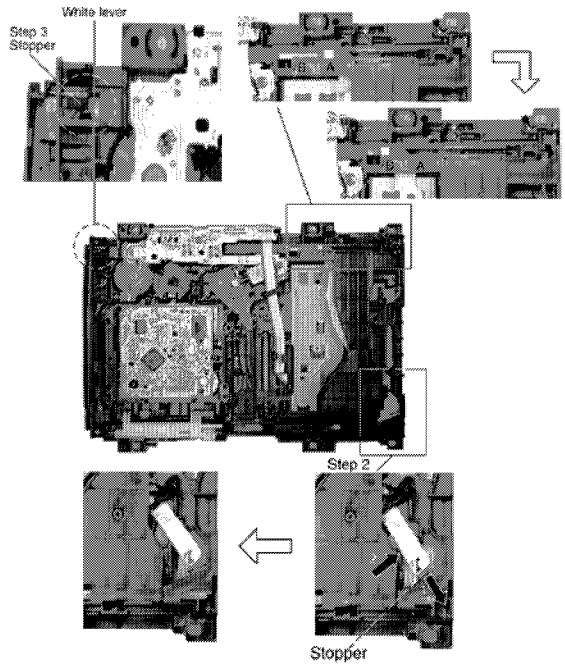


8.3. Disassembly and assembly of the Traverse Unit

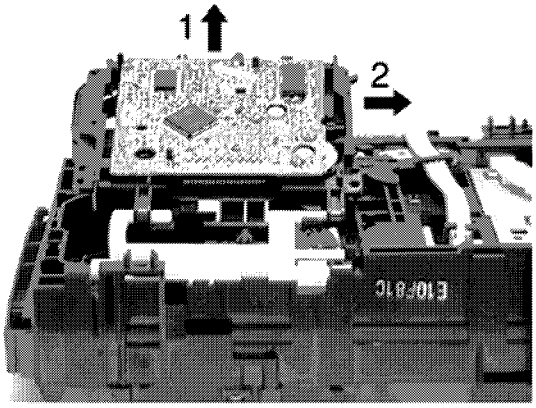
Step 1 Push the lever from position A to B.

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

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



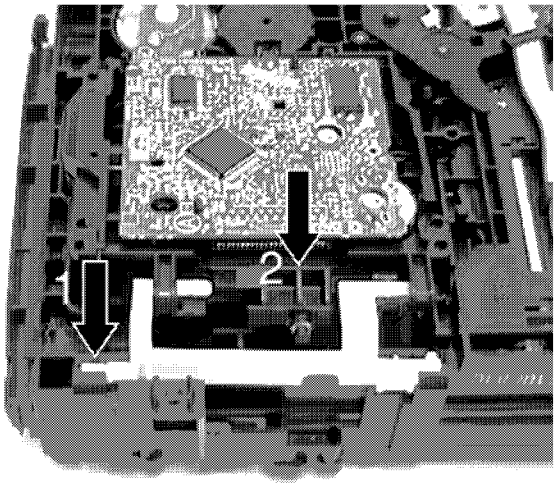
Step 4 Lift up the traverse unit and slide out the unit as shown.



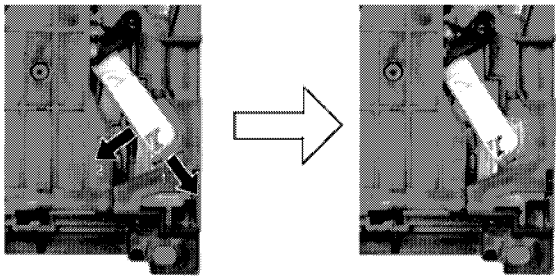
· Replacement of Traverse Unit

Step 1 Place the traverse unit as shown.

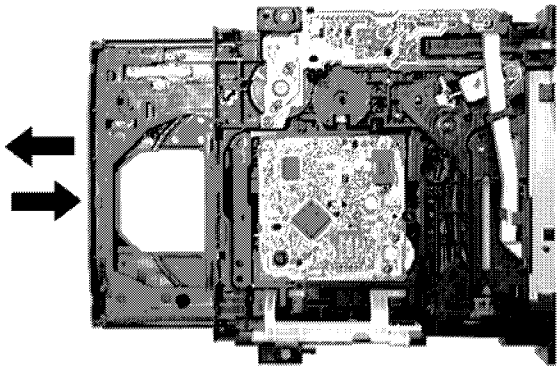
Step 2 Press in the lever shaft in the direction of arrow 1 as shown and push the traverse unit into the position in the direction of arrow 2.



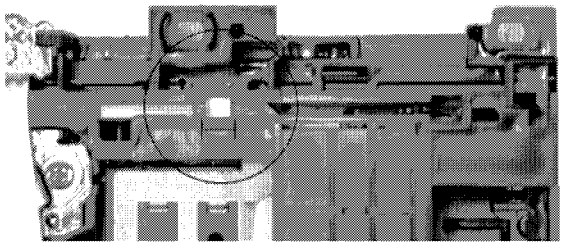
Step 3 Pull the stopper in the direction of arrow 1 and release the lever in the direction of arrow 2 as shown.



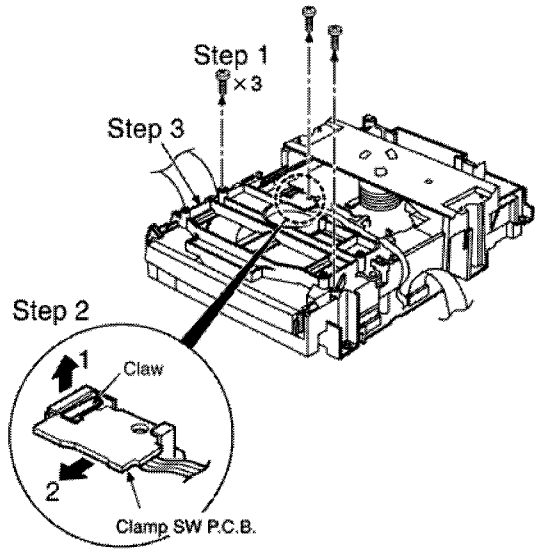
Step 4 Pull out the tray half way and push it back fully.



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

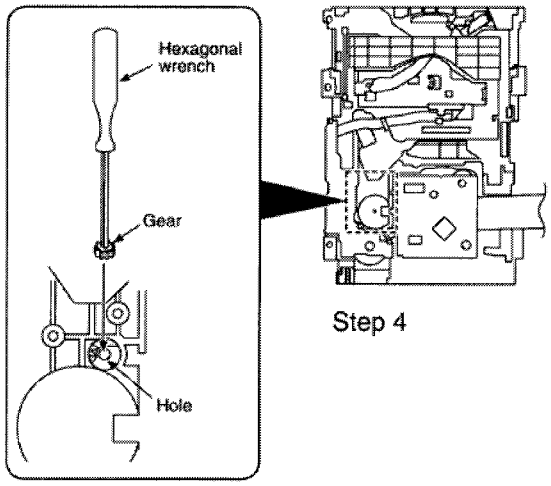


8.4. Disassembly and assembly of the Disc Tray

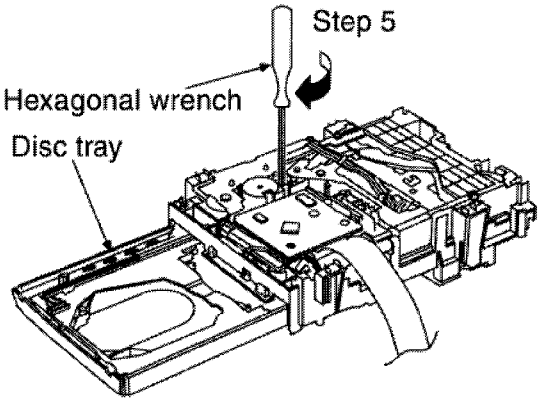


Step 2 With lifting the claw in the direction of arrow 1, draw the clamp SW P.C.B. in the direction of arrow 2.

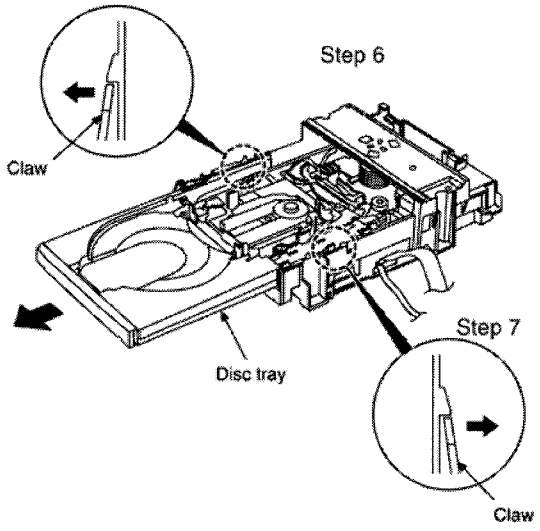
Step 3 Remove the mechanism cover.



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

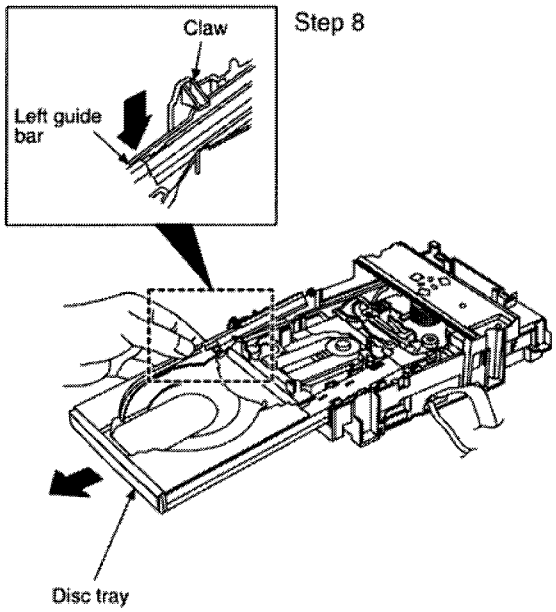


Step 5 Rotate the hexagonal wrench in the direction of arrow (clockwise), and then open the disc tray fully.



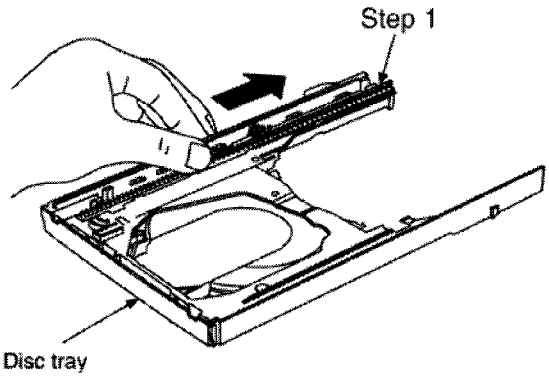
Step 6 Upset the CD changer unit again.

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

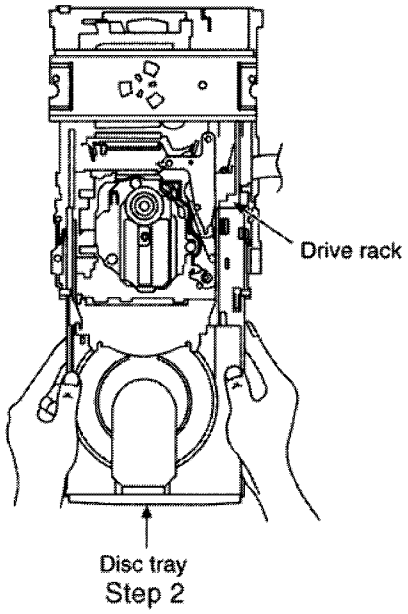


Step 8 With forcing the left guide bar manually because the left guide bar interferes with claw, draw the disc tray.

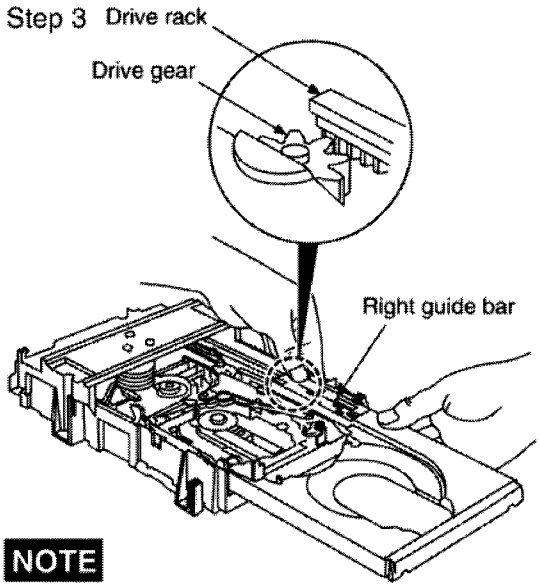
· Installation of the disc tray after replacement



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



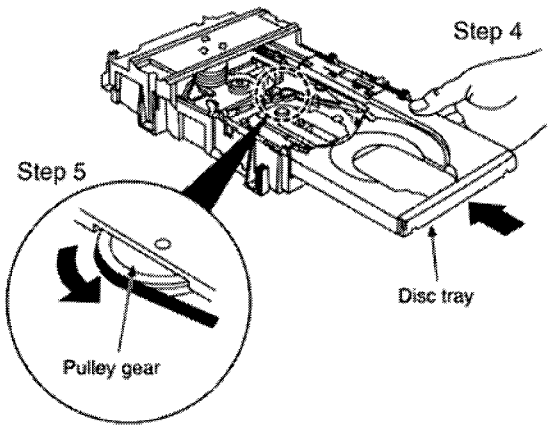
Step 2 Holding the drive rack, not to move, install the disc tray.



NOTE

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

Step 3 Align the drive rack with the drive gear.



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

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

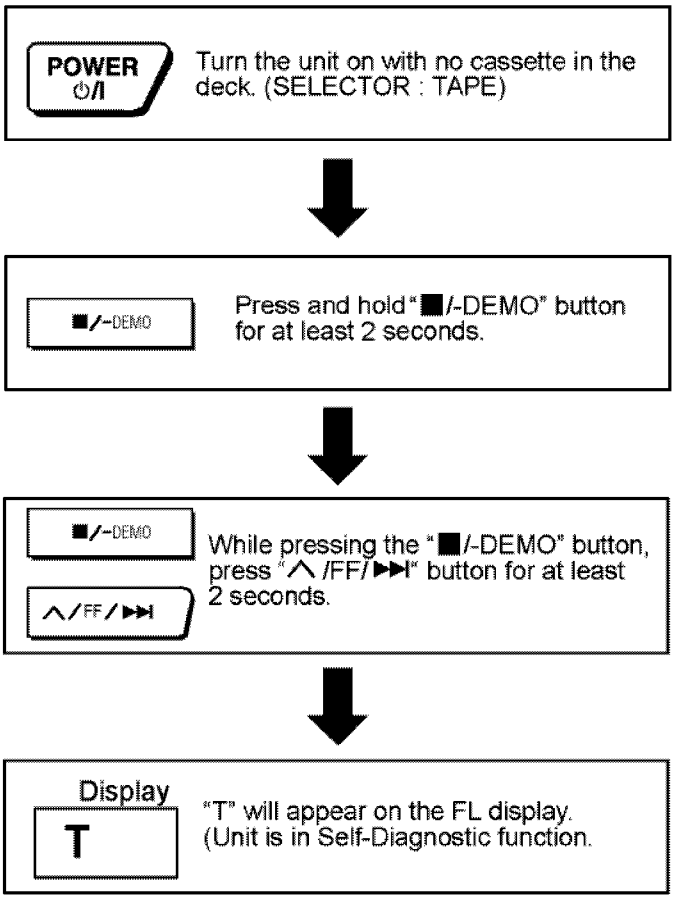
9 Self-Diagnostic Function

9.1. Self-diagnostic display

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

Use this function when performing maintenance on the unit.

9.2. How to enter the Self-Diagnostic Function



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

1. Press "TAPE, DECK 1/2" to select Deck 2.
2. Load a cassette tape with the erasure prevention tab, remove from left side only and close the cassette holder.
3. Press "FAST FORWARD MEMORY" (Tape will be stop after 2 seconds)
4. Load a cassette tape with the erasure prevention tab, remove from right side only and close the cassette holder.
5. Press "REVERSE FM MODE/BP" (Tape will be stop after 2 seconds)
6. Load a pre-recorded tape with both side record tabs intact and close the cassette holder.
7. Press "PLAY/TUNE/TIME ADJ UP" (After TPS function, tape will stop automatically)
8. Press "REC/STOP" (Tape will not move)
9. Press "STOP/TUNE MODE" to indicate Error code.
   - If several problem exist, error code will change each time when "n /TUNE MODE" is pressed.

   (e.g. H01 → H03 → F01 .....etc.)
10. Press "TAPE, DECK 1/2" to select Deck 1.
11. Repeat step 2 to 9 to test Deck 1. (Tape Deck 1 will not check H02 because of no recording function)

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

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

9.5. To clear all Error code

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

9.6. How to get out from Self-Diagnostic function

1. Press "Power" button OFF.

9.7. Power Amplifier Failure (F61)

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

10 Description of Error Code

10.1. Error detection for Cassette Mechanism block

No.	Error	Error Display	Problem condition
1	MODE SW detection error	H01	Faulty operation of cassette mechanism. Faulty contact or short-circuit of mechanism mode switch (S951, S971).
2	REC INH SW detection error	H02	Recording not possible. Faulty contact or short-circuit of REC INH switch (S974, S975).
3	HALF SW detection error	H03	Playback cannot perform. Faulty contact or short-circuit of HALF siwtch (S952, S972).
4	Reel Pulse detection error	F01	The tape advances slightly and then stops. Faulty reel pulse, faulty hole detect IC (IC951, IC971).
5	TPS abnormal	F02	Cassette deck will not perform TPS function. Faulty playback EQ/recording amplifier IC (IC101).

10.2. Error detection for CD/Changer block

No.	Error	Error Display	Problem condition
1	REST SW detection error	F15	CD does not function. This error occurs when the Optical Pick Up REST SW (S701) is not detected within the specified time (about 8 seconds)
2	CD tray opens automatically	F16	CLAMP switch (S4) NG (Check & Replace)
3	Does not startup when [PLAY] button is pressed	F17	BOTTOM switch (S5) NG (Check & Replace)
4	Transmission error between CD servo LSI and micon	F26	CD does not function. This error occurs when the POWER is ON for the CD block and an error is detected after the transmission has started.
5	Startup fails even when you insert CD or the selected disc tray does not open	F27	Tray 1 detect switch or Tray 2 detect switch NG (Check & Replace)
6	Cannot insert CD	F28	Tray 1 detect switch NG (Check & Replace)
7	Cannot eject CD	F29	Check if disc is stuck. Tray 2 detect switch NG (Confirm & Replace)
8	The CD tray closes	H15	CD disc tray detect switch NG (S3) (Check & Replace)

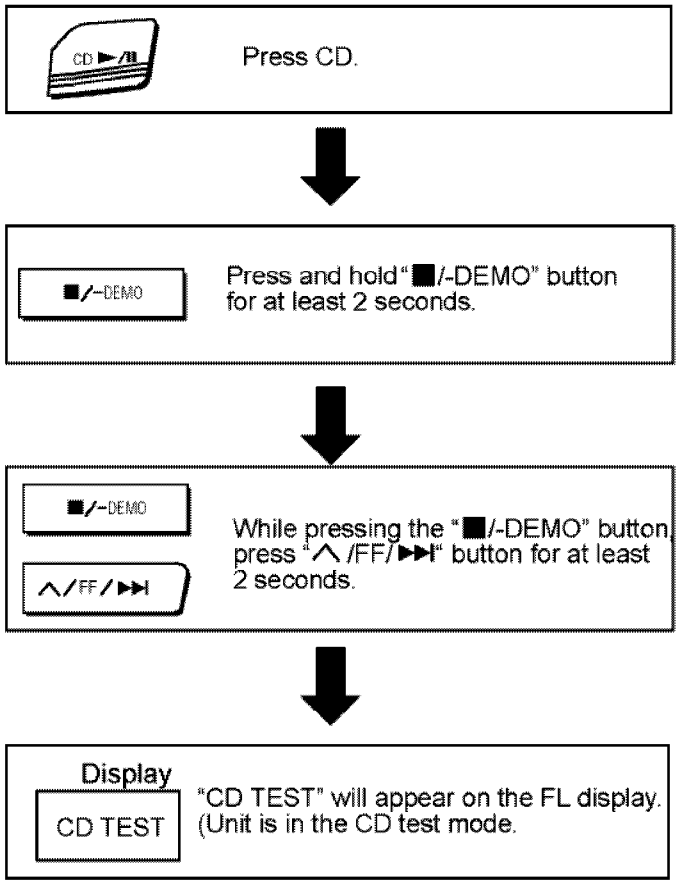
10.3. Power Supply related error detection

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

11 CD Test Mode Function

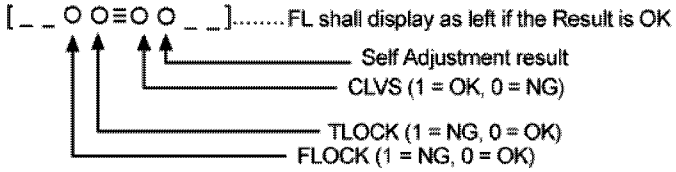
This CD test mode is provided to check CD unit without connecting to changer loading mechanism. This mode shall operate CD PLAY with CD unit being connected only and CD Automatic Alignment result is shown on FL display.

11.1. How to set CD test mode



11.2. CD Automatically Adjustment result indication

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



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

12 Measurements and Adjustments

12.1. Cassette Deck Section

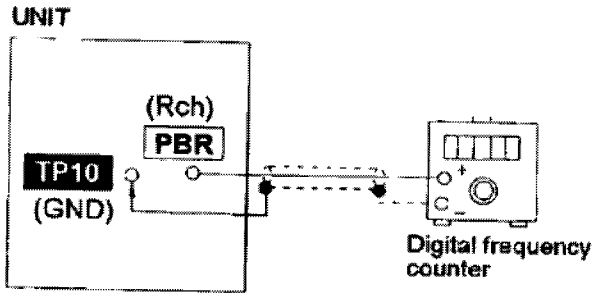
- Measurement Condition
  - Make sure head, capstan and press roller are clean.
  - Judgeable room temperature 20 ± 5 °C (68 ± 9°F)
- Measuring instrument
  - EVM (Electronic Volmeter)
  - Digital quency counter
- Test Tape
  - Tape speed gain adjustment (3 kHz, -10 dB); QZZCWAT

12.1.1. Tape Speed Adjustment (Deck 1/2)

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

   Adjustment target: 2940 ~ 3060 Hz (NORMAL speed)

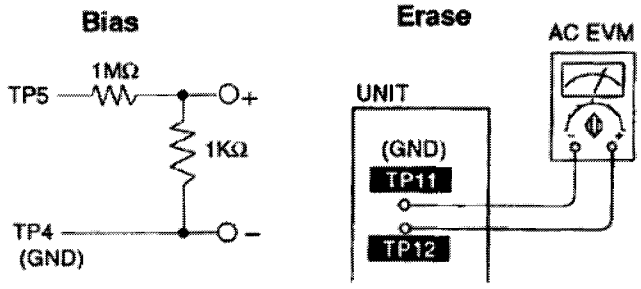
4. After alignment, assure that the output frequency of the DECK 1 FWD are within ±60 Hz of the value of the output frequency of DECK 2 FWD.



12.1.2. Bias and Erase Voltage Check

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

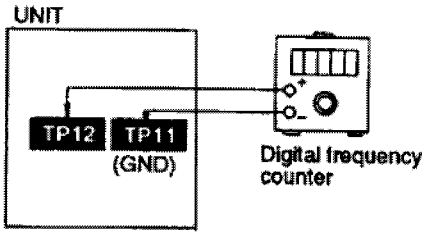
Bias voltage for Deck 2	14 ± 4mV (Normal)
Erase voltage for Deck 2	80mV (Normal)



12.1.3. Bias Frequency Adjustment (Deck 1/2)

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

   Standard Value: 97 ±8 kHz



12.2. Tuner Section

12.2.1. AM-IF Alignment

- **AM-IF ALIGNMENT**

SIGNAL GENERATOR OR SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER OSCILLOSCOPE)	**ADJUSTMENT(Shown in Fig.3)**	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	450 kHz 30% Mod. at 400Hz.	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.	Z102 (AM IFT)	Adjust for maximum output.

· **AM-RF ALIGNMENT**

SIGNAL GENERATOR OR SWEEP GENERATOR		RADIO DIAL SETTING	**INDICATOR (ELECTRONIC VOLTMETER OSCILLOSCOPE)**	**ADJUSTMENT(Shown in Fig.1)**	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	520 kHz	Tuning capacitor fully closed.	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Z101 (AM OSC Coil)	Adjust for maximum output.
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	600 kHz	Tuning capacitor fully open.	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Z101 (AM ANT Coil)	Adjust for maximum output.

12.3. Alignment Points

Cassette Deck Section

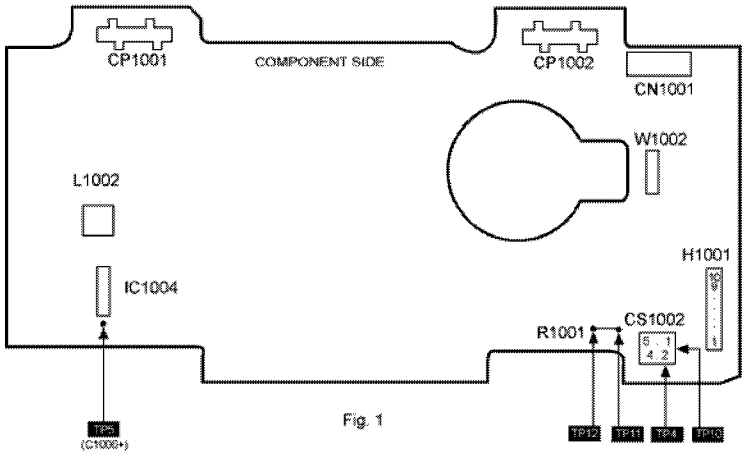


Fig. 1

Tuner Section

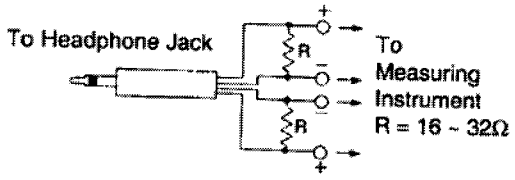


Fig. 2

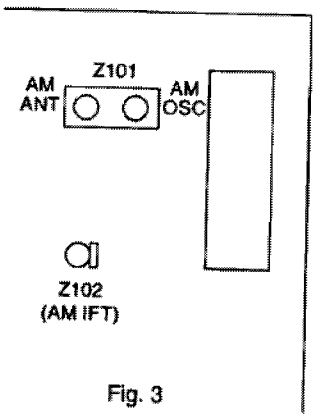
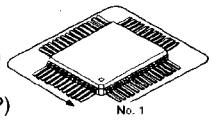


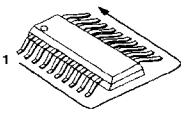
Fig. 3

13 Illustration of IC's, Transistors and Diodes

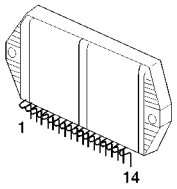
C1BB00000654 (42P)
C2BBGF000323 (64P)
C2BBGF000325 (100P)
MN101C427MA2 (44P)
MN662790RSC (80P)
MN1933222MD2 (100P)



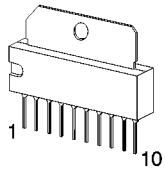
AN7348STA-E1 (24P)
AN8885SBE1 (28P)
BU2090AF-E2 (16P)
LA1833NMNTLM (24P)
LC72131MDTRM (20P)



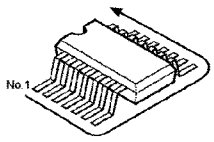
RSN35H2-P



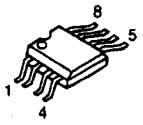
TA7291P



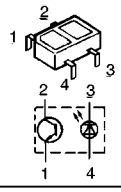
TC74HC4050EL (16P)
TC74HC157AFT (16P)



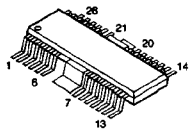
C0AABB000117



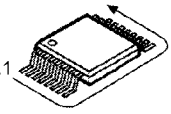
0N2180RLC1



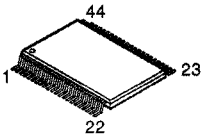
AN8739SBE2



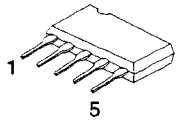
C0JBAK000133 (16P)



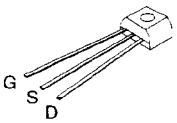
C3BBHG000048 (44P)



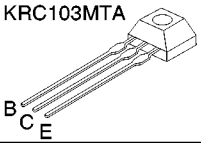
BA7755A



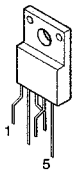
2SK544F-AC



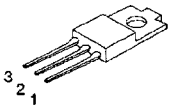
KRA102MTA
KRA110MTA
KRC102MTA
KRC103MTA



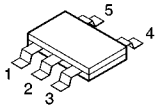
SI8050JLF118



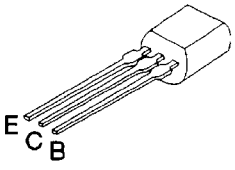
BA033T



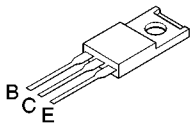
C0JBAB000007



KTA12710YTA
KTC3205YTA
KTD1146YTA
2SB621ARSTA
2SD592AQRSTA
B1AAKD000009



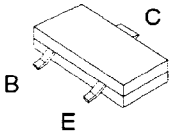
KTC2026
KTA1046



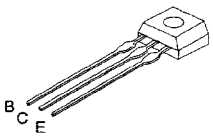
2SC2058SPTA

KRA102STA
KRC101STA
KRC102STA
KTC3875GRTA
KTD1304TA
2SA1037AKSTX
2SC2412KT96R
2SC2712GRT5T

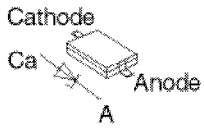
KRA111STA
UN5211TX



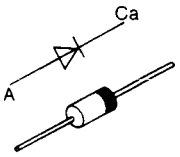
KTA1267GRTA
KTC3199GRTA
RVTDTC143EST
2SA933SSTA
2SC2786MTA
2SC2787FL1TA
2SD2144STA



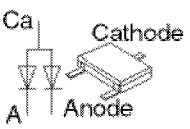
1SS355TE17
1SS380TE-17
UDZSTE1710B
UDZSTE173R1B
UDZSTE175R1B
UDZSTE177R5B



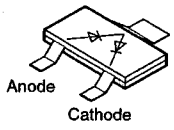
EK14LFH2K



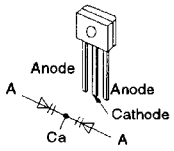
DAP202KT146



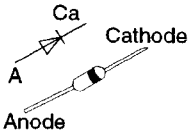
DA204KT146



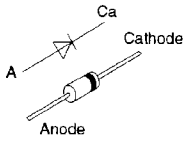
SVC211SPA-AL



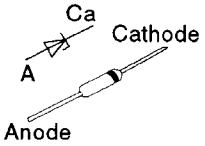
RVD1SS133TA
MA165TA
MA723TA



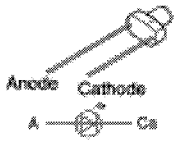
1D3E
RL1N4003N02



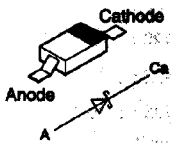
MTZJ4R7BTA
MTZJ5R6BTA
MTZJ6R6BTA
MTZJ10BTA
MTZJ15CTA
MTZJ16BTA
MTZJ33BTA



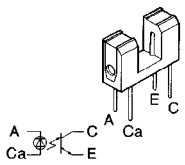
SLI325URCT31
SLR325YCT31



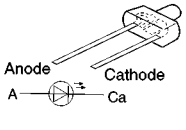
MA728TX



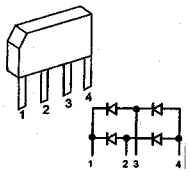
GP1S94



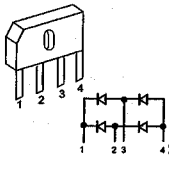
LNJ301MPUJAD



KBP152G4R5



KBU803-001



14 Terminal Function of IC's

14.1. IC701 (AN8885SBE1) Servo Amplifier

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

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

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

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

14.3. IC703 (AN8739SBE2) Focus coil/ Tracking coil/ Traverse motor/ Spindle motor driver

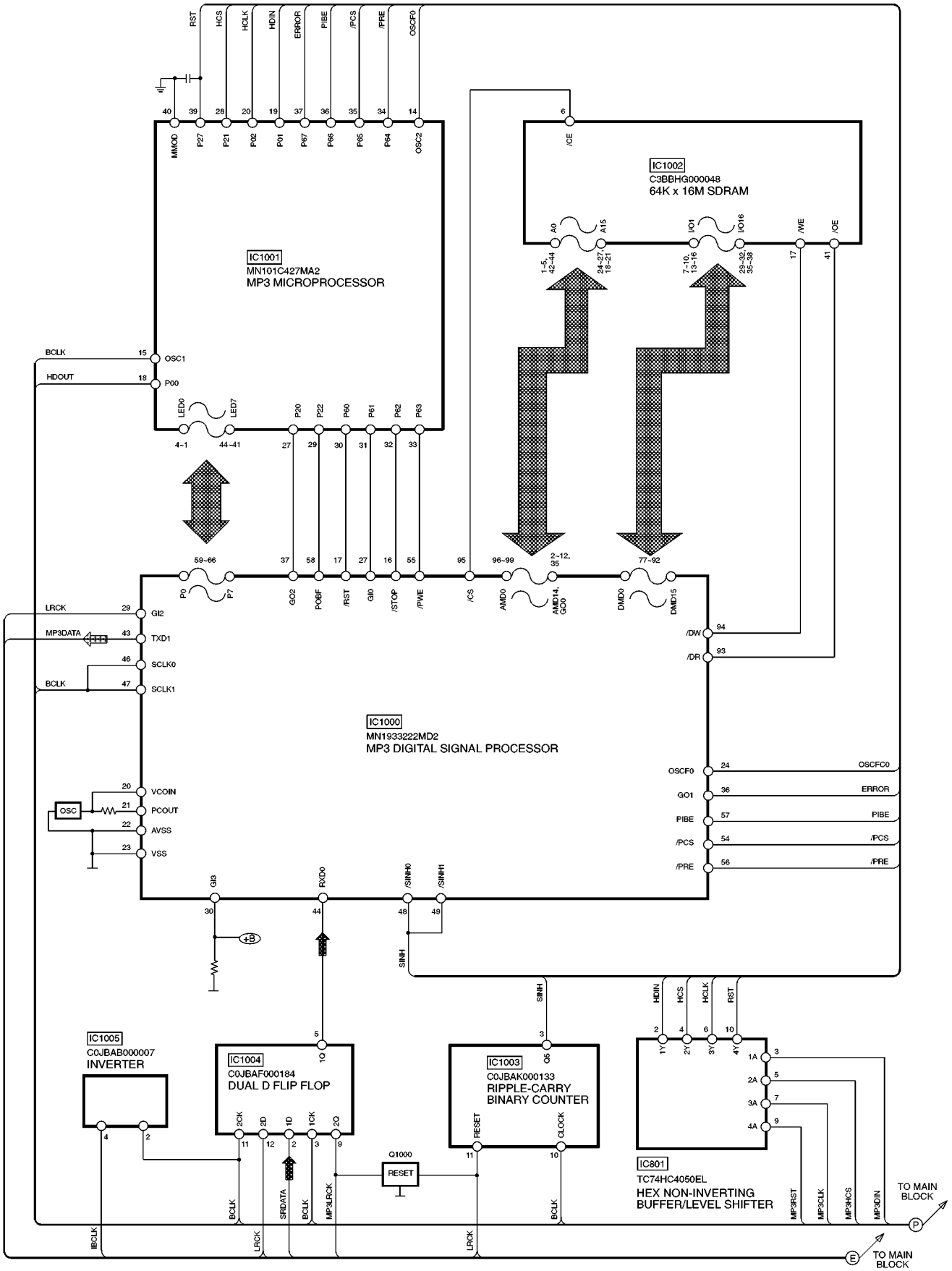
Pin No.	Mark	I/O	Function
1	/RST	-	RESET output terminal
2	NC	-	N.C.
3	IN2	I	Motor Drive (2) input
4	PC2	I	Turntable motor drive signal (“L :ON)
5	NC	-	N.C.
6	IN1	I	Motor driver (1) input
7	NC	I	N.C.
8	PVCC1	I	Power supply (1) for driver
9	PGND1	-	Ground connection (1) for driver
10	NC	-	N.C.
11	D1-	O	Motor driver (1) reverse-action output
12	D1+	O	Motor driver (1) forward-action output
13	D2-	O	Motor driver (2) reverse-action output
14	D2+	O	Motor driver (2) forward-action output
15	D3-	O	Motor driver (3) reverse-action output
16	D3+	O	Motor driver (3) forward-action output
17	D4-	O	Motor driver (4) reverse-action output
18	D4+	O	Motor driver (4) forward-action output
19	NC	-	N.C.
20	PGND2	-	Ground connection (2) for driver
21	PVCC2	I	Power supply (2) for driver
22	NC	-	N.C.
23	VCC	I	Power supply terminal
24	VREF	I	Reference voltage input
25	IN4	I	Motor driver (4) input
26	IN3	I	Motor driver (3) input
27	RSTIN	I	Reset terminal
28	NC	-	N.C.

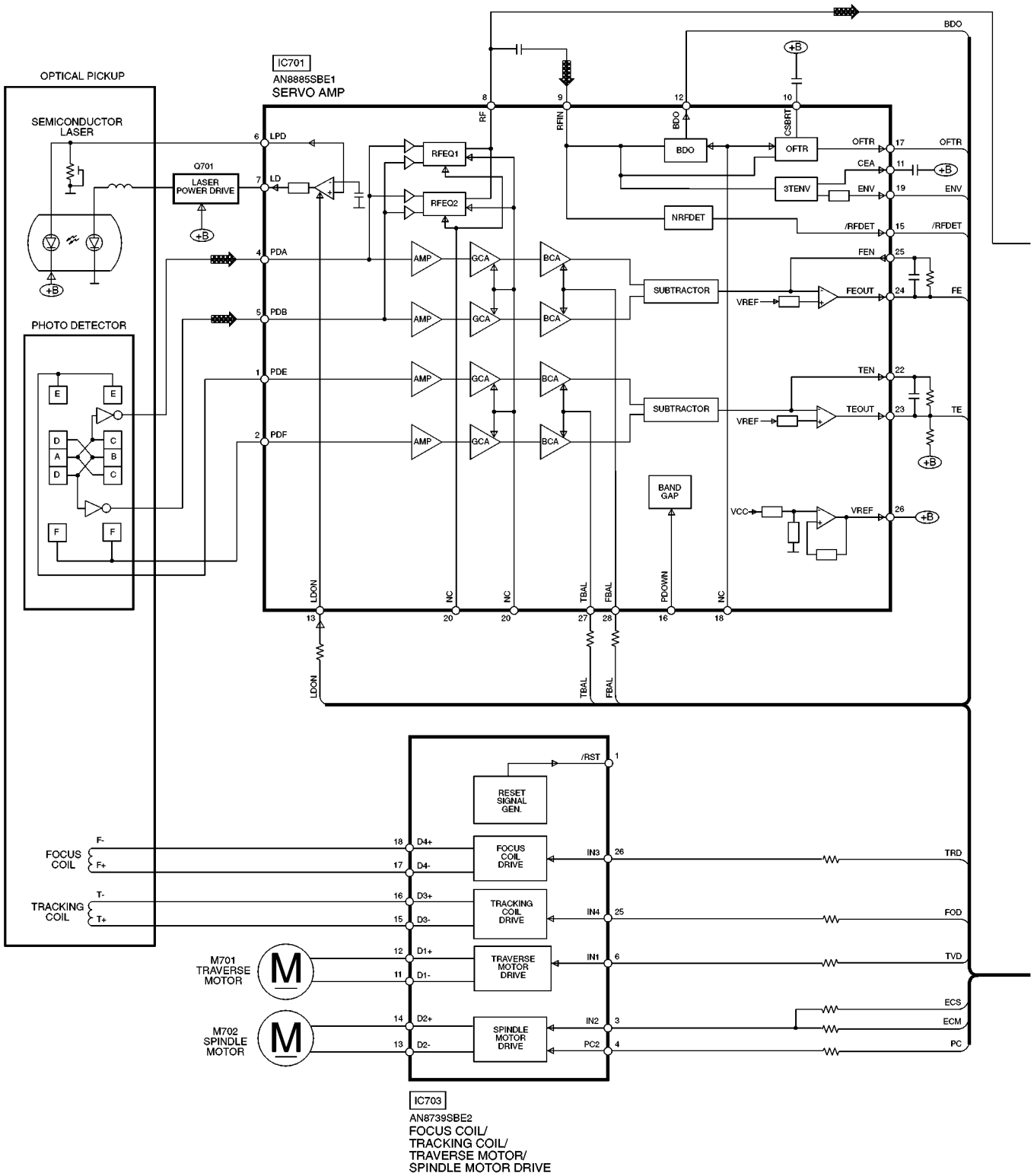
14.4. IC600 (C2BBGF000325) System Microprocessor

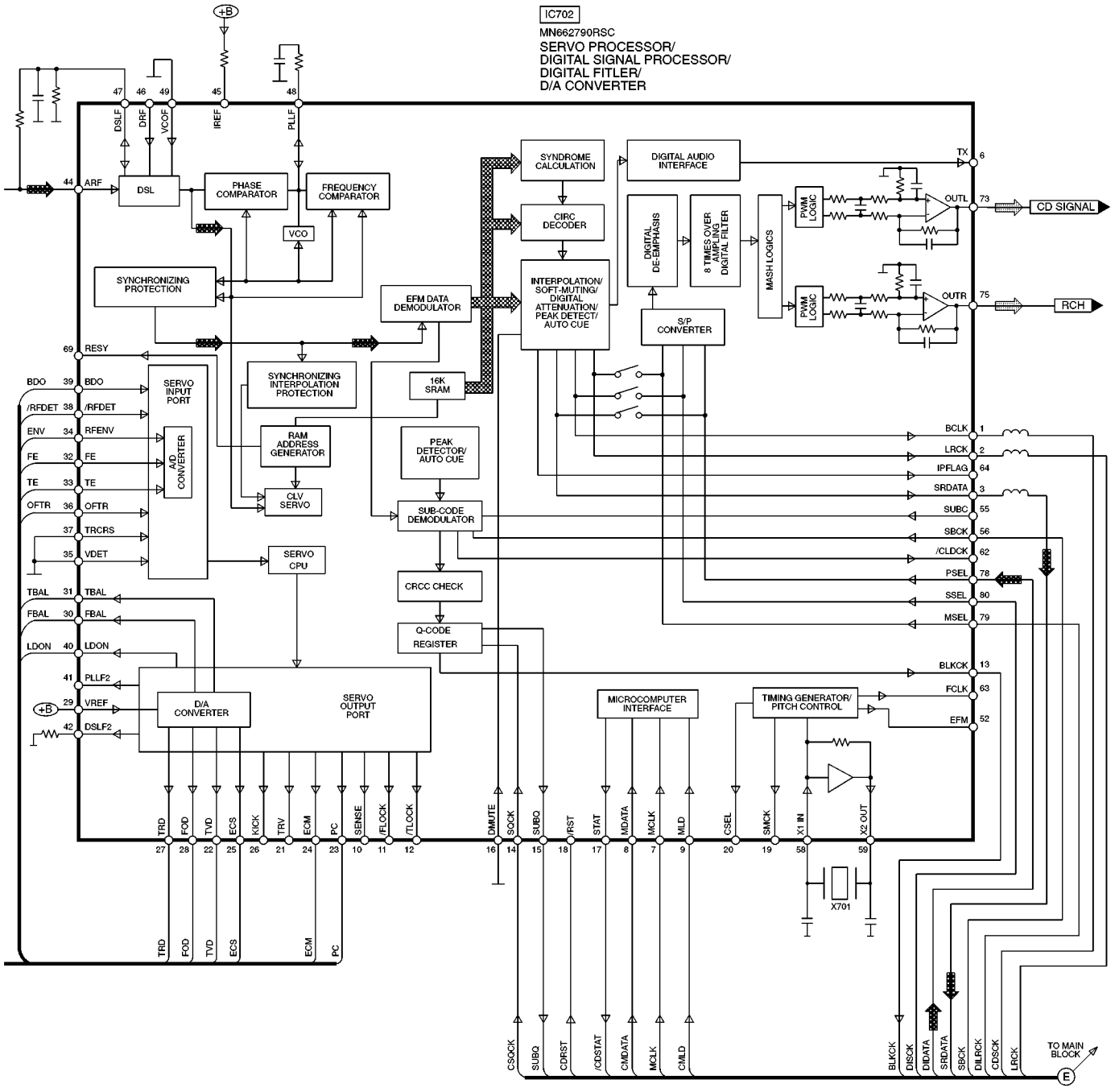
Pin No.	Mark	I/O	Function
1	DECK2	I	(RECI_F/MODE2/RECI _R/HALF2)
2	KEY3	I	Key 3 input
3	KEY2	I	Key 2 input
4	KEY1	I	Key 1 input
5	V_JOG	I	Volume jog AD detection
6	REG_IN	I	Region and Function Setting Input
7	EE_CS	O	EEPROM Chip Select
8	SER5	O	EE_CLK/ EX1_CLK
9	SER4	O	MK-_CLK
10	LM_L	I	Level meter left
11	LM_R	I	Level meter right
12	ST/DO/ SQCK	I/O	Tuner IF Data/Stereo Input and CD Sub Code Clock Output
13	SD	I	Tuner Signal Detect Input
14	SER3	O	EE_DAT/ EX1_DAT
15	NC	0	No Connection
16	NC	O	No Connection
17	CNVss	-	Flash Mode Terminal (Connect To Ground)
18	/RESET	-	RESET Input
19	XCOUT	-	32.768 kHz Sub Clock
20	XCIN	-	32.768 kHz Sub Clock
21	VSS	-	Ground (0V)
22	XIN	-	4.19 MHz Main Clock
23	XOUT	-	4.19 MHz Main Clock
24	VCC	-	Power Supply (+5V)
25	MBP1	O	MPU Beat Proof Output 1
26	MBP2	O	MPU Beat Proof Output 2
27	PLLCK	O	Tuner PLL Clock Output
28	PLLDA	O	Tuner PLL Data Output
29	RMT	I	Remote Control Input
30	NC	O	No Connection
31	PLLCE	O	Tuner PLL Chip Enable

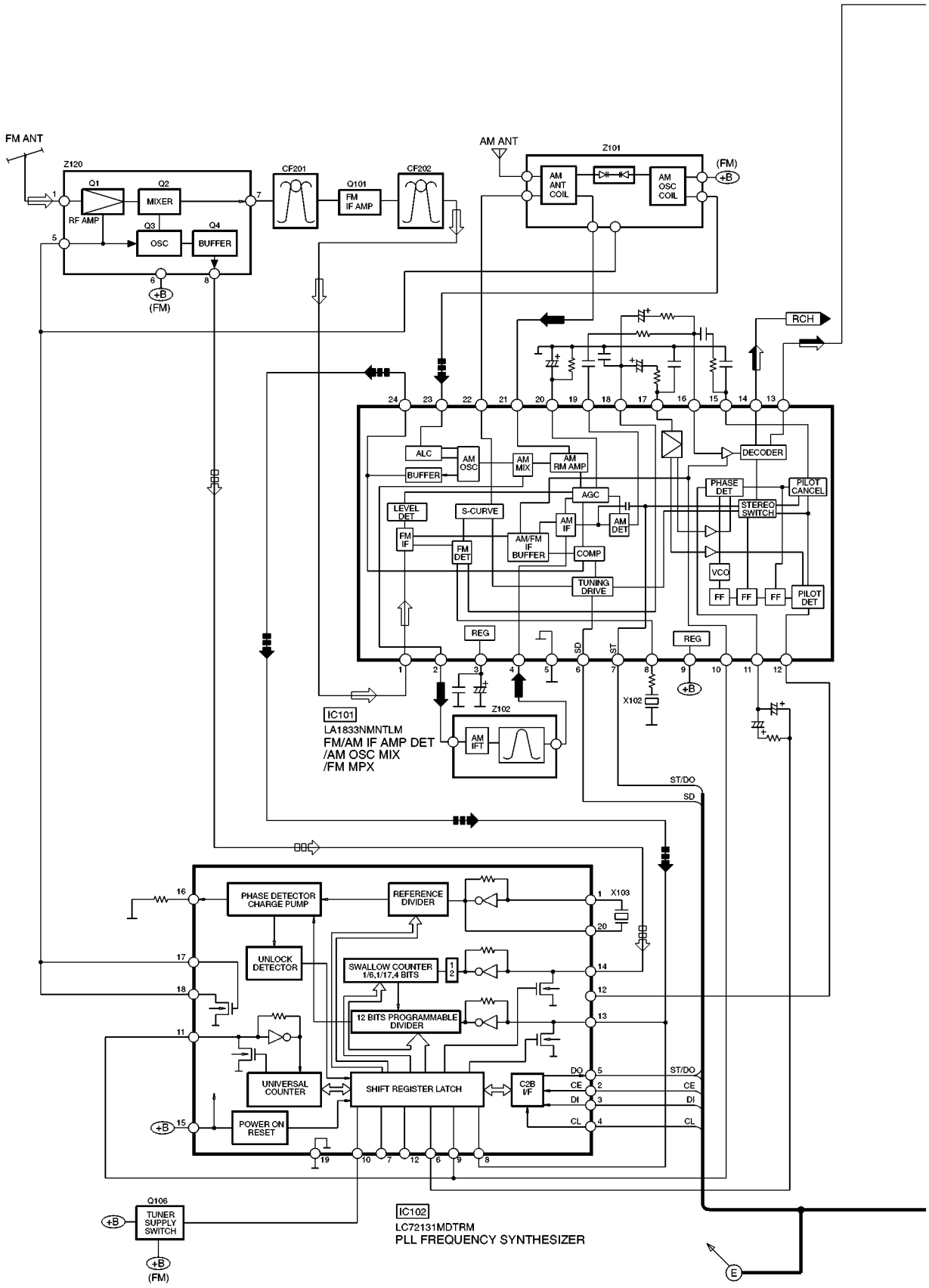
Pin No.	Mark	I/O	Function
32	SYNC	I	AC Failure Detect Input
33	DCDET	I	DC Detect Input
34	NC	O	No Connection
35	NC	O	No Connection
36	NC	O	No Connection
37	NC	O	No Connection
38	NC	O	No Connection
39	NC	O	No Connection
40	MM_RST	O	Mechacon Reset Control
41	PCONT	O	Main Transformer Control Output
42	LED_2	O	Backlight LED2 Control
43	LED_3	O	Backlight LED3 Control
44-77	SEG38 - SEG5	O	Segment Drive Output (Anode Drive Output)
78-80	REG4/ SEG11 - SEG2/ REG9	O	Segment Drive Output (Anode Drive Output)
81	SEG1/ REG8	O	Segment Drive Output (Regional/ Function Setting Use)
82-88	GRID7/ REG7- GRID1- REG1	O	Digit Drive Output (Grid Drive Output) For Regional Setting/ Function Selection Use
89	VEE	-	Power Supply (-30V)
90	MM_DIN	I	Serial Data From Mechacon (INPUT)
91	MM_DOUT	O	Serial Data To Mechacon (OUTPUT)
92	MM_CLK	I	Serial Clock From Mechacon
93	MM_REQ	O	Opecon Request to Mechacon
94	MM_CS	I	Mechacon Chip Select to Opecon
95	SER2	O	(ASP_CLK)
96	SER1	O	(ASP_DAT/ MK_DAT)
97	AVSS	-	Analog Ground (0V)
98	VREF	-	Reference for A-D
99	TPS	I	TPS/Chrome1/Chrome2
100	DECK1	I	(Half1/Mode/Photo1/ Photo 2)

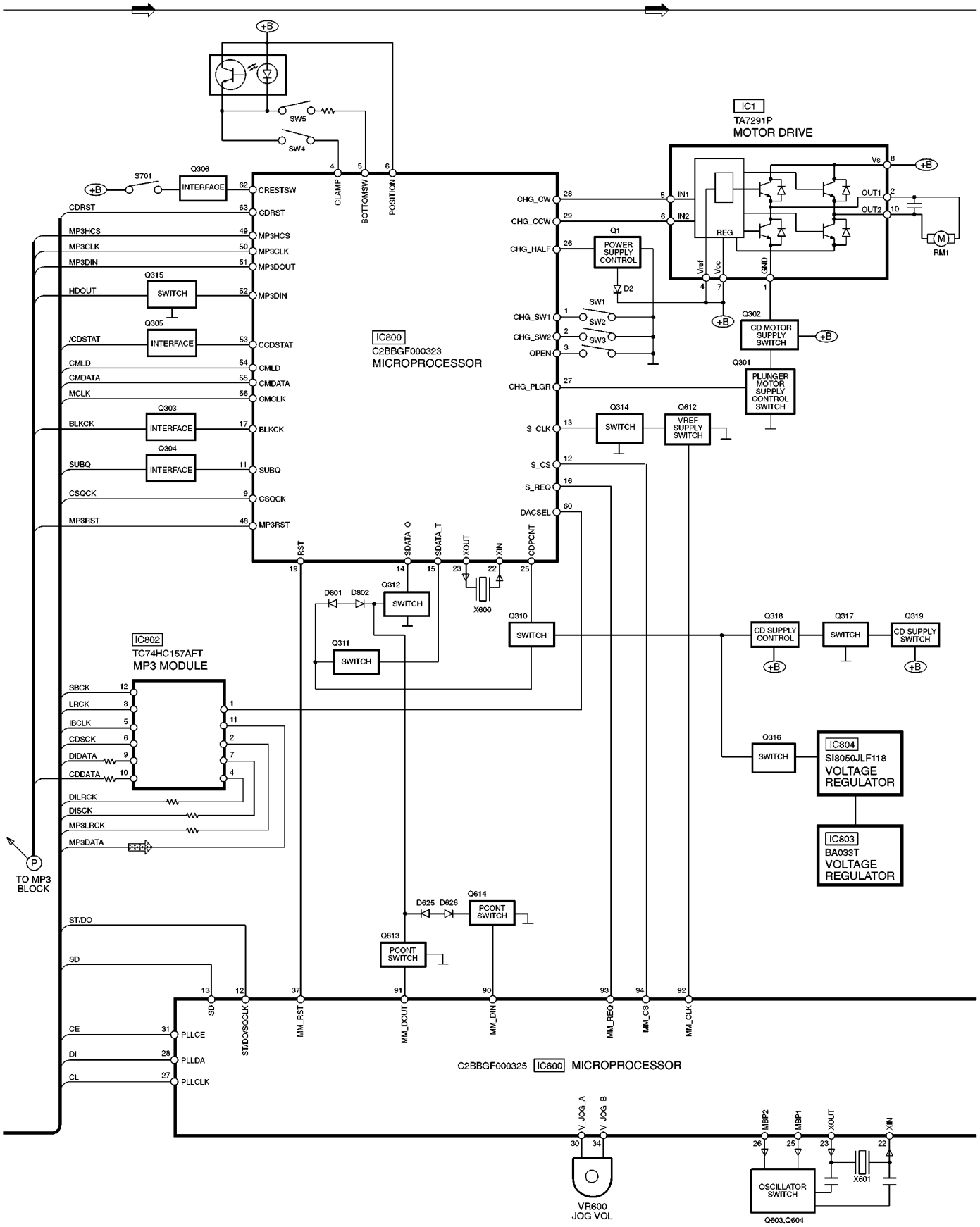
15 Block Diagram

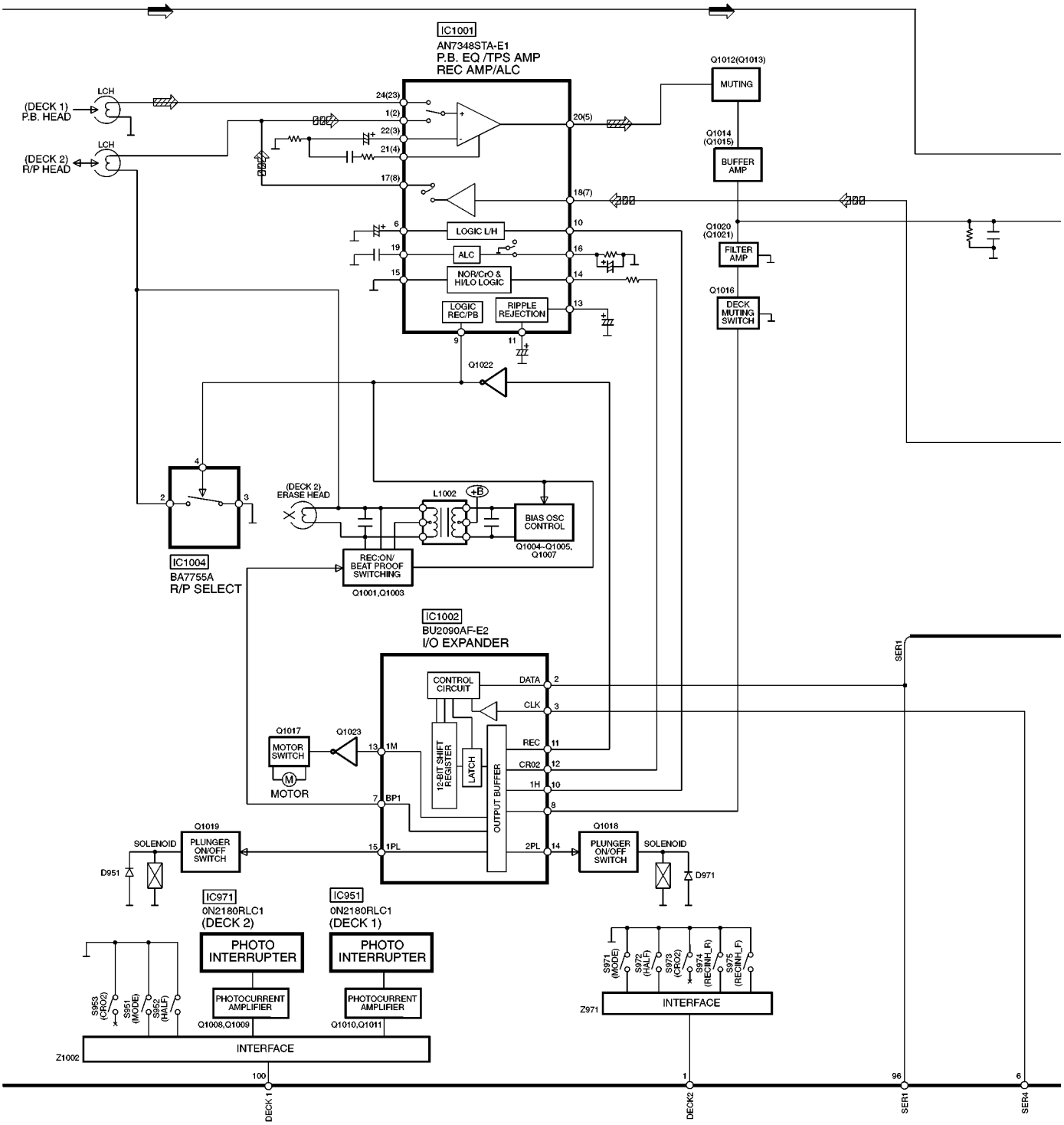



OPTICAL PICKUP
SEMICONDUCTOR LASER
PHOTO DETECTOR
Q701
LASER POWER DRIVE
IC701
AN8885SBE1
SERVO AMP
LPD
LD
PDA
PDB
PDE
PDF
RFEQ1
RFEQ2
AMP
GCA
BCA
SUBTRACTOR
VREF
BDO
OFTR
3TENV
NRFDET
FEN
FEOUT
TEN
TEOUT
BAND GAP
VCC
LDON
NC
TBAL
FBAL
PDOWN
RF
RFIN
CSBRT
CEA
ENV
/RFDET
FE
TE
+B
/RST
RESET SIGNAL GEN.
FOCUS COIL
TRACKING COIL
M701 TRAVERSE MOTOR
M702 SPINDLE MOTOR
FOCUS COIL DRIVE
TRACKING COIL DRIVE
TRAVERSE MOTOR DRIVE
SPINDLE MOTOR DRIVE
IN1
IN2
IN3
IN4
PC2
TRD
FOD
TVD
ECS
ECM
PC
IC703
AN8739SBE2
FOCUS COIL/
TRACKING COIL/
TRAVERSE MOTOR/
SPINDLE MOTOR DRIVE

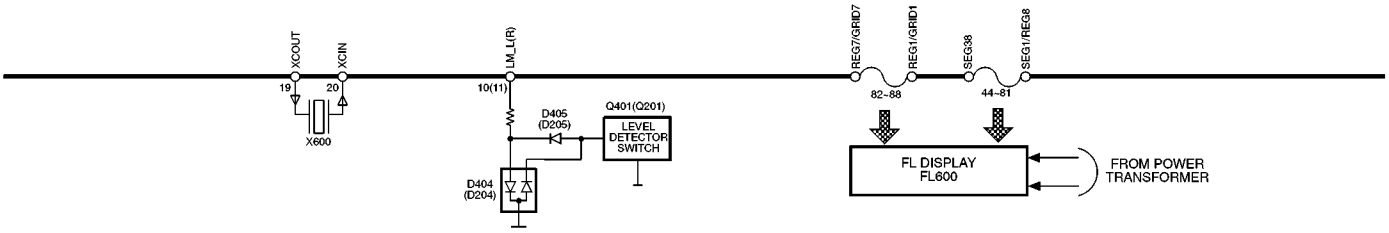

IC702
MN662790RSC
SERVO PROCESSOR/
DIGITAL SIGNAL PROCESSOR/
DIGITAL FITLER/
D/A CONVERTER
+B
DSLF
DRF
VCOF
IREF
PLLF
ARF
DSL
PHASE COMPARATOR
FREQUENCY COMPARATOR
VCO
SYNCHRONIZING PROTECTION
EFM DATA DEMODULATOR
SYNDROME CALCULATION
CIRC DECODER
INTERPOLATION/ SOFT-MUTING/ DIGITAL ATTENUATION/ PEAK DETECT/ AUTO CUE
DIGITAL AUDIO INTERFACE
DIGITAL DE-EMPHASIS
8 TIMES OVER SAMPLING DIGITAL FILTER
MASH LOGICS
PWM LOGIC
OUTL
OUTR
CD SIGNAL
RCH
S/P CONVERTER
RESY
SERVO INPUT PORT
SYNCHRONIZING INTERPOLATION PROTECTION
16K SRAM
RAM ADDRESS GENERATOR
A/D CONVERTER
CLV SERVO
PEAK DETECTOR/ AUTO CUE
SUB-CODE DEMODULATOR
SERVO CPU
CRCC CHECK
Q-CODE REGISTER
BDO
/RFDET
RFENV
FE
TE
OFTR
TRCRS
VDET
TBAL
FBAL
LDON
PLLF2
VREF
DSLF2
D/A CONVERTER
SERVO OUTPUT PORT
MICROCOMPUTER INTERFACE
TIMING GENERATOR/ PITCH CONTROL
X701
BCLK
LRCK
IPFLAG
SRDATA
SUBC
SBCK
/CLDCK
PSEL
SSEL
MSEL
BLKCK
FCLK
EFM
TX
TRD
FOD
TVD
ECS
KICK
TRV
ECM
PC
SENSE
/FLOCK
/TLOCK
DMUTE
SOCK
SUBQ
RST
STAT
MDATA
MCLK
MLD
CSEL
SMCK
X1 IN
X2 OUT
CSOCK
CDRST
/CDSTAT
CMDATA
CMCLK
CMLD
DISCK
DIDATA
DILRCK
CDSCK
LRCK
TO MAIN BLOCK
E

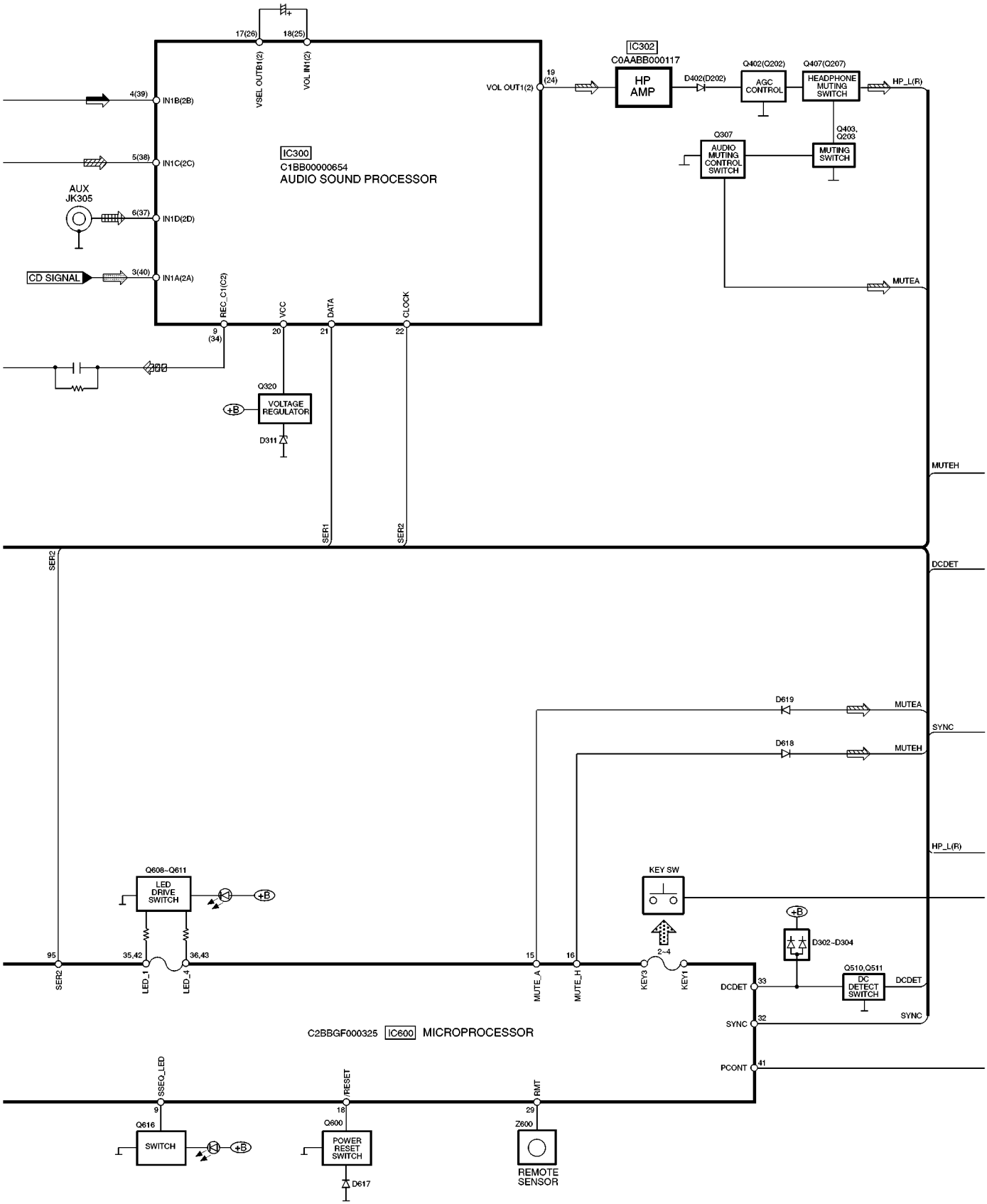

FM ANT
Z120
Q1
Q2
MIXER
RF AMP
Q3
OSC
Q4
BUFFER
+B
(FM)
CF201
Q101
FM IF AMP
CF202
AM ANT
Z101
AM ANT COIL
AM OSC COIL
(FM)
+B
RCH
ALC
AM OSC
BUFFER
AM MIX
AM RM AMP
DECODER
PHASE DET
PILOT CANCEL
AGC
LEVEL DET
S-CURVE
AM IF
AM DET
STEREO SWITCH
FM IF
FM DET
AM/FM IF BUFFER
COMP
TUNING DRIVE
VCO
FF
FF
FF
PILOT DET
REG
REG
SD
ST
X102
+B
Z102
AM IFT
IC101
LA1833NMNTLM
FM/AM IF AMP DET
/AM OSC MIX
/FM MPX
ST/DO
SD
PHASE DETECTOR CHARGE PUMP
REFERENCE DIVIDER
X103
UNLOCK DETECTOR
SWALLOW COUNTER 1/6,1/17,4 BITS
1/2
12 BITS PROGRAMMABLE DIVIDER
UNIVERSAL COUNTER
SHIFT REGISTER LATCH
C2B I/F
DO
CE
DI
CL
ST/DO
CE
DI
CL
POWER ON RESET
+B
Q106
TUNER SUPPLY SWITCH
+B
(FM)
IC102
LC72131MDTRM
PLL FREQUENCY SYNTHESIZER
E


IC1
TA7291P
MOTOR DRIVE
IC800
C2BBGF000323
MICROPROCESSOR
IC802
TC74HC157AFT
MP3 MODULE
IC804
SI8050JLF118
VOLTAGE REGULATOR
IC803
BA033T
VOLTAGE REGULATOR
C2BBGF000325 IC600 MICROPROCESSOR
VR600
JOG VOL
Q1
POWER SUPPLY CONTROL
Q301
PLUNGER MOTOR SUPPLY CONTROL SWITCH
Q302
CD MOTOR SUPPLY SWITCH
Q303
Q304
Q305
Q306
Q310
Q311
Q312
Q314
Q315
Q316
Q317
Q318
Q319
Q612
Q613
Q614
CD SUPPLY CONTROL
CD SUPPLY SWITCH
VREF SUPPLY SWITCH
PCONT SWITCH
OSCILLATOR SWITCH
Q603,Q604
INTERFACE
SWITCH
TO MP3 BLOCK
X600
X601
RM1
S701
SW1
SW2
SW3
SW4
SW5
D2
D801
D802
D625
D626
+B
CRESTSW
CDRST
MP3HCS
MP3CLK
MP3DOUT
MP3DIN
CCDSTAT
CMLD
CMDATA
CMCLK
BLKCK
SUBQ
CSQCK
MP3RST
CLAMP
BOTTOMSW
POSITION
CHG_CW
CHG_CCW
CHG_HALF
CHG_SW1
CHG_SW2
OPEN
CHG_PLGR
S_CLK
S_CS
S_REQ
DACSEL
RST
SDATA_O
SDATA_I
XOUT
XIN
CDPCNT
SBCK
LRCK
IBCLK
CDSCK
DIDATA
CDDATA
DILRCK
DISCK
MP3LRCK
MP3DATA
ST/DO
SD
CE
DI
CL
PLLCE
PLLDA
PLLCLK
ST/DO/SQCLK
MM_RST
MM_DOUT
MM_DIN
MM_REQ
MM_CS
MM_CLK
V_JOG_A
V_JOG_B
MBP2
MBP1
XOUT
XIN
IN1
IN2
REG
Vref
Vcc
GND
Vs
OUT1
OUT2



C2BBGF000325 IC600 MICROPROCESSOR

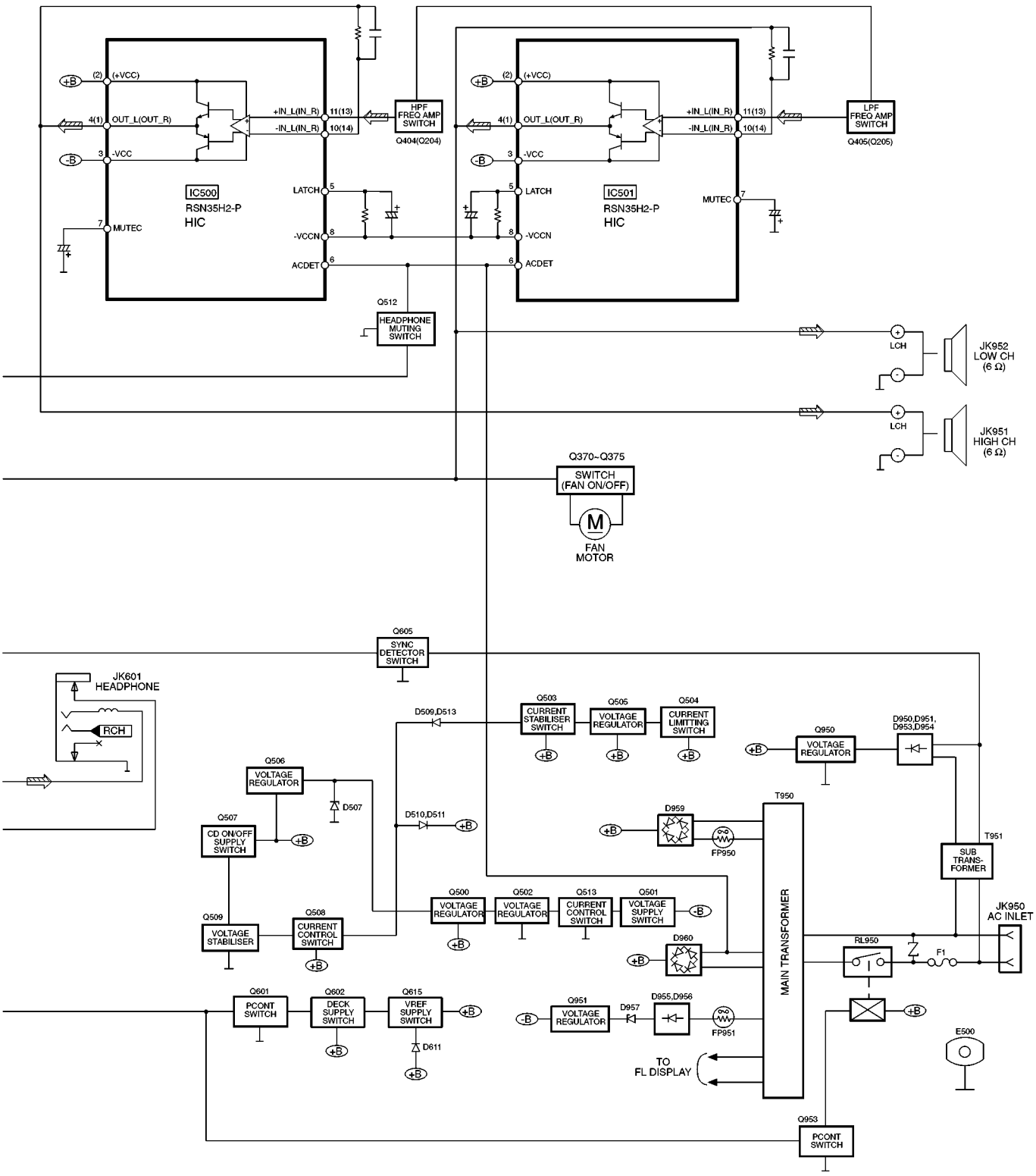



IC300
C1BB00000654
AUDIO SOUND PROCESSOR
IC302
C0AABB000117
HP AMP
AUX
JK305
CD SIGNAL
IN1B(2B)
IN1C(2C)
IN1D(2D)
IN1A(2A)
VSEL OUTB1(2)
VOL IN1(2)
VOL OUT1(2)
REC_C1(C2)
VCC
DATA
CLOCK
SER1
SER2
Q320
VOLTAGE REGULATOR
D311
D402(D202)
Q402(Q202)
AGC CONTROL
Q407(Q207)
HEADPHONE MUTING SWITCH
HP_L(R)
Q307
AUDIO MUTING CONTROL SWITCH
Q403, Q203
MUTING SWITCH
MUTEA
MUTEH
DCDET
SYNC
D619
D618
Q608~Q611
LED DRIVE SWITCH
KEY SW
D302~D304
Q510,Q511
DC DETECT SWITCH
LED_1
LED_4
MUTE_A
MUTE_H
KEY3
KEY1
C2BBGF000325 IC600 MICROPROCESSOR
PCONT
SSEQ_LED
/RESET
RMT
Q616
SWITCH
Q600
POWER RESET SWITCH
D617
Z600
REMOTE SENSOR

SIGNAL LINES

MAIN SIGNAL LINE	CD SIGNAL LINE	AM SIGNAL LINE	PLAYBACK SIGNAL LINE
FM OSC SIGNAL LINE	AM OSC SIGNAL LINE	FM & AM SIGNALS LINE	RECORDING SIGNAL LINE
FM SIGNAL LINE	MP3 SIGNAL LINE	CD-DA (AUDIO/VIDEO) SIGNAL LINE	AUX SIGNAL LINE

( ) INDICATES THE PIN NO. OF THE RIGHT CHANNEL



16 Schematic Diagram

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

Note:

S600 : Power switch
S601 : Display switch
S602 : Disc 1 switch
S603 : Disc 2 switch
S604 : Disc 3 switch
S605 : Disc 4 switch
S606 : Disc 5 switch
S607 : CD Open/ Close switch
S701 : Reset switch
S910 : CD Play switch
S911 : Tape Play switch
S912 : Tuner / Band switch
S913 : AUX switch
S914 : Super Sound EQ switch
S920 : Deck 2 Open switch
S921 : FF switch
S922 : Stop/ Demo switch
S923 : REW switch
S924 : Deck 1 Open switch
S925 : Deck 1/2 switch
S926 : Rec / Stop switch
S928 : Preset EQ switch/Subwoofer switch
S951 : Mode switch
S952 : Half switch
S953 : CR02 switch
S971 : Mode switch
S972 : Half switch
S973 : CR02 switch
S974 : Recinh_r switch
S975 : Recinh_f switch
S976 : Metal switch

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

No mark : Playback << >> : Rec < > : FM

(( )) : CD

- **Importance safety notice :**

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

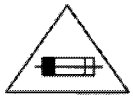
Caution !

IC, LSI and VLSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

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

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



RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION

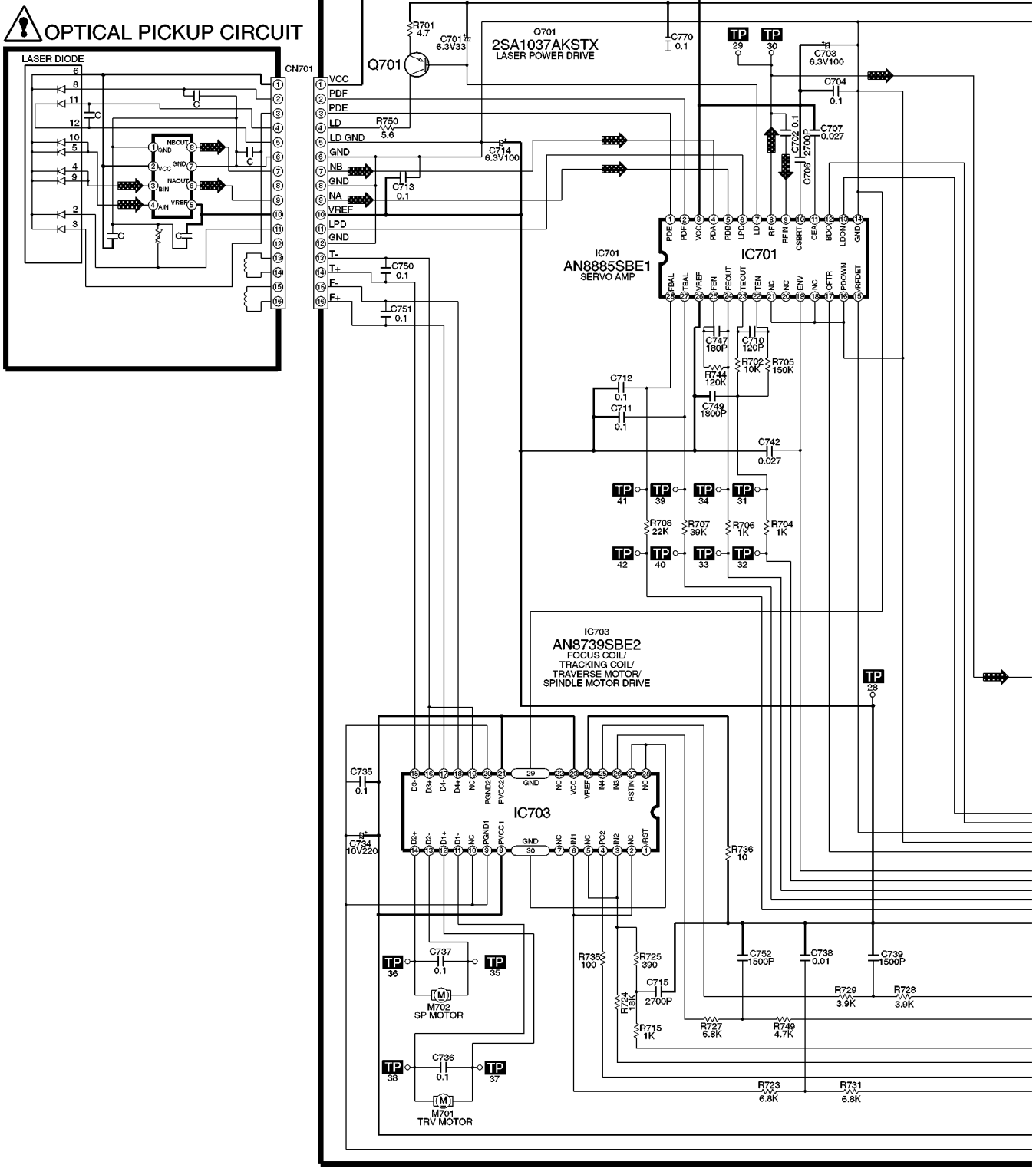
These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire harzard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

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.

SCHEMATIC DIAGRAM -1

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

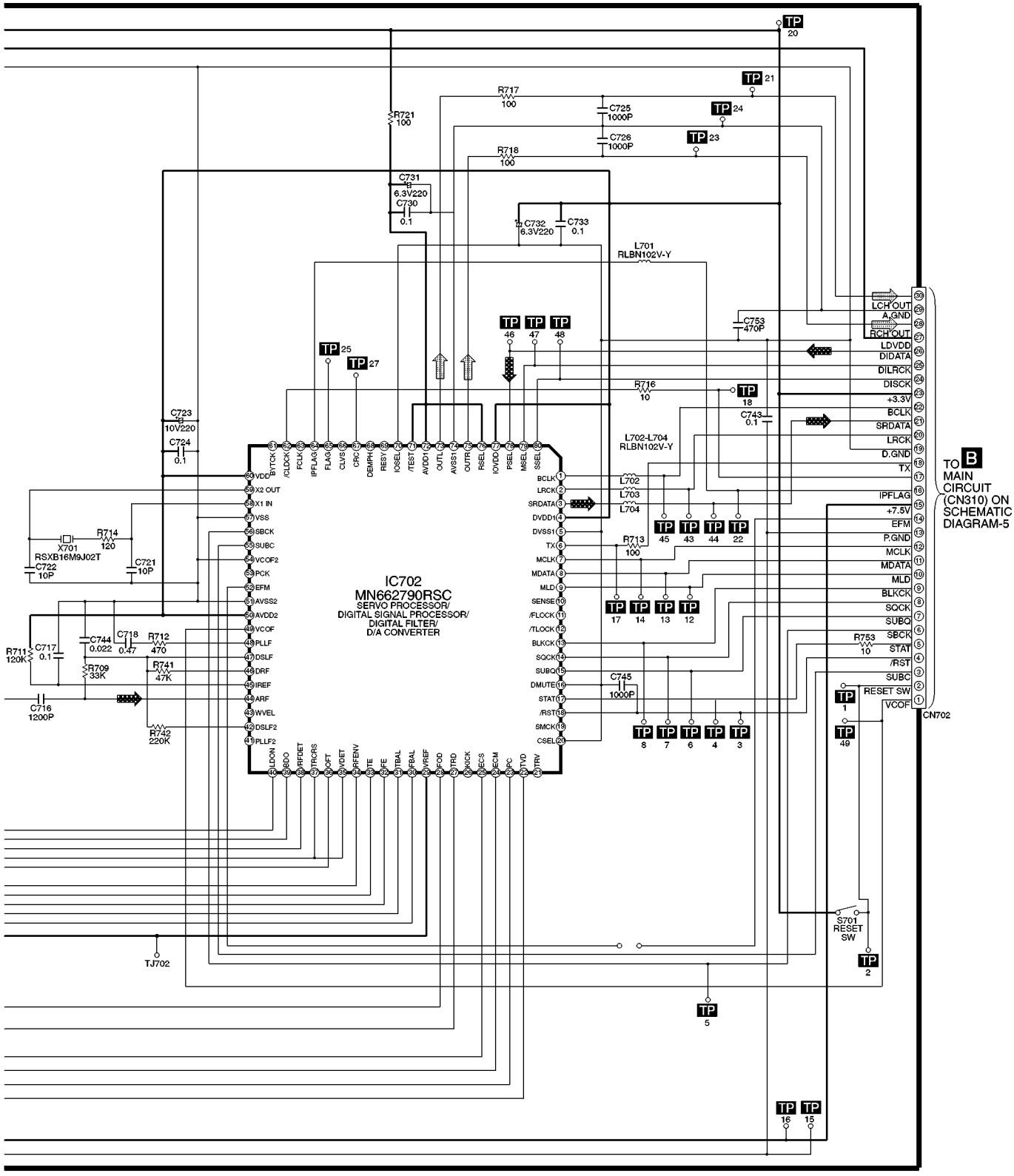
A CD SERVO CIRCUIT



SCHEMATIC DIAGRAM - 2

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

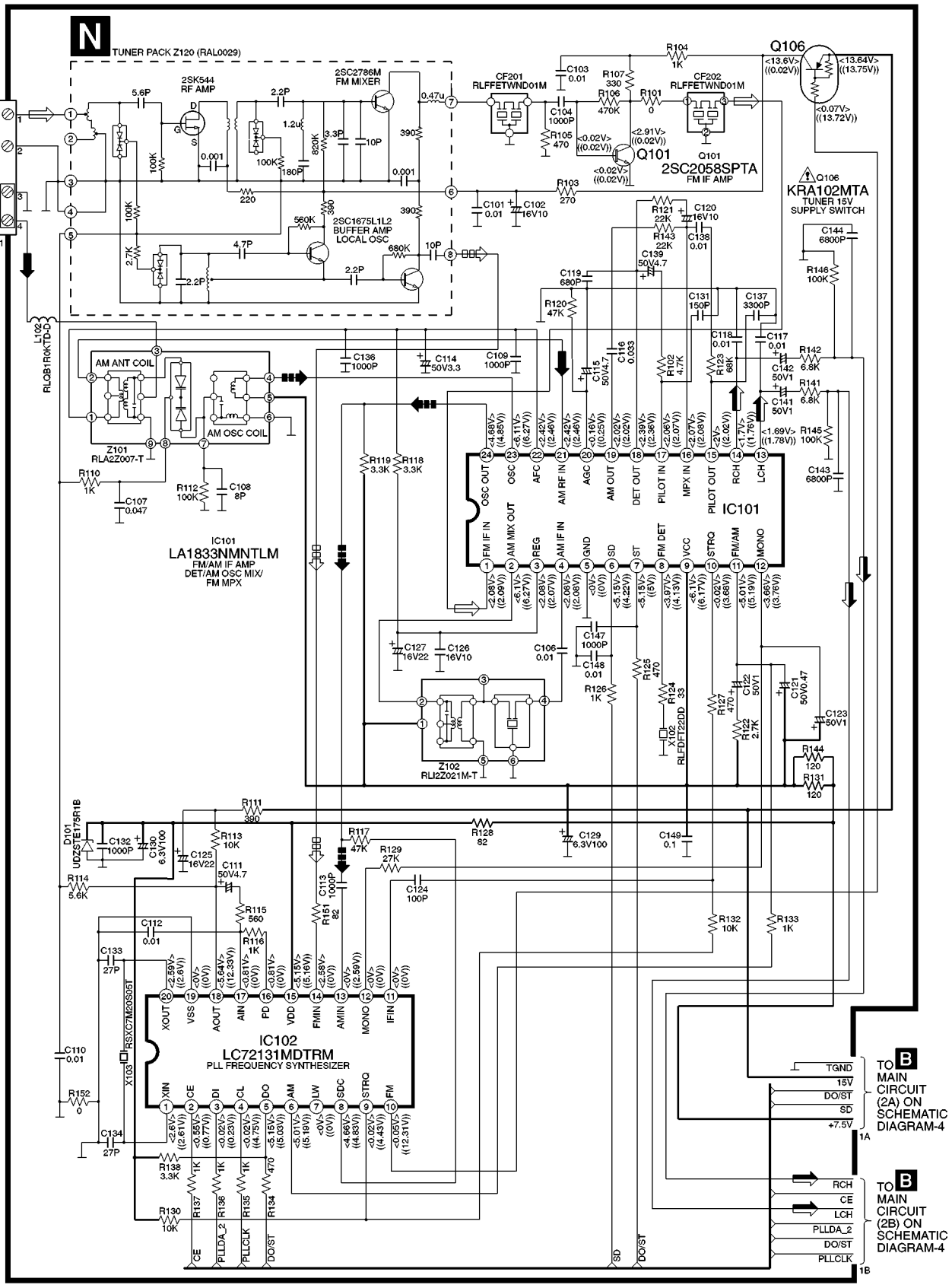
A CD SERVO CIRCUIT



SCHEMATIC DIAGRAM - 3

: +B SIGNAL LINE
: FM/AM SIGNAL LINE
: FM SIGNAL LINE
: FM OSC SIGNAL LINE
: AM SIGNAL LINE
: AM OSC SIGNAL LINE

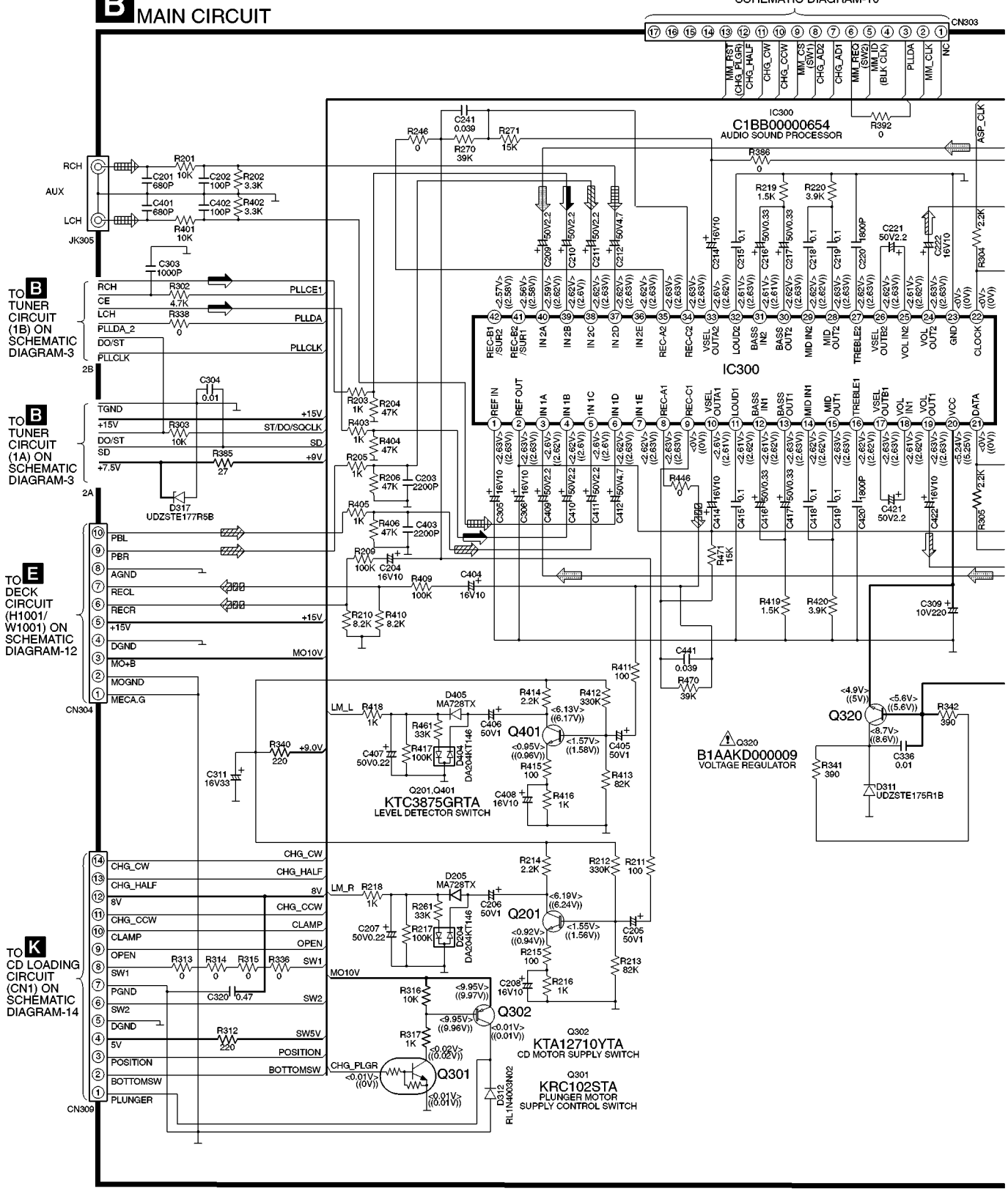
B TUNER/MAIN CIRCUIT



SCHEMATIC DIAGRAM - 4

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

B MAIN CIRCUIT

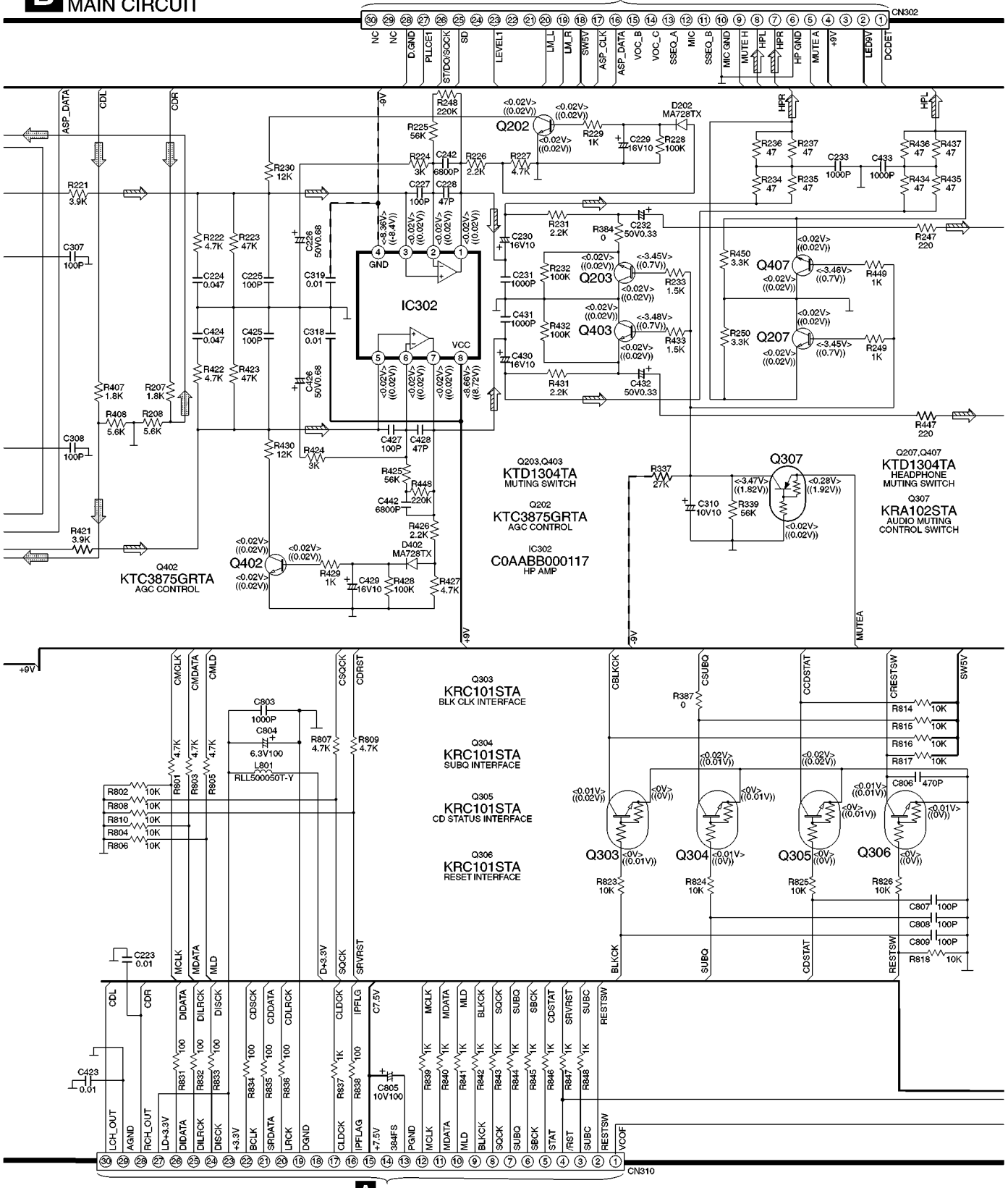


SCHEMATIC DIAGRAM - 5

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

B MAIN CIRCUIT

TO **C**
PANEL CIRCUIT
(CP600) ON
SCHEMATIC DIAGRAM-10

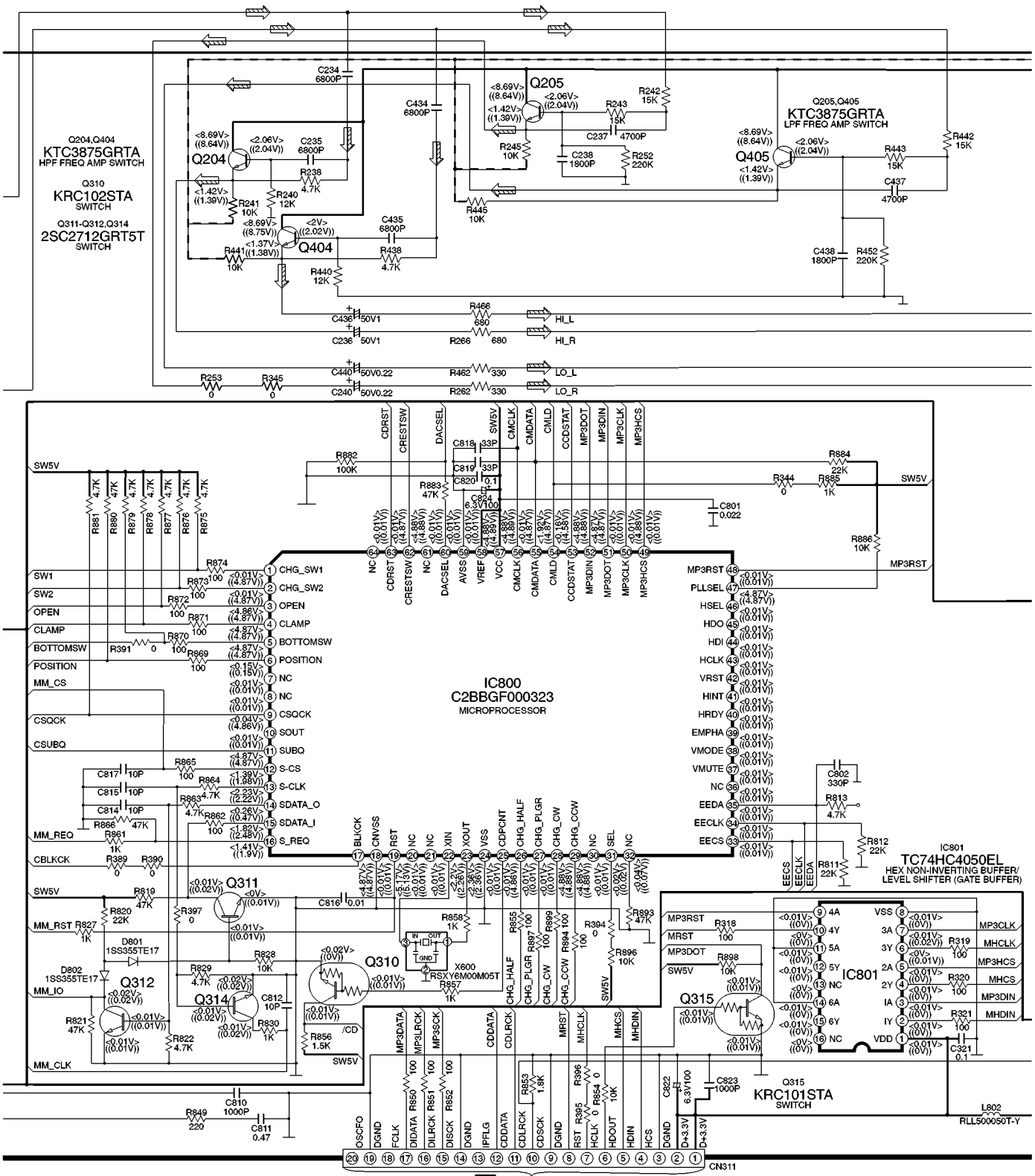


TO **A**
CD SERVO CIRCUIT
(CN702) ON
SCHEMATIC DIAGRAM-2

SCHEMATIC DIAGRAM - 6

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

B MAIN CIRCUIT

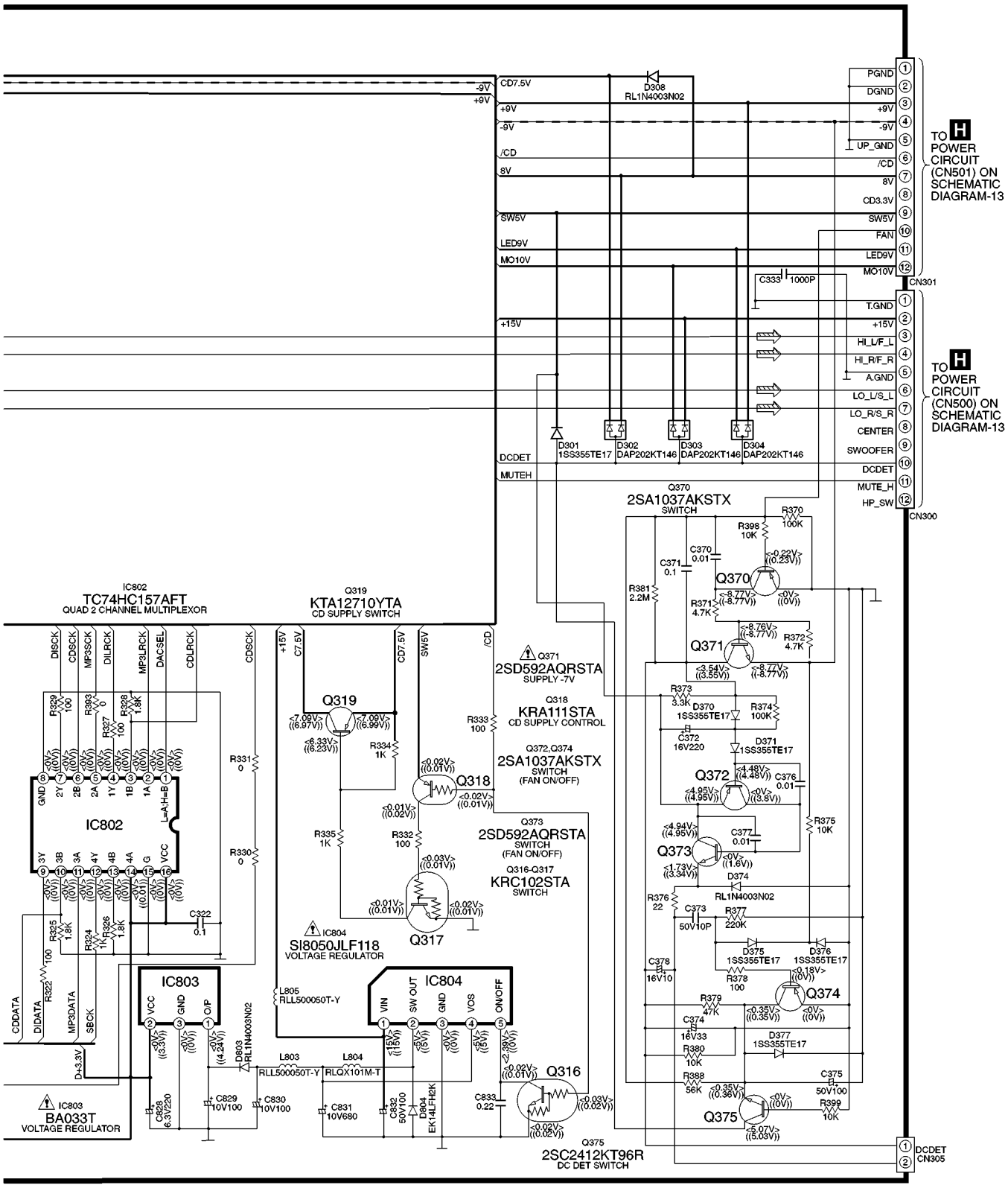


TO U
MP3 MODULE CIRCUIT (CN1000)
ON SCHEMATIC DIAGRAM-16

SCHEMATIC DIAGRAM - 7

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

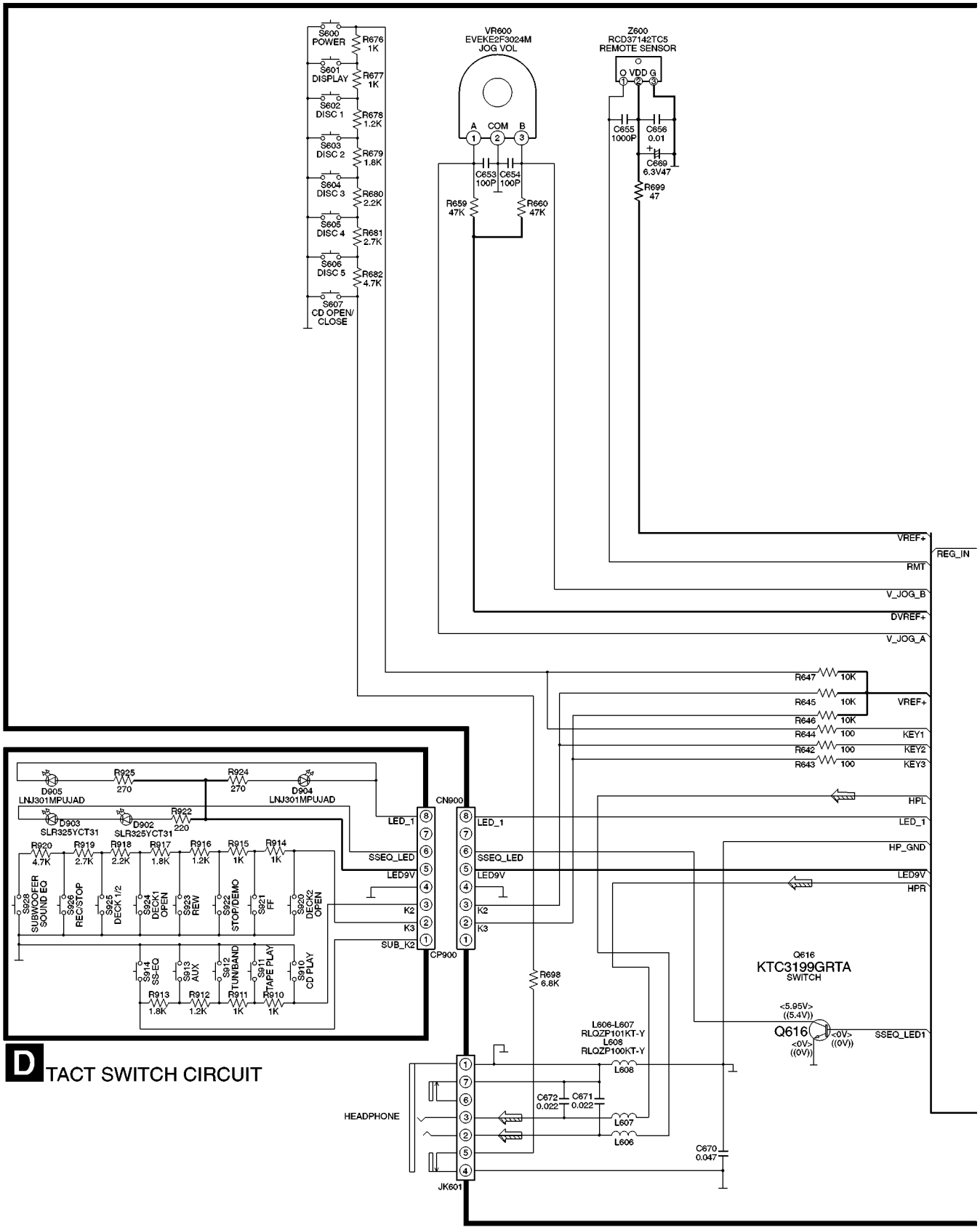
B MAIN CIRCUIT



SCHEMATIC DIAGRAM - 8

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

C PANEL CIRCUIT

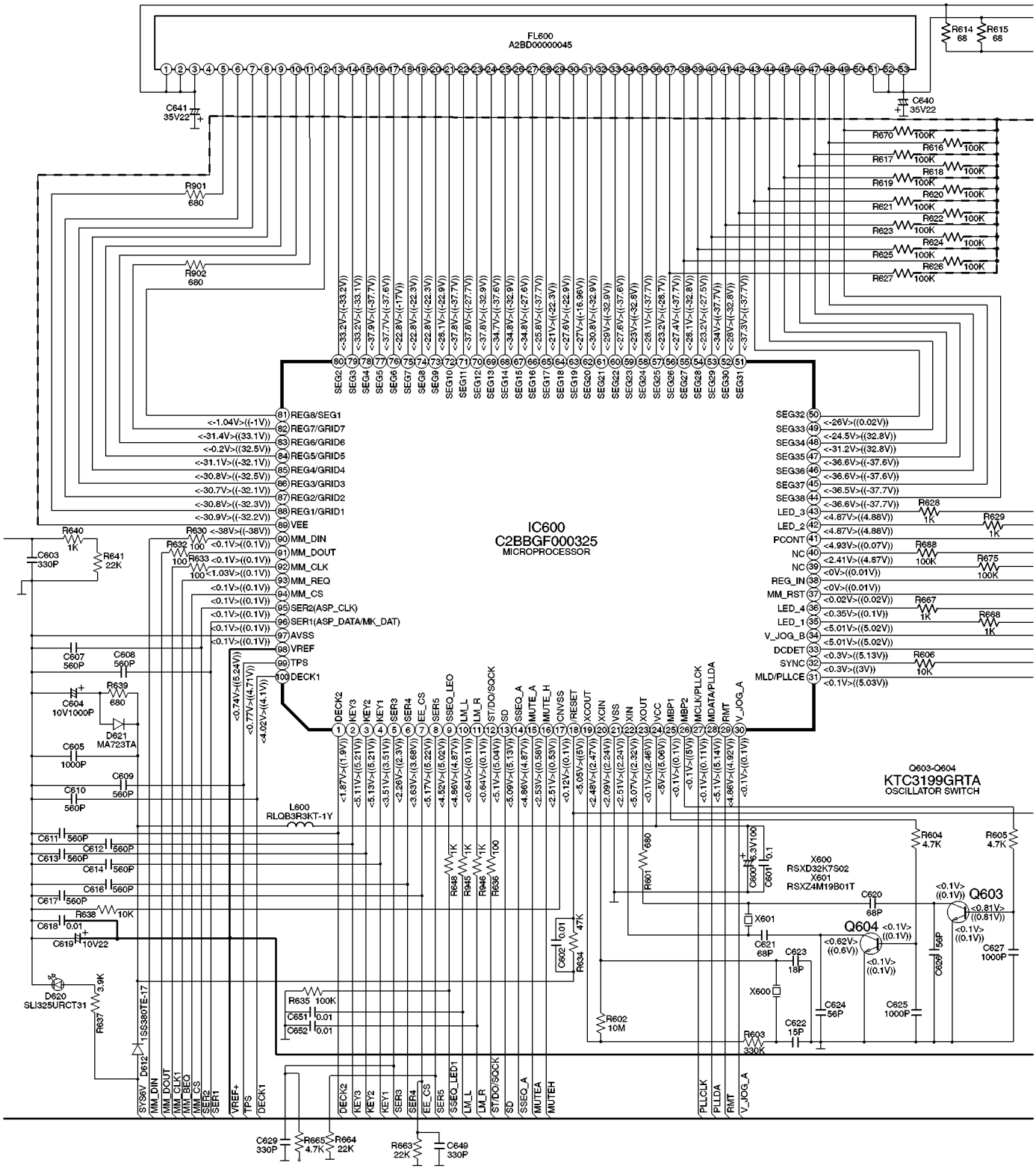


D TACT SWITCH CIRCUIT

SCHEMATIC DIAGRAM - 9

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

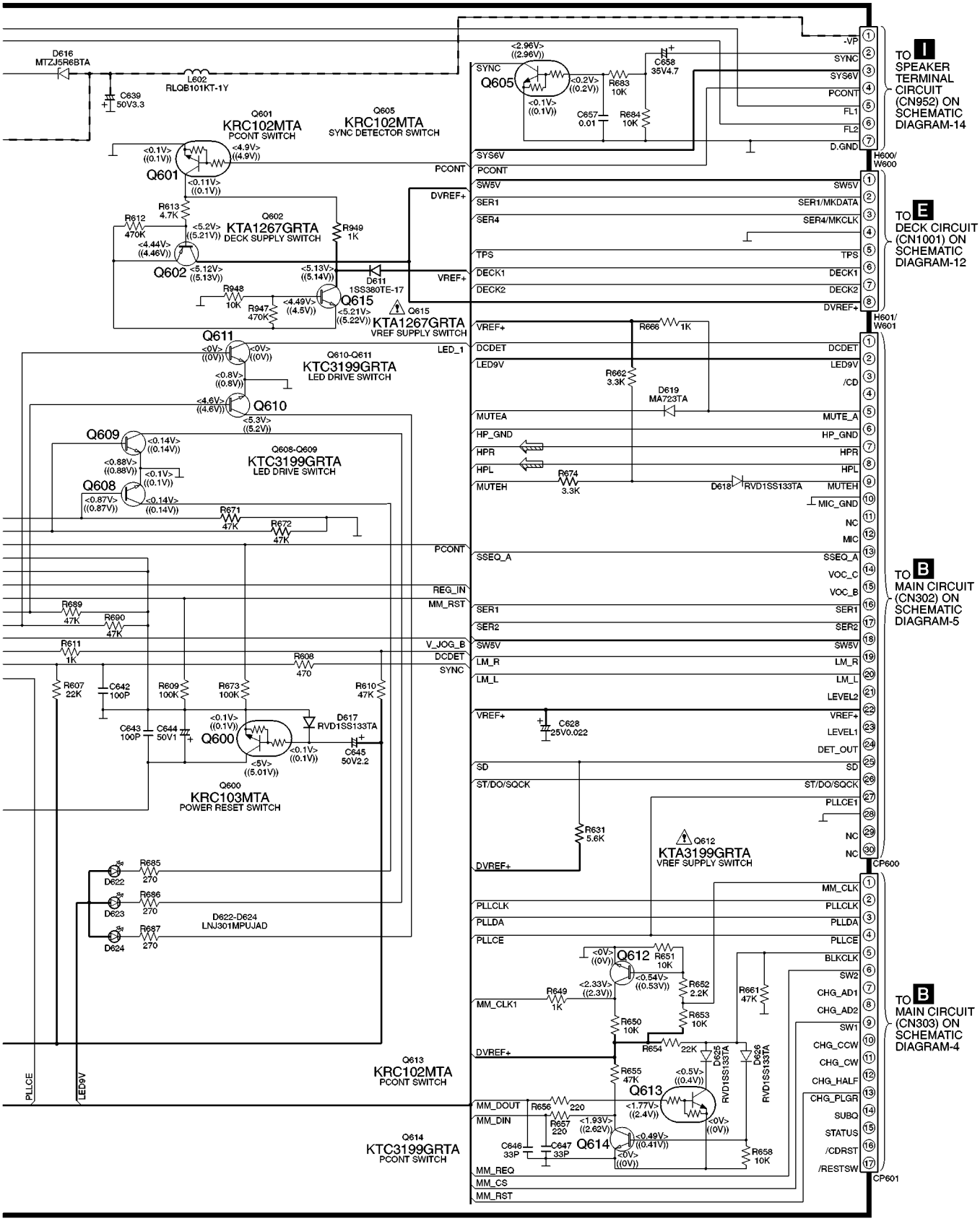
C PANEL CIRCUIT



SCHEMATIC DIAGRAM - 10

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

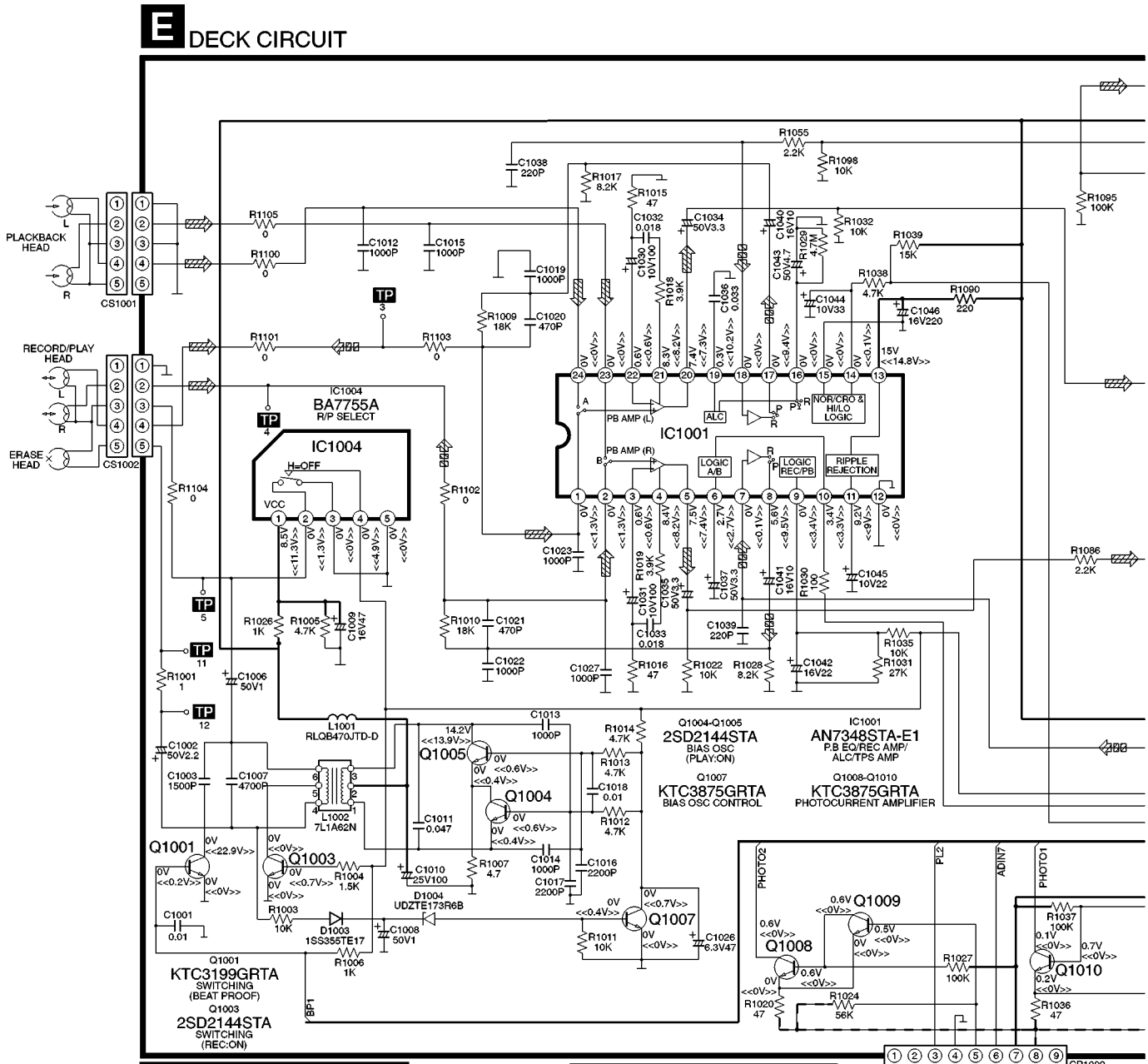
C PANEL CIRCUIT



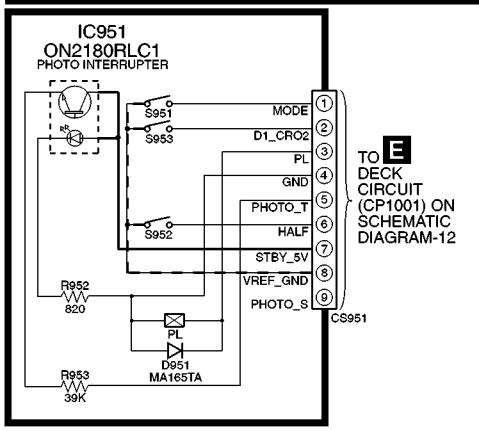
SCHEMATIC DIAGRAM - 11

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

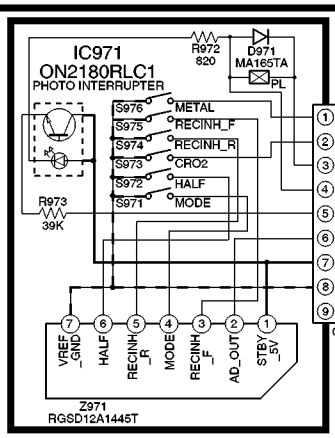
E DECK CIRCUIT



TO G MECHANISM CIRCUIT (CS971) ON SCHEMATIC DIAGRAM-11



TO E DECK CIRCUIT (CP1001) ON SCHEMATIC DIAGRAM-12



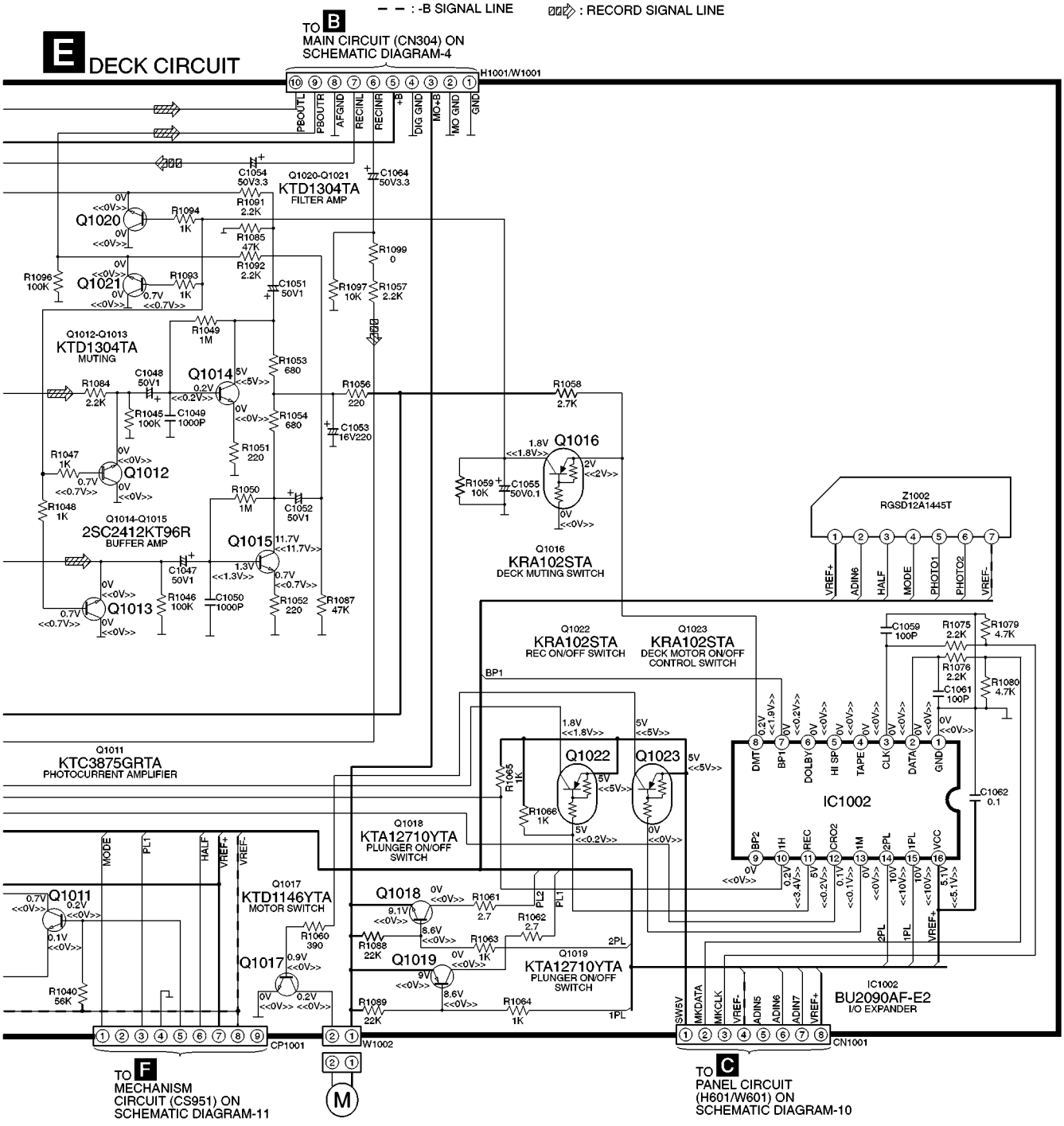
TO E DECK CIRCUIT (CP1002) ON SCHEMATIC DIAGRAM-11

F MECHANISM CIRCUIT (DECK 1)

G MECHANISM CIRCUIT (DECK 2)

SCHEMATIC DIAGRAM - 12

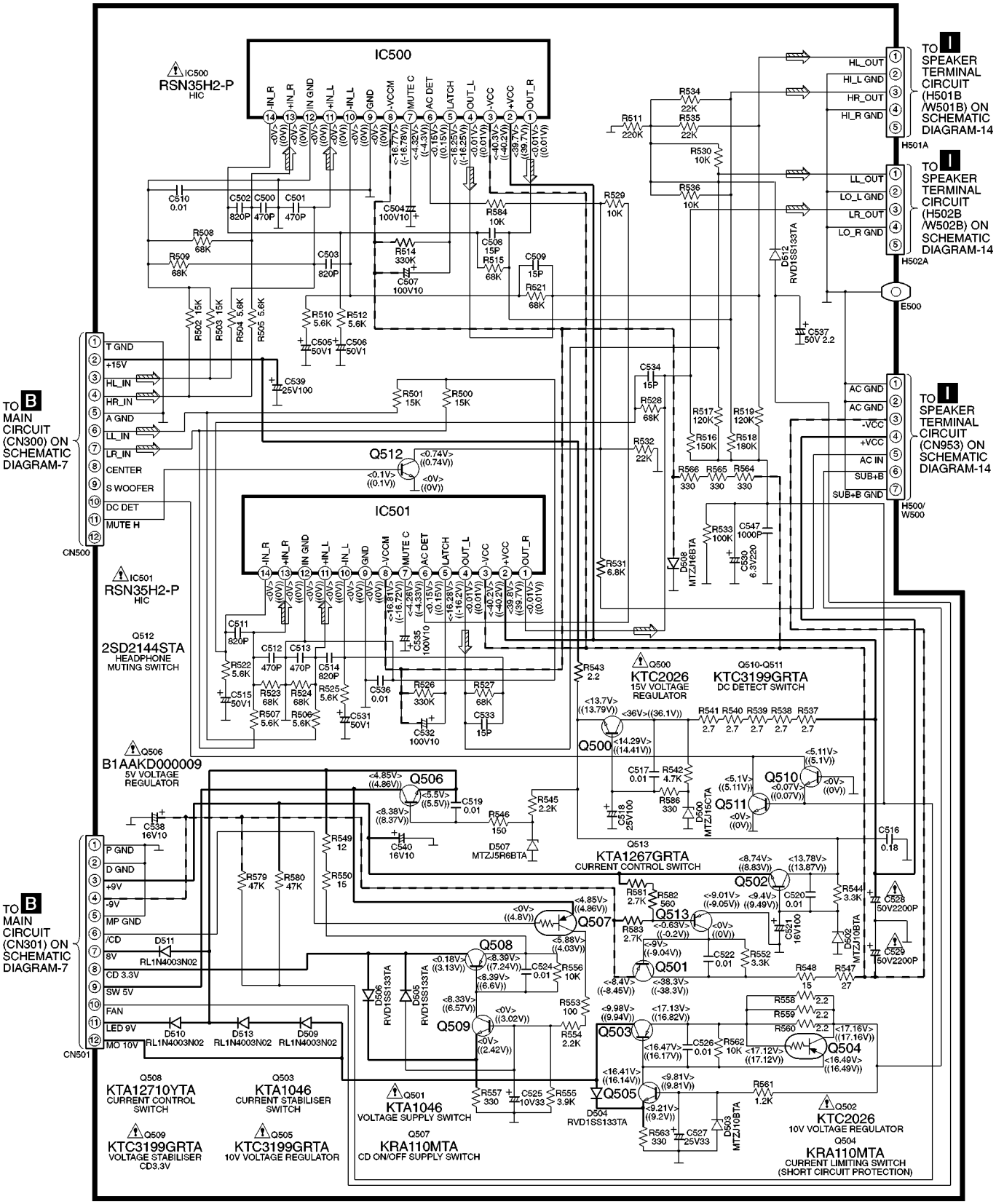
—— : +B SIGNAL LINE
– – : -B SIGNAL LINE
: PLAYBACK SIGNAL LINE
: RECORD SIGNAL LINE



SCHEMATIC DIAGRAM - 13

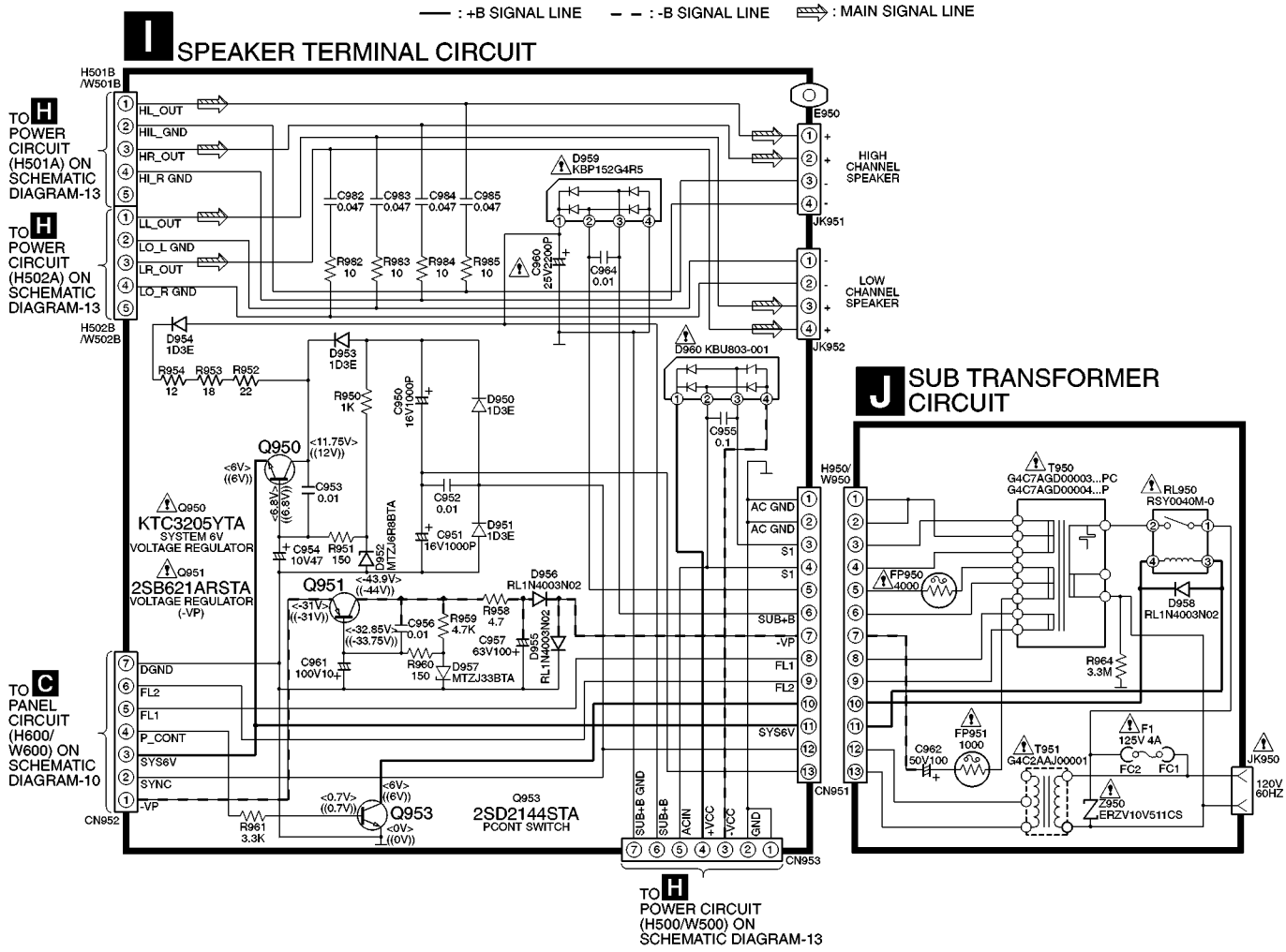
—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

H POWER CIRCUIT



SCHEMATIC DIAGRAM - 14

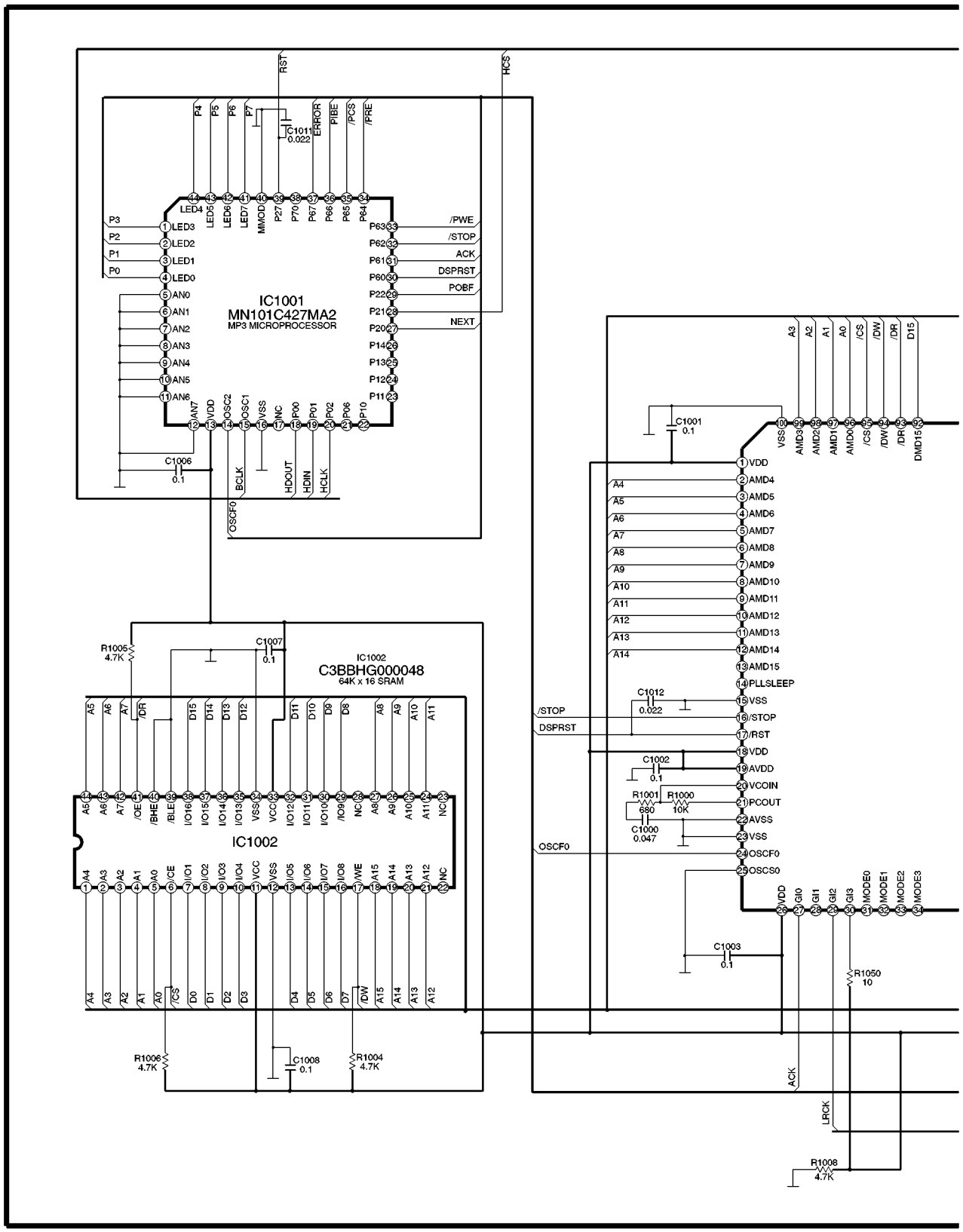
—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM - 15

U MP3 MODULE CIRCUIT

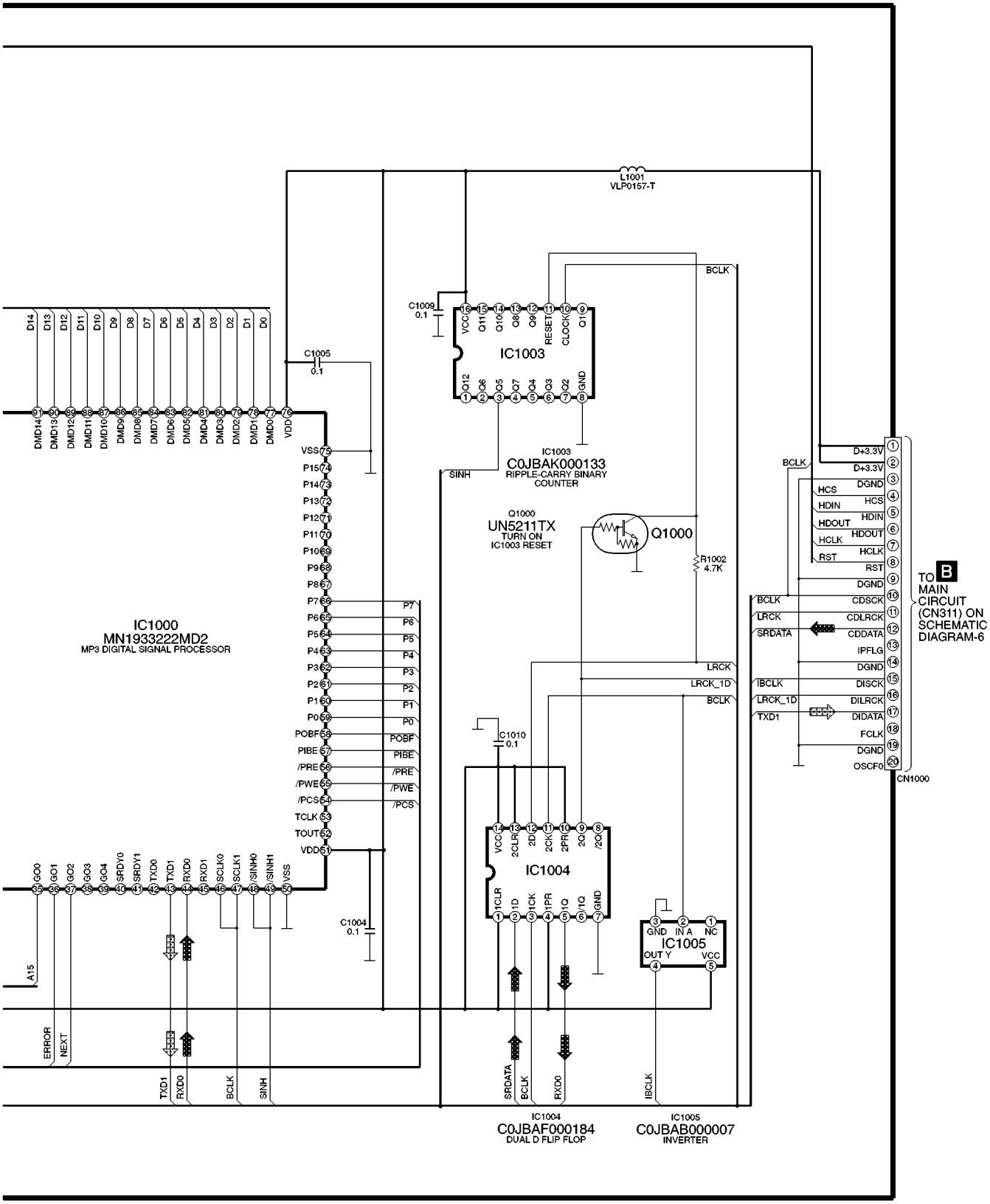
—— : +B SIGNAL LINE



SCHEMATIC DIAGRAM - 16

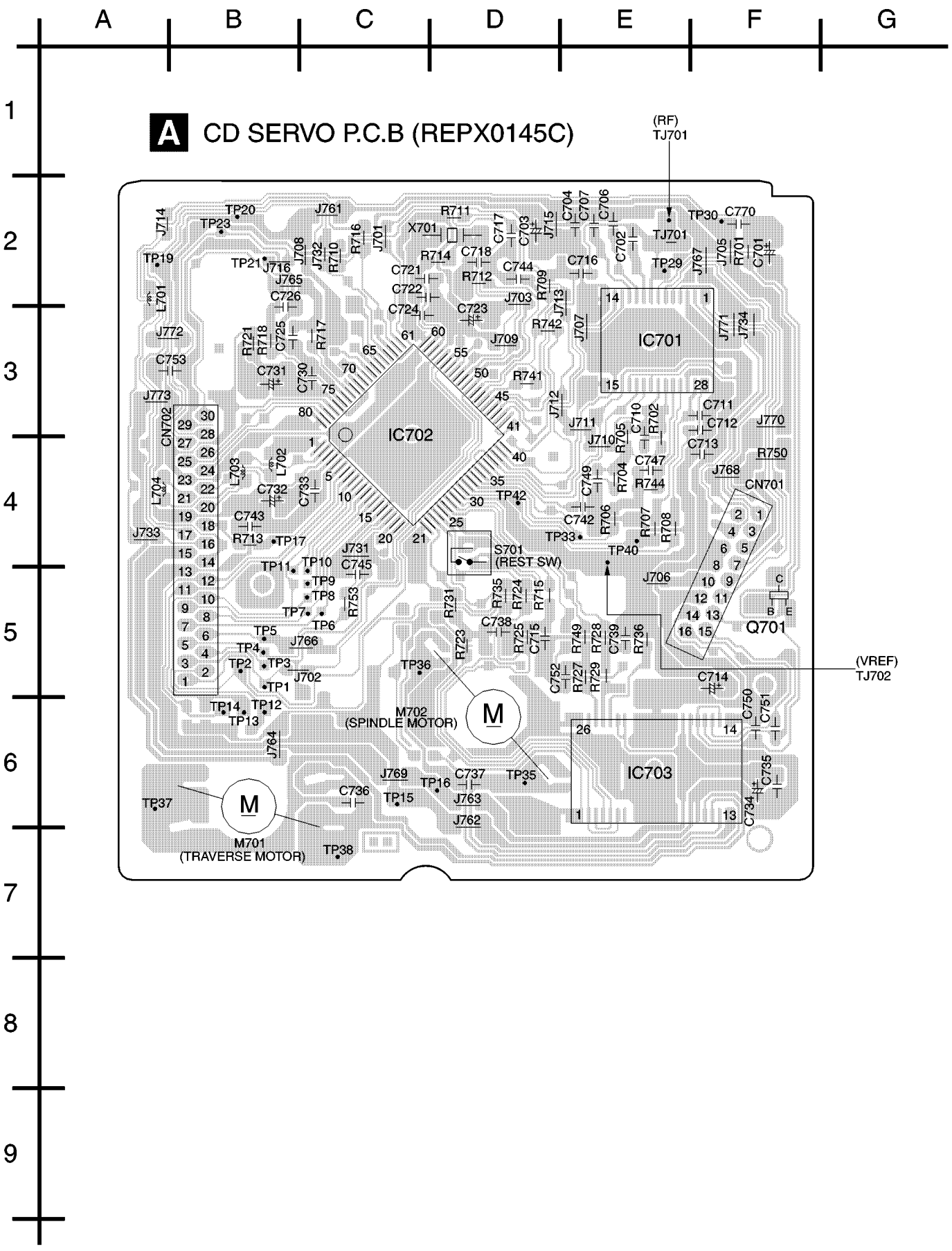
U MP3 MODULE CIRCUIT

—— : +B SIGNAL LINE : MP3 SIGNAL LINE : CD-DA SIGNAL LINE

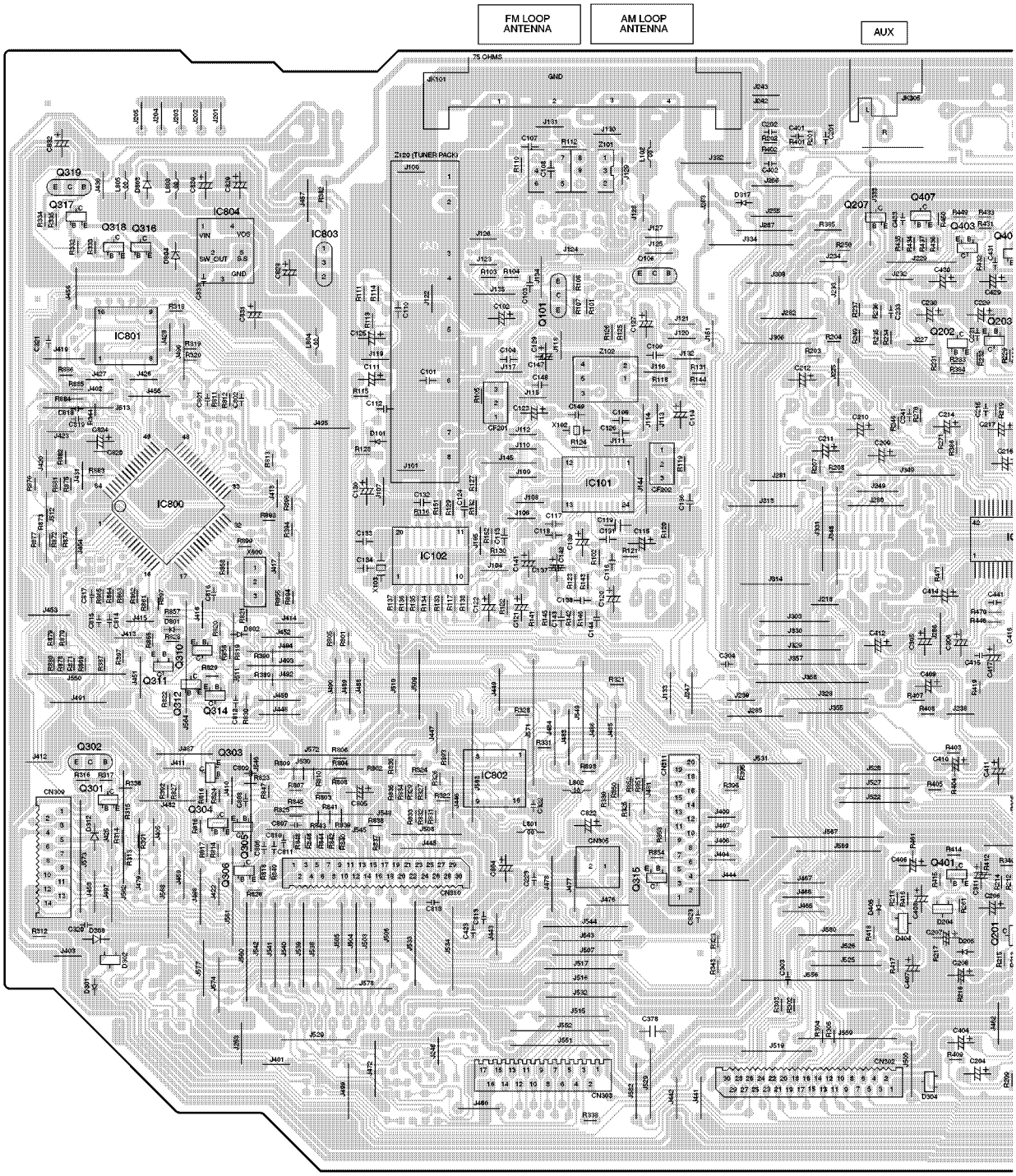


17 Printed Circuit Board

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

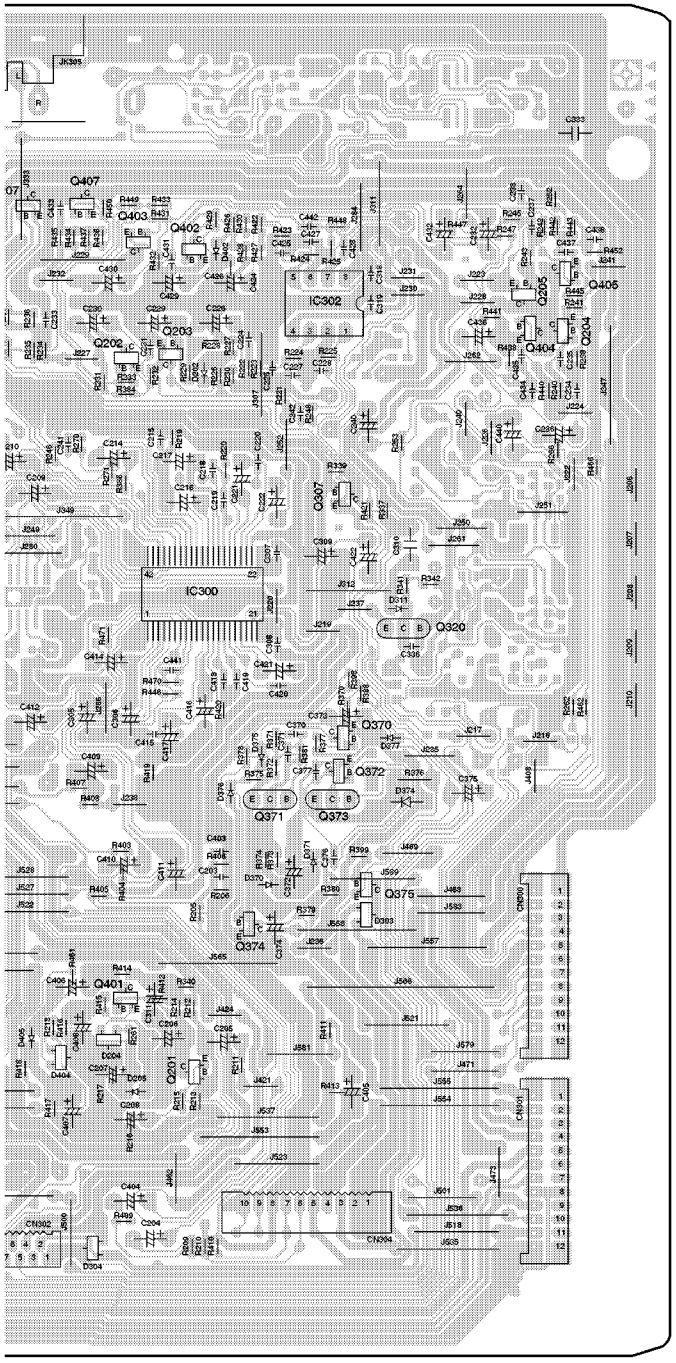


B MAIN / TUNER P.C.B. (REPX0270B)

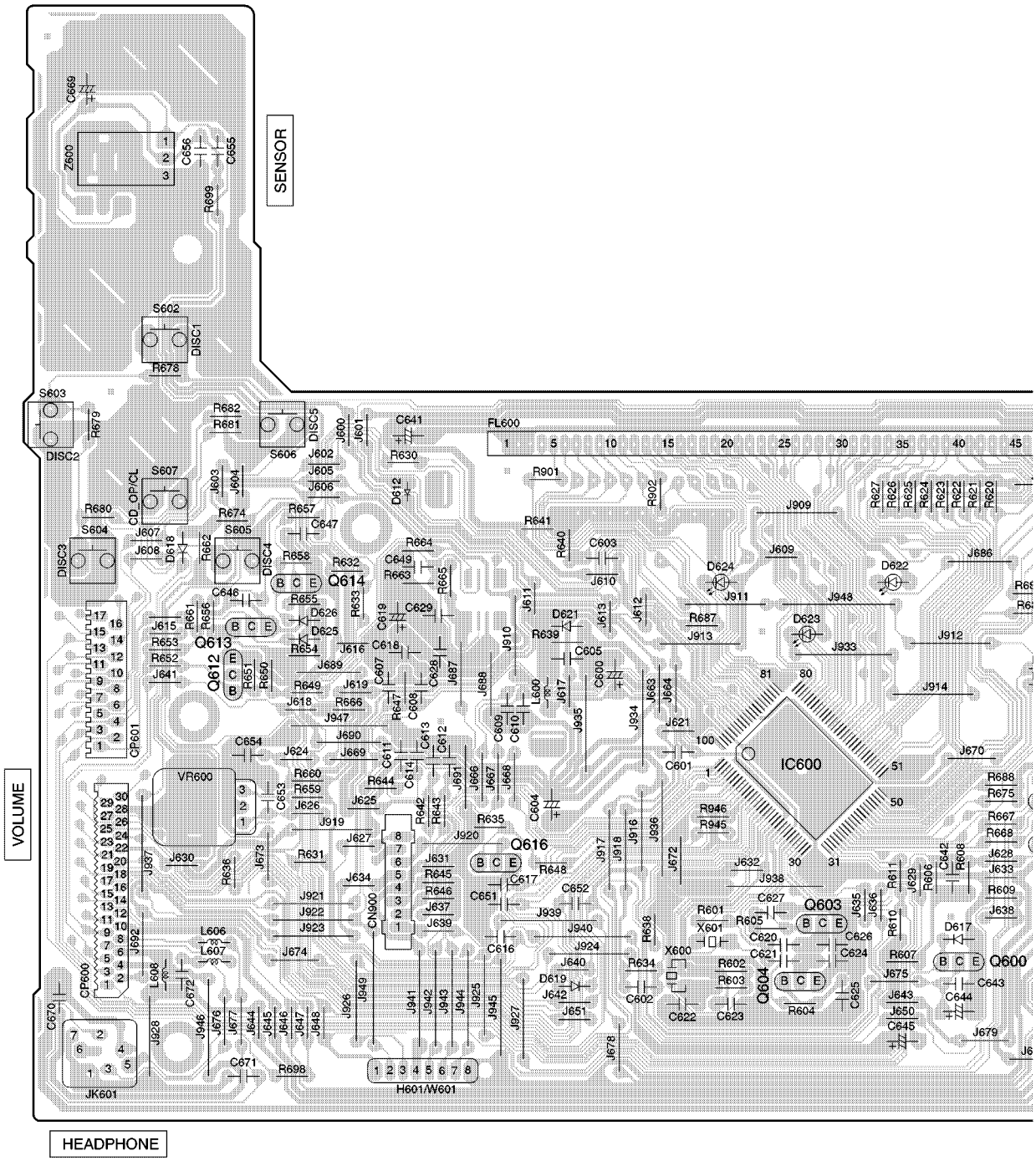


G H I J K L M

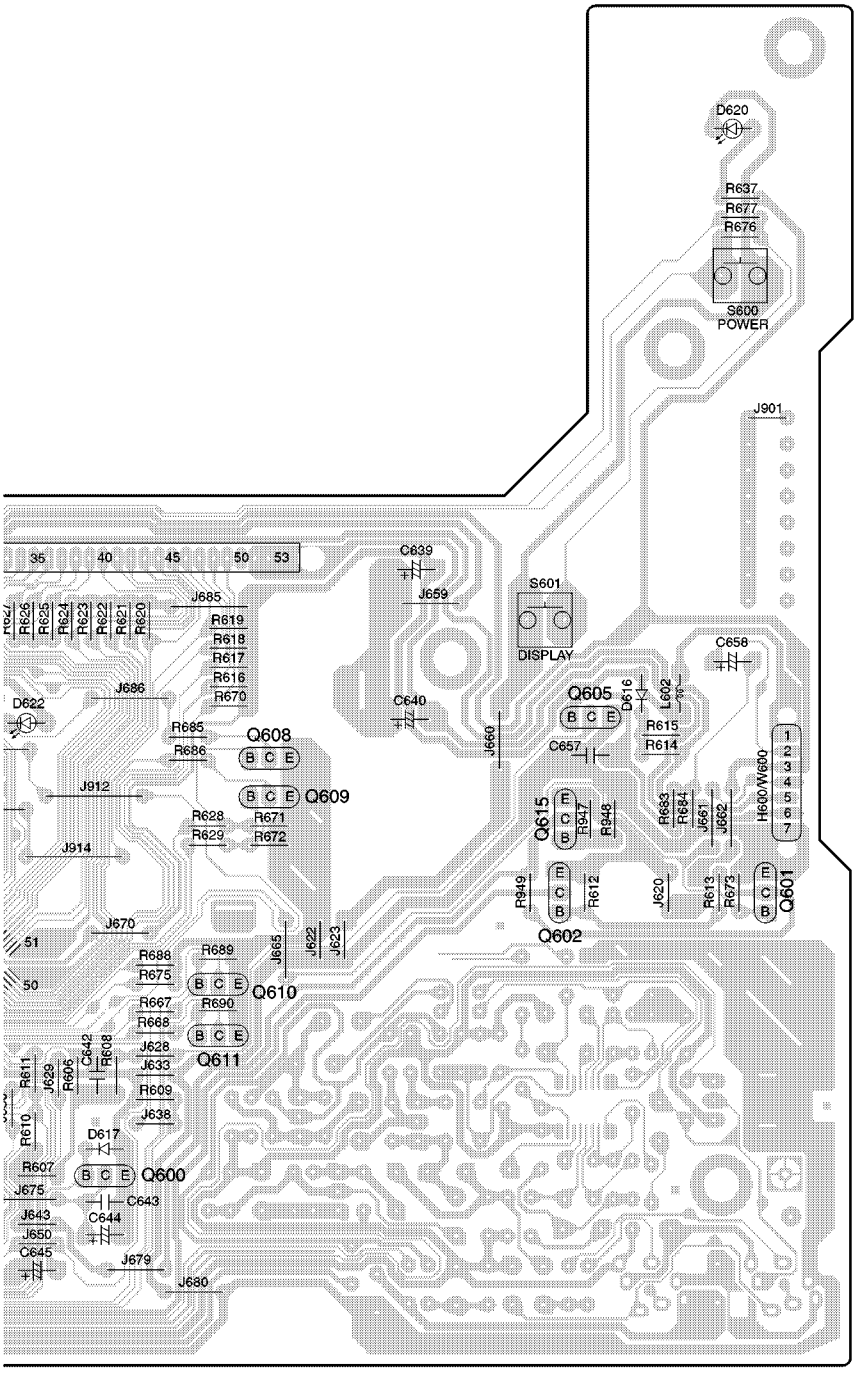
AUX


IC300
IC302
Q320
Q370
Q371
Q372
Q373
Q374
Q375
Q401
Q402
Q403
Q404
Q405
Q407

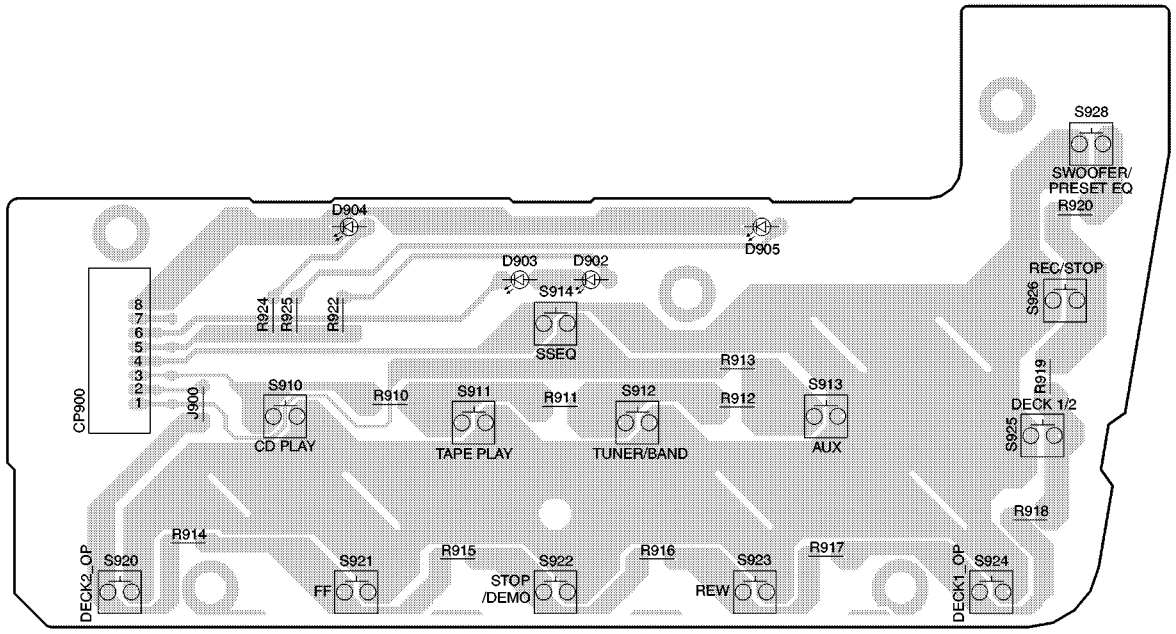
C PANEL P.C.B. (REPX0303A)



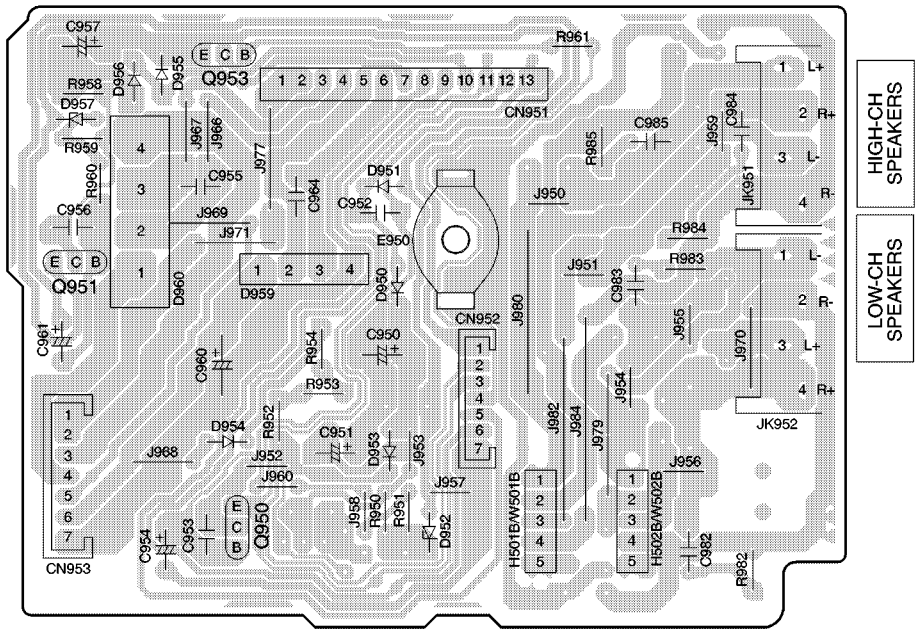
G H I J K L M


D620
R637
R677
R676
S600
POWER
J901
S601
DISPLAY
C639
J659
C658
C640
J660
Q605
D616
L602
R615
R614
C657
Q608
R685
R686
Q609
J912
R628
R629
R671
R672
J914
Q615
R947
R948
R633
R684
J661
J662
H600/W600
Q601
R949
R612
J620
R613
R673
Q602
J670
J665
J622
J623
R688
R675
R689
R690
R667
R668
Q610
Q611
J628
J633
R609
J638
C642
R608
R611
J629
R606
R610
D617
R607
Q600
C643
C644
J675
J643
J650
C645
J679
J680
R626
R625
R624
R623
R622
R621
R620
J685
R619
R618
R617
R616
R670
J686
D622
35
40
45
50
53
51
50

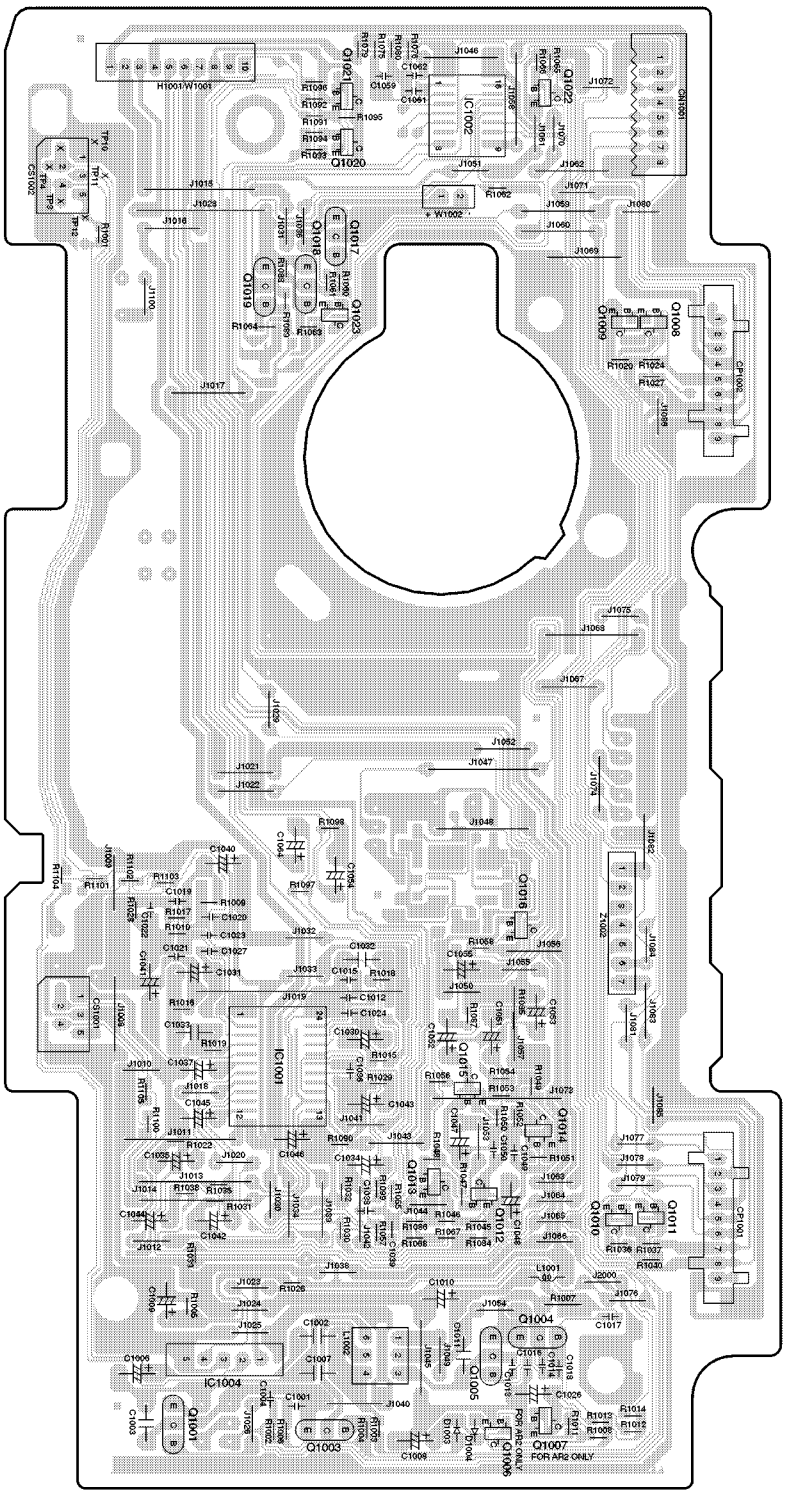
D TACT SWITCH P.C.B. (REPX0303A)



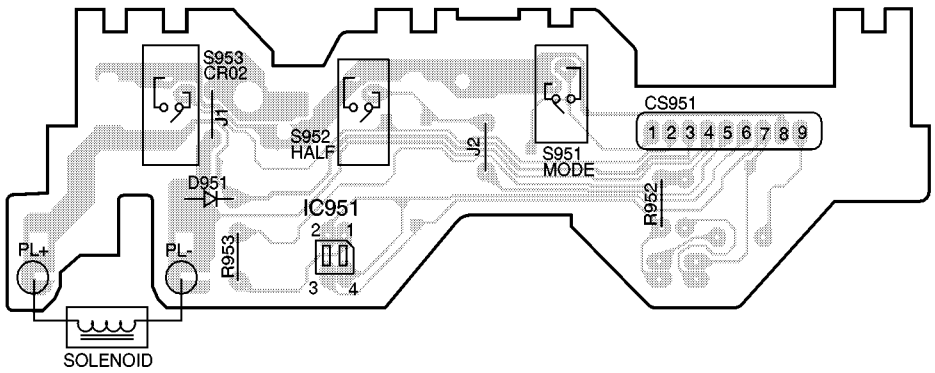
I SPEAKER TERMINAL P.C.B. (REPX0272C)



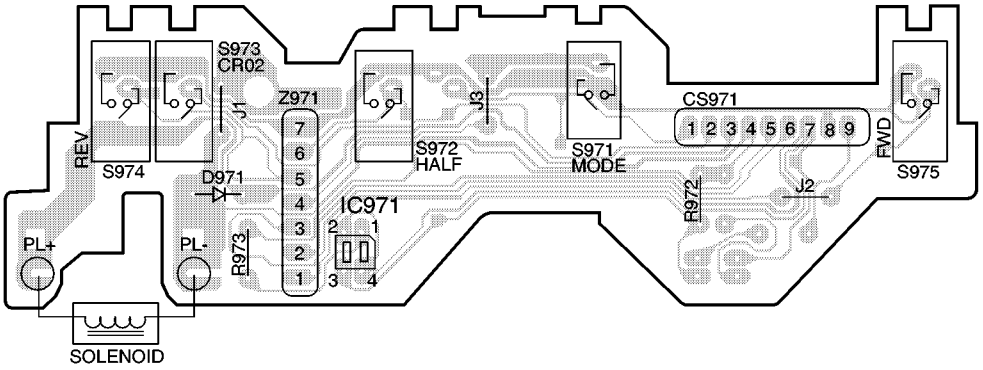
E DECK P.C.B. (REPX0282A)



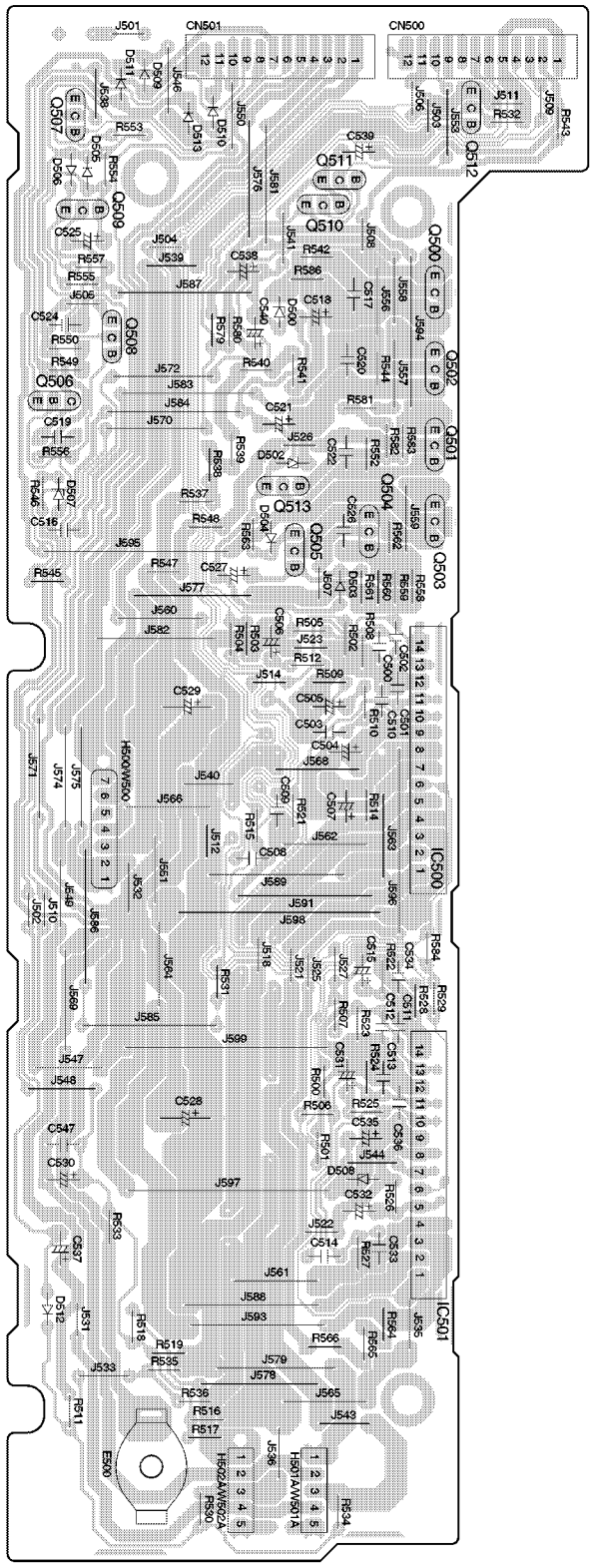
F MECHANISM (DECK1) P.C.B (REPX0108H)



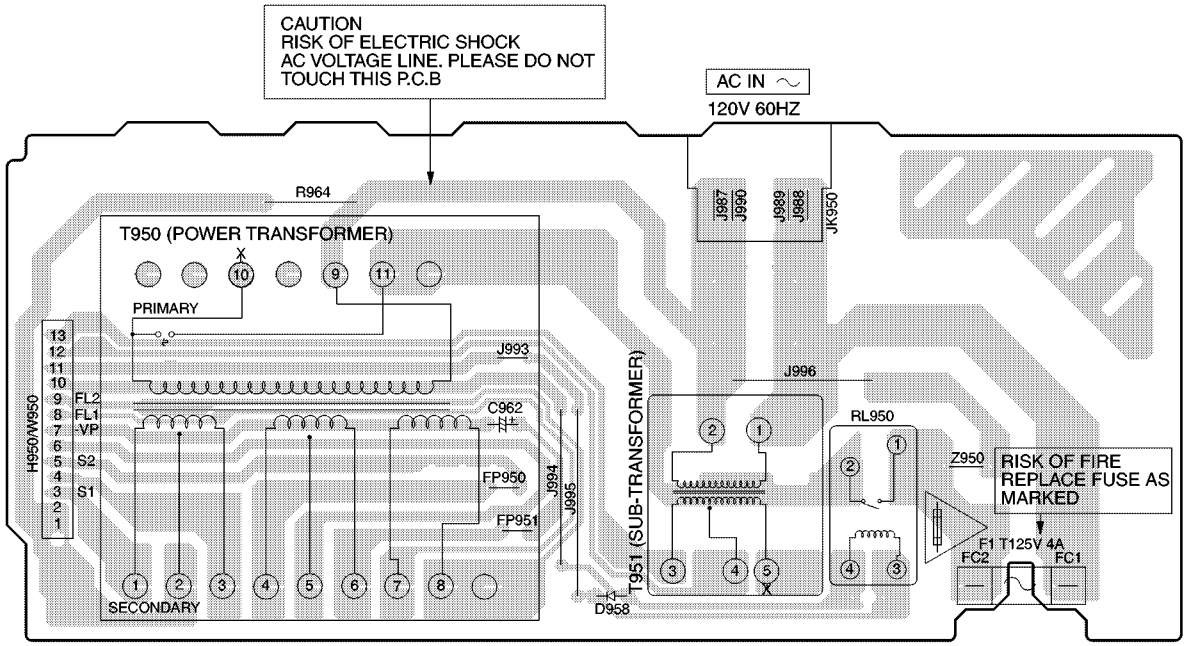
G MECHANISM (DECK2) P.C.B (REPX0108F)



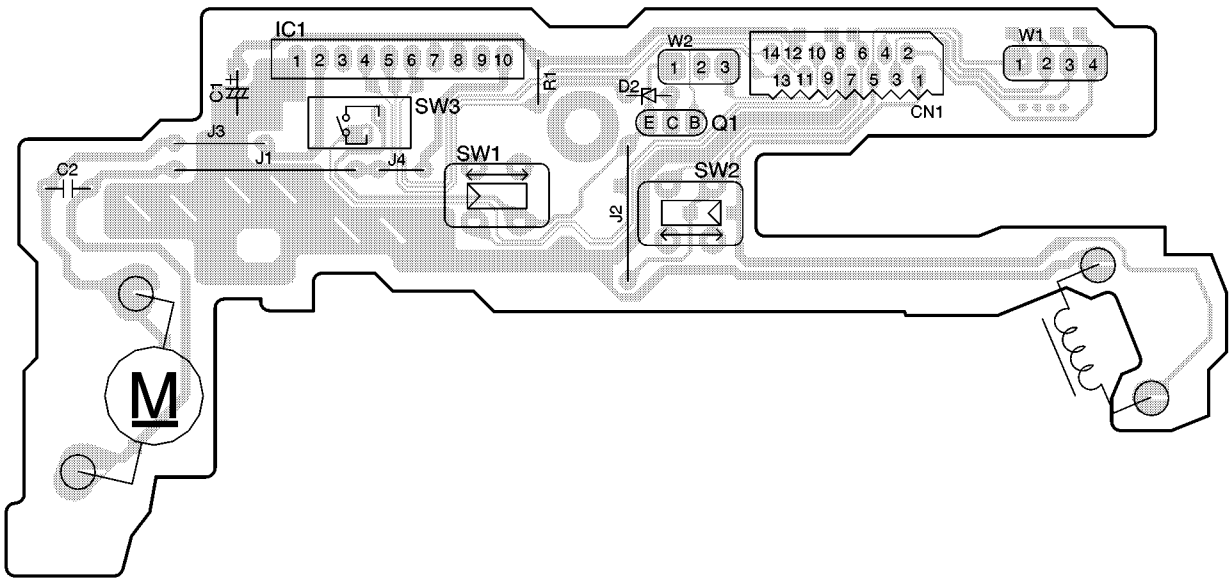
H POWER P.C.B (REPX0272C)



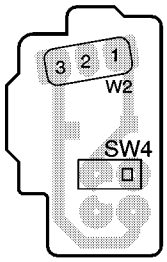
J SUB-TRANSFORMER P.C.B. (REPX0273D...P) (REPX0273C...PC)



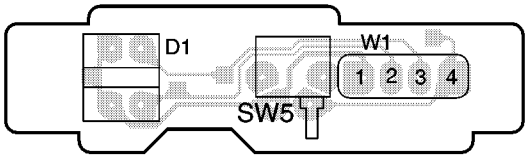
K CD LOADING P.C.B (REP2578A-N)



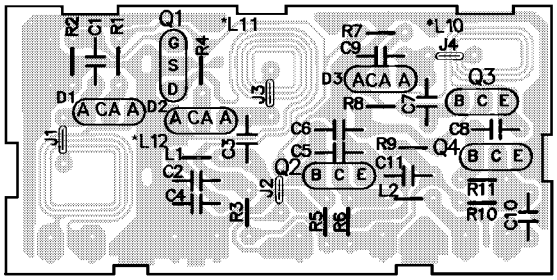
L CD DETECT P.C.B (REP2578A-N)



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



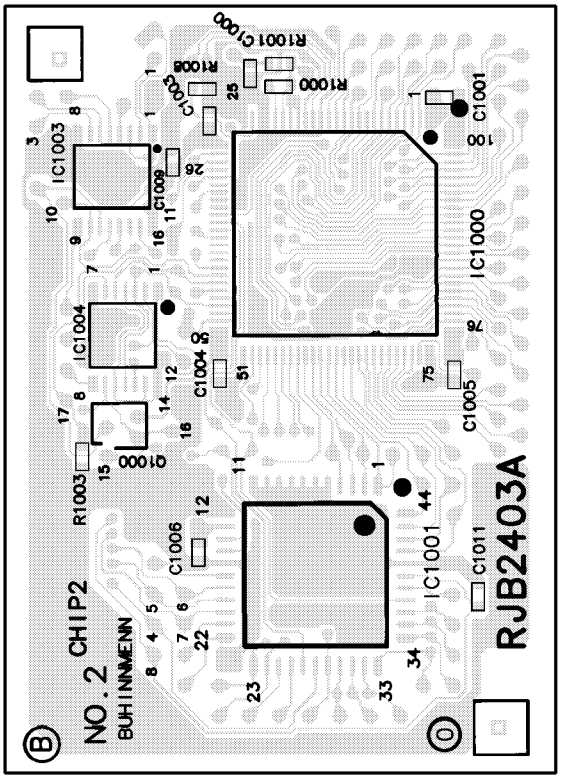
N TUNER PACK P.C.B (REP1999B)



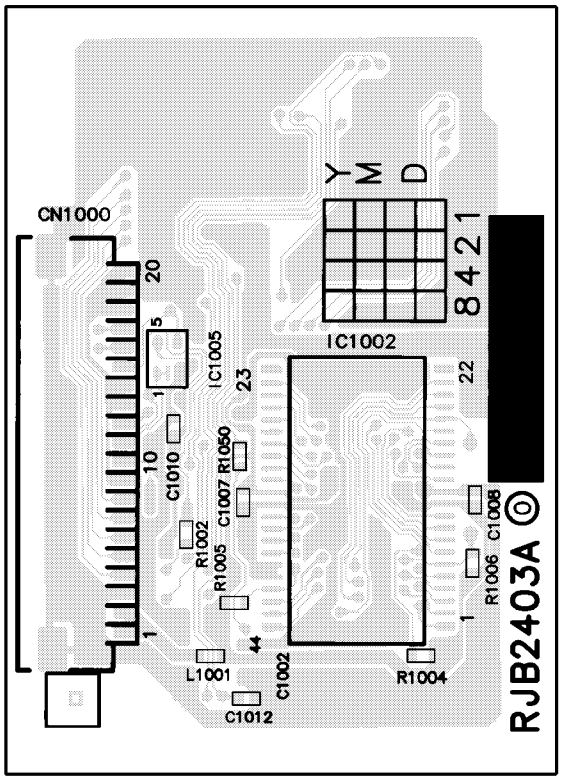
A B C D E F G

1 2 3 4 5 6 7 8 9

U MP3 Module P.C.B (REP3122A-T)

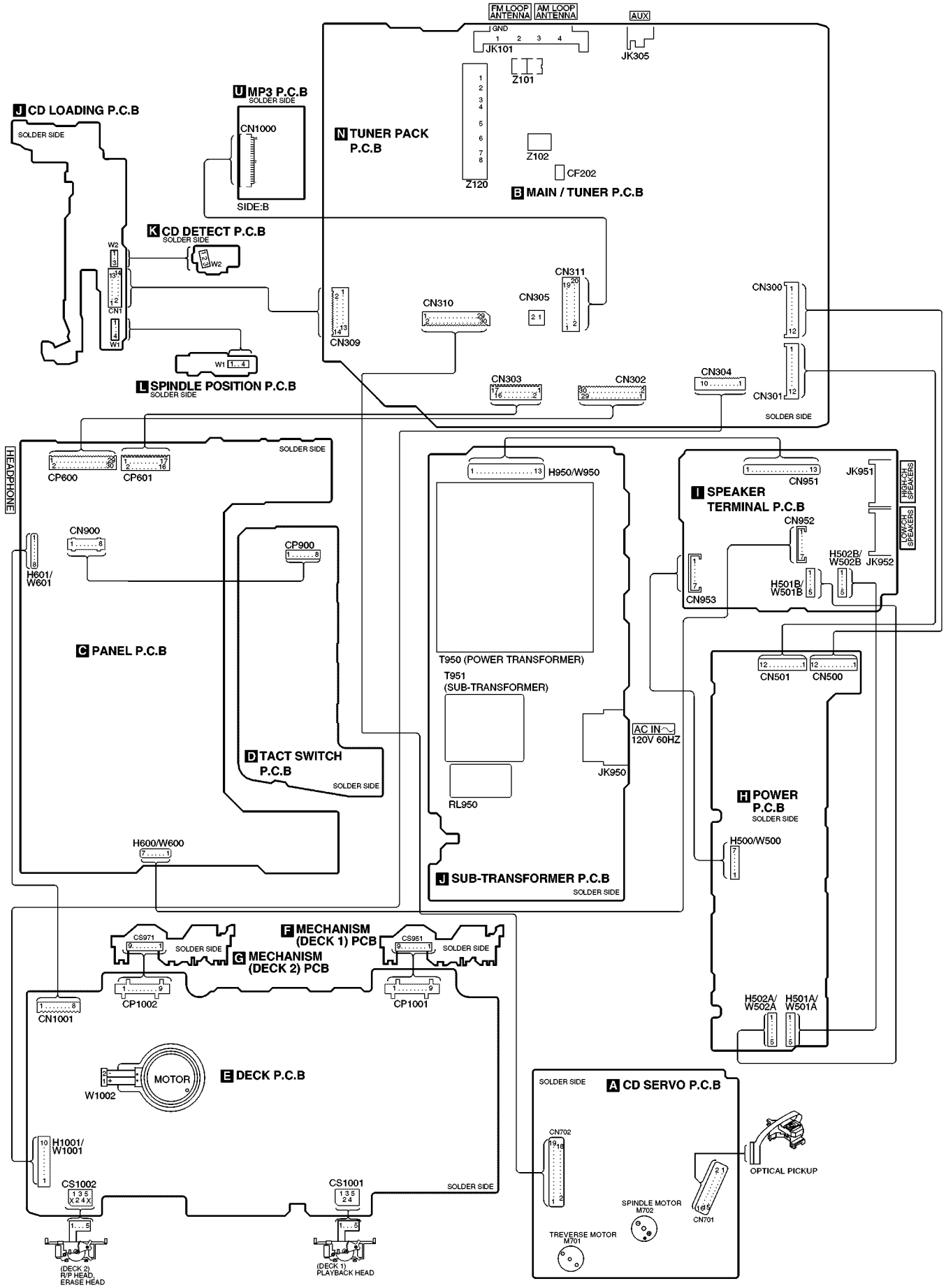


SIDE:A

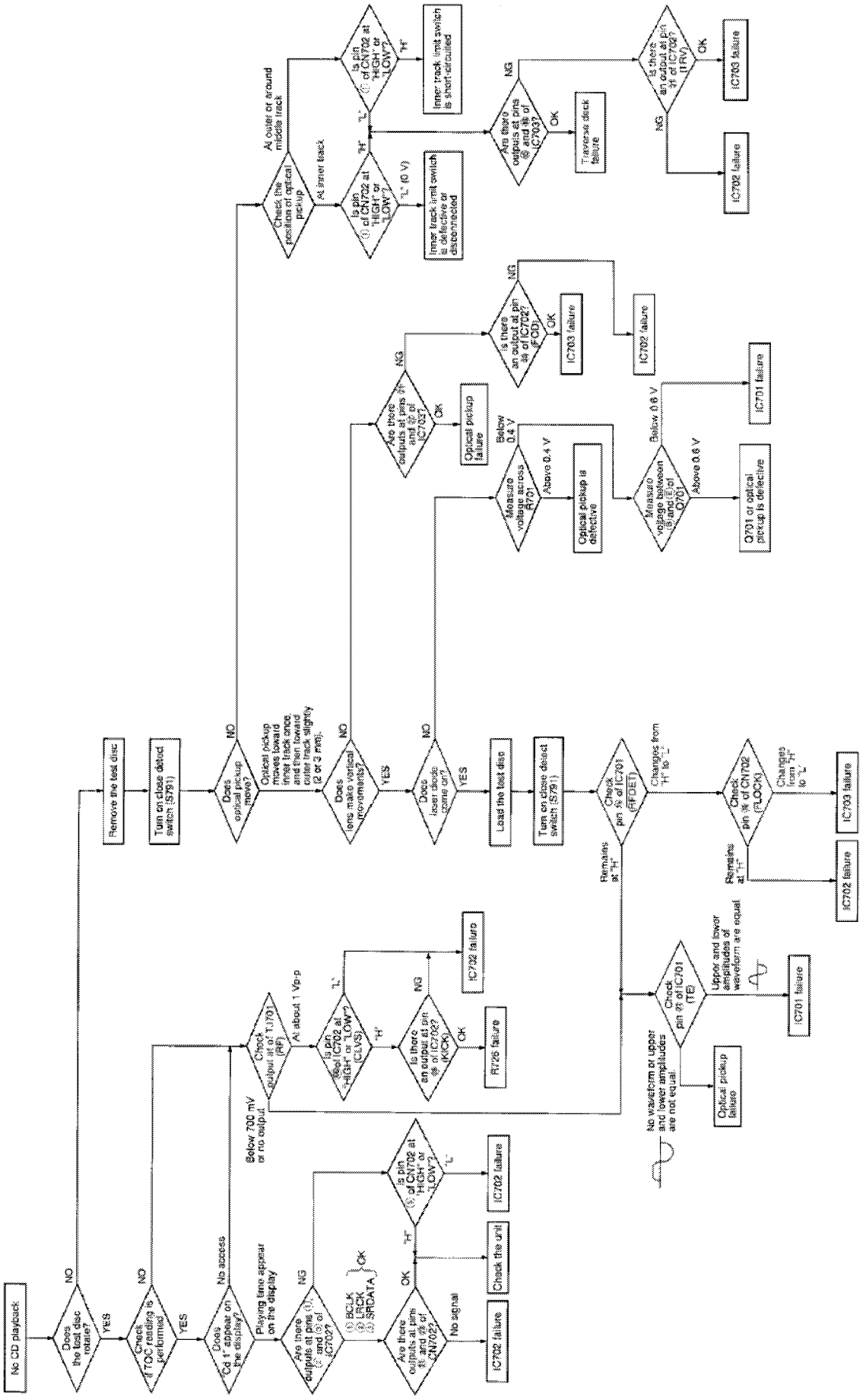


SIDE:B

18 Wiring Connection Diagram



19 Troubleshooting Guide



20 Parts Location and Replacement Parts List

Notes:

- Important safety notice:

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

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

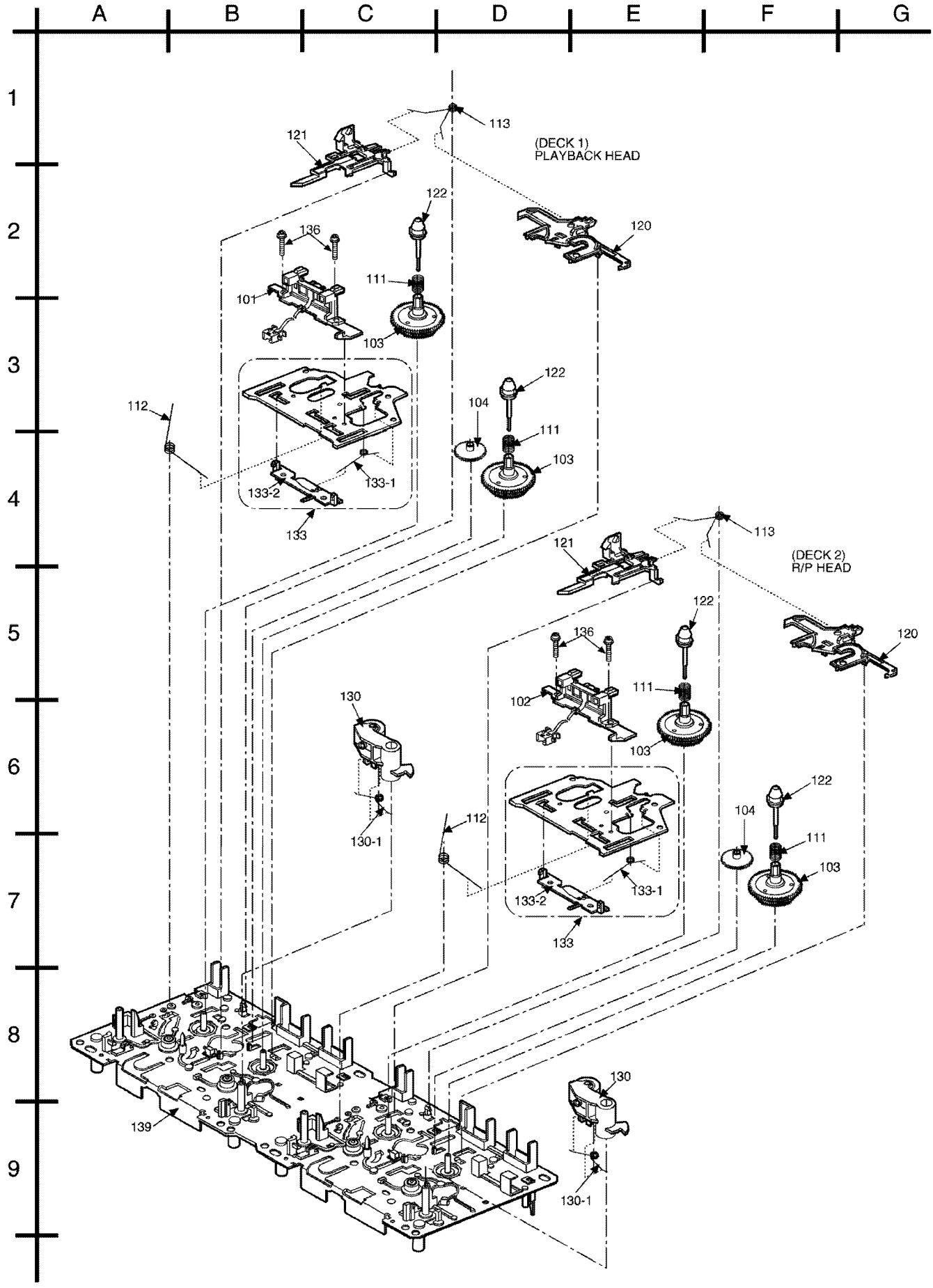
  When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.
- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to teh cover page for area or colour)

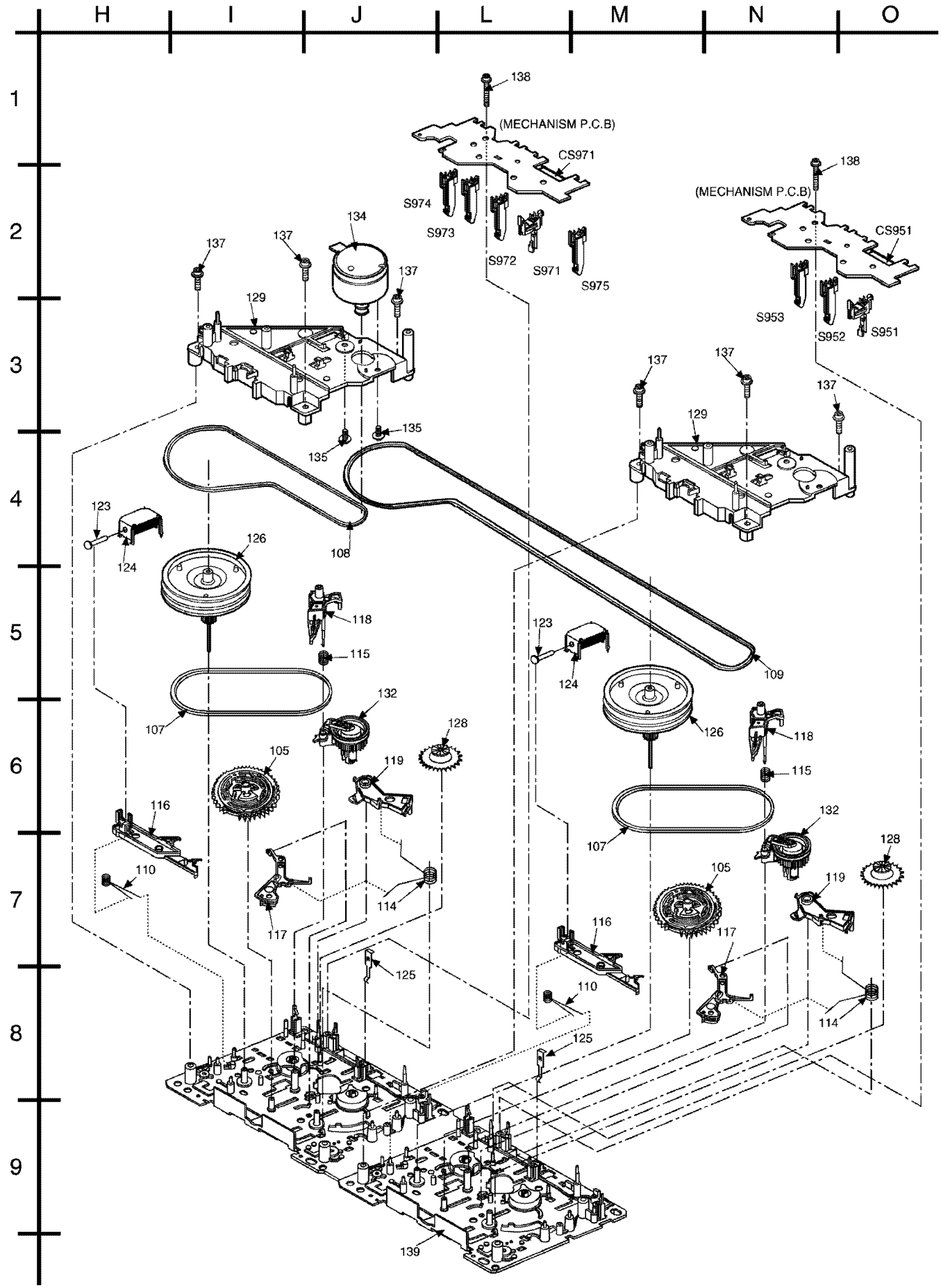
  Parts without these indications can be used for all areas.
- Warning: This product uses a laser diode. Refer to caution statements on "Precaution of Laser Diode".
- Capacitor values are in microfarads (μF) unless specified otherwise, P= Pico-farads (pF), F= Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).
- The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availabilityis dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
- [M] Indicates in the Remarks columns indicates parts supplied by **MESA.**
- The "(SF)" mark denotes the standard part.
- Remote Control Unit: Supply period for three years from terminal of production.
- Reference for O/I book languages are as follows:

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

20.1. Deck Mechanism (RAA4501-1S)

20.1.1. Deck Mechanism Parts Location



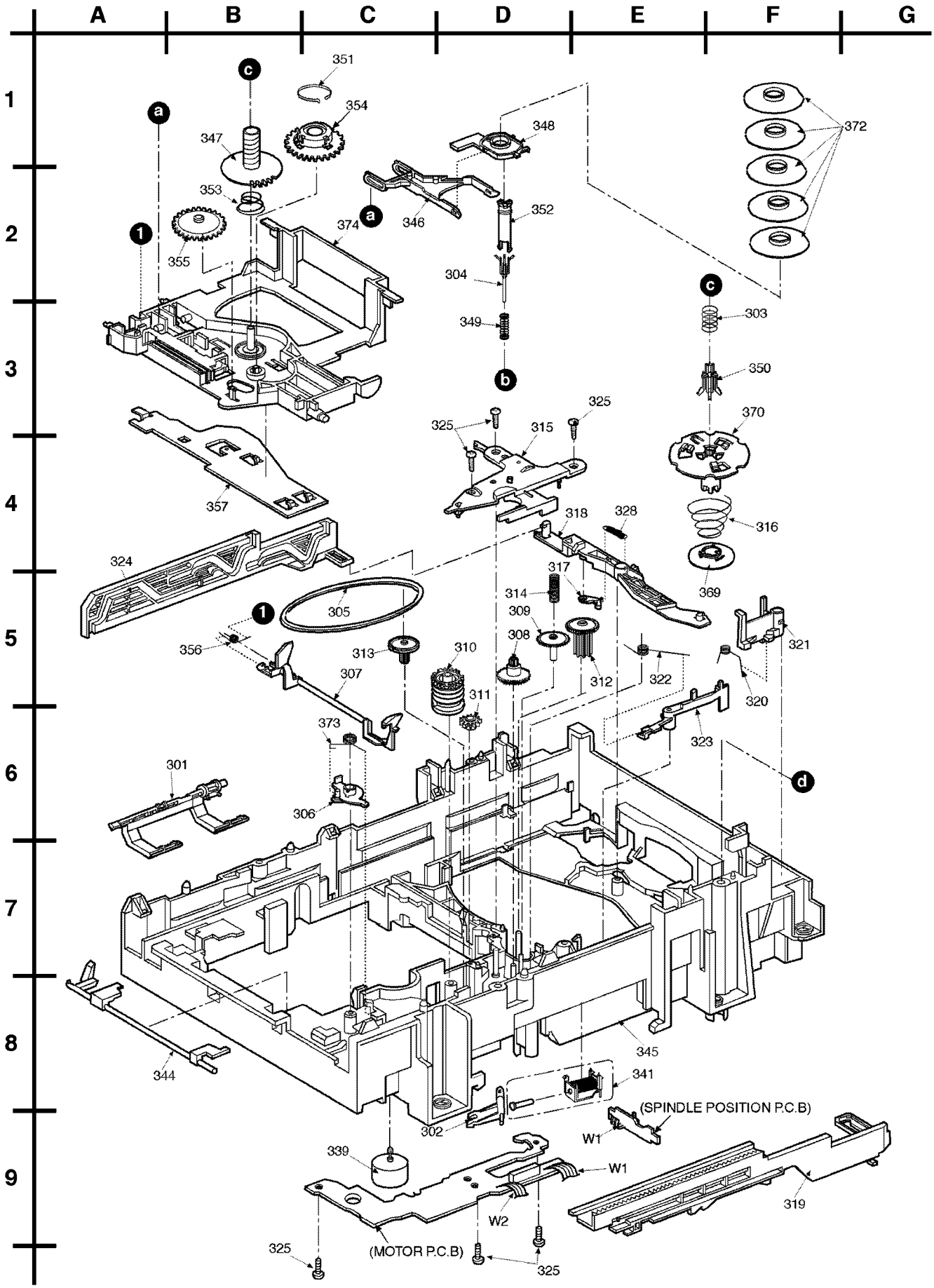

H
I
J
L
M
N
O
1
2
3
4
5
6
7
8
9
138
(MECHANISM P.C.B)
CS971
S974
S973
S972
S971
S975
138
(MECHANISM P.C.B)
CS951
S953
S952
S951
137
137
137
134
129
135
135
108
137
137
137
129
123
124
126
118
115
107
132
128
105
119
116
110
114
117
125
123
124
126
118
115
107
132
128
105
119
116
110
114
117
125
109
139

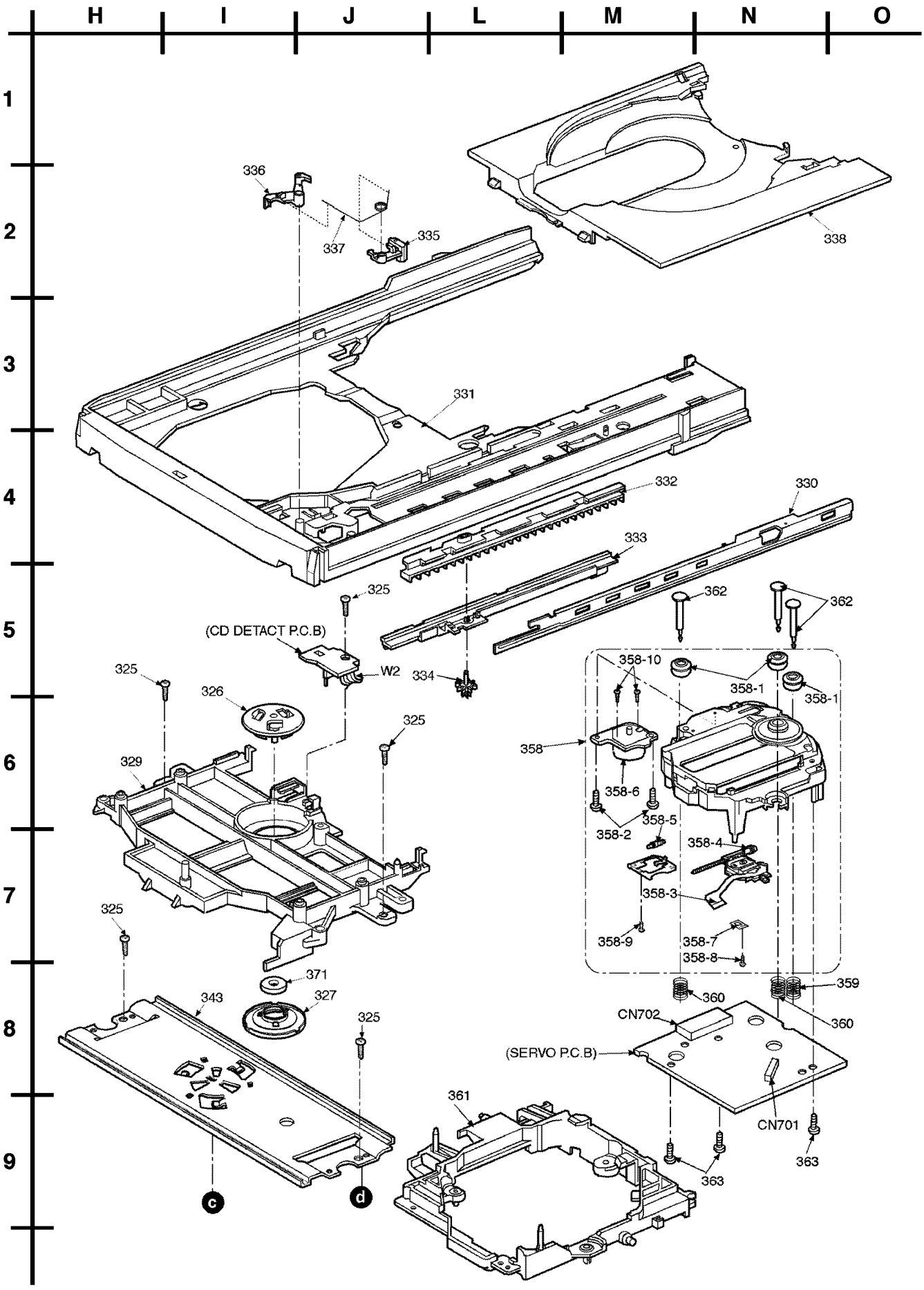
20.1.2. Deck Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	RED0069	HEAD BLOCK UNIT	[M]
102	RED0070	R/P HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026	MAIN GEAR	[M]
107	RDV0033-4	WINDING BELT	[M]
108	RDV0064	CAPSTAN BELT	[M]
109	RDV0071	MAIN BELT B	[M]
110	RMB0312	TRIGGER LEVER SPRING	[M]
111	RMB0400	REEL SPRING	[M]
112	RMB0403	HEAB PANEL SPRING	[M]
113	RMB0404	BRAKE ROD SPRING	[M]
114	RMB0406	FR LEVER SPRING	[M]
115	RMB0408	THRUST SPRING	[M]
116	RML0370	TRIGGER LEVER	[M]
117	RML0371	FR LEVER	[M]
118	RML0372	WINDING LEVER	[M]
119	RML0374	EJECT LEVER	[M]
120	RMM0131	BRAKE ROD	[M]
121	RMM0133	EJECT ROD	[M]
122	RMQ0519	REEL HUB	[M]
123	RMS0398	MOVING CORE	[M]
124	RSJ0003	PLUNGER ASS'Y	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0049	FLYWHEEL F ASS'Y	[M]
128	RXG0040	FF RELAY GEAR ASS'Y	[M]
129	RMK0283A-J	SUB-CHASSIS	[M]
130	RXL0124	PINCH ROLLER 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	REM0088	CAP MOTOR ASS'Y	[M]
135	RHD26022	MOTOR SCREW	[M]
136	XTW2+5L	HEAD BLOCK UNIT SCRE	[M]
137	XTW26+10S	SUB-CHASSIS SCREW	[M]
138	XYC2+JF17	PCB EARTH SCREW	[M]
139	RFKJAA4501-S	CHASSIS ASS'Y	[M]

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

20.2.1. CD Loading Mechanism Parts Location



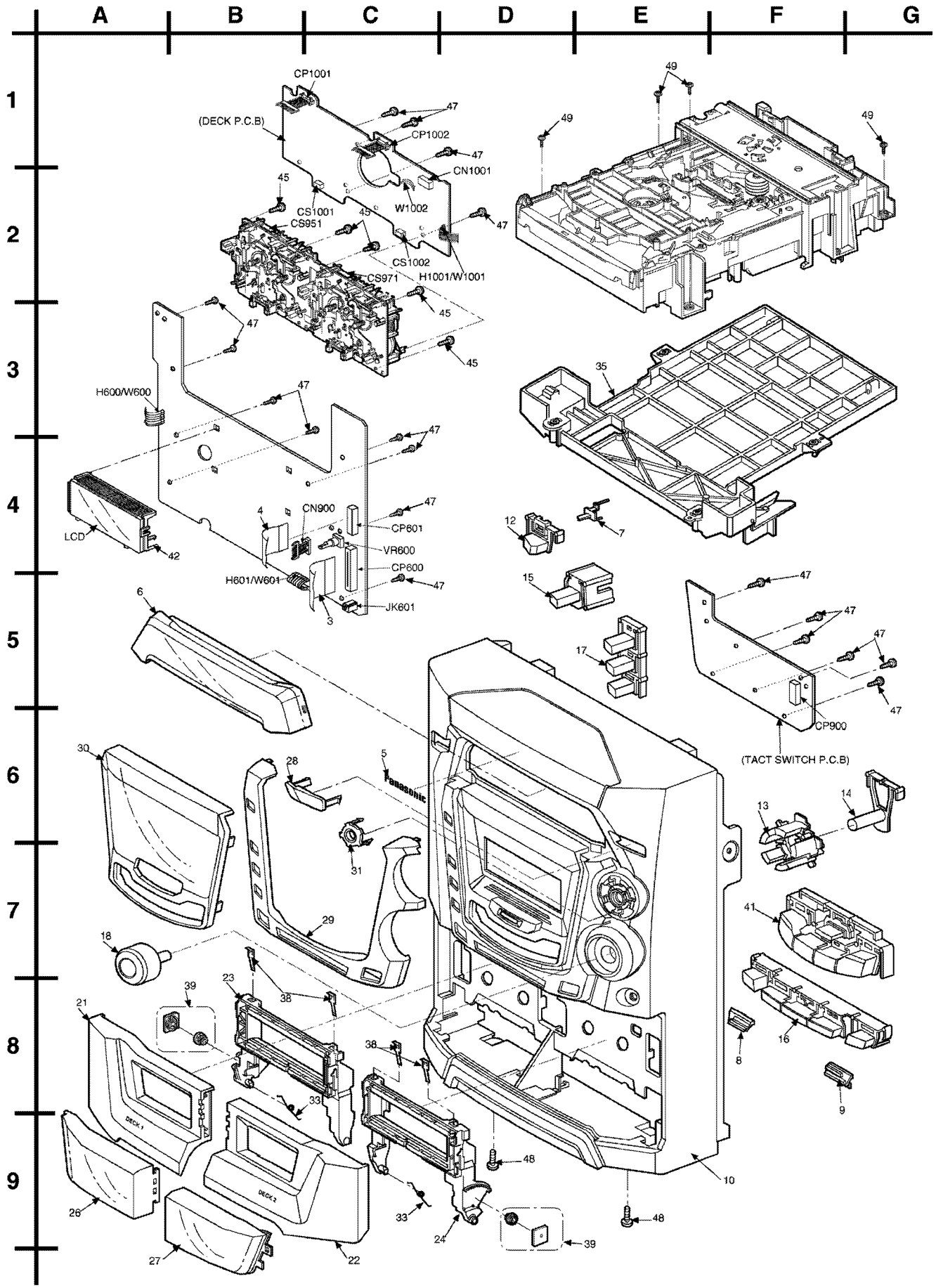

H
I
J
L
M
N
O
1
2
3
4
5
6
7
8
9
336
337
335
338
331
332
330
333
325
362
362
(CD DETACT P.C.B)
W2
334
325
326
325
329
358-10
358-1
358-1
358
358-6
358-5
358-2
358-4
358-3
358-9
358-7
358-8
325
371
343
327
325
360
359
360
CN702
(SERVO P.C.B)
CN701
361
363
363
c
d

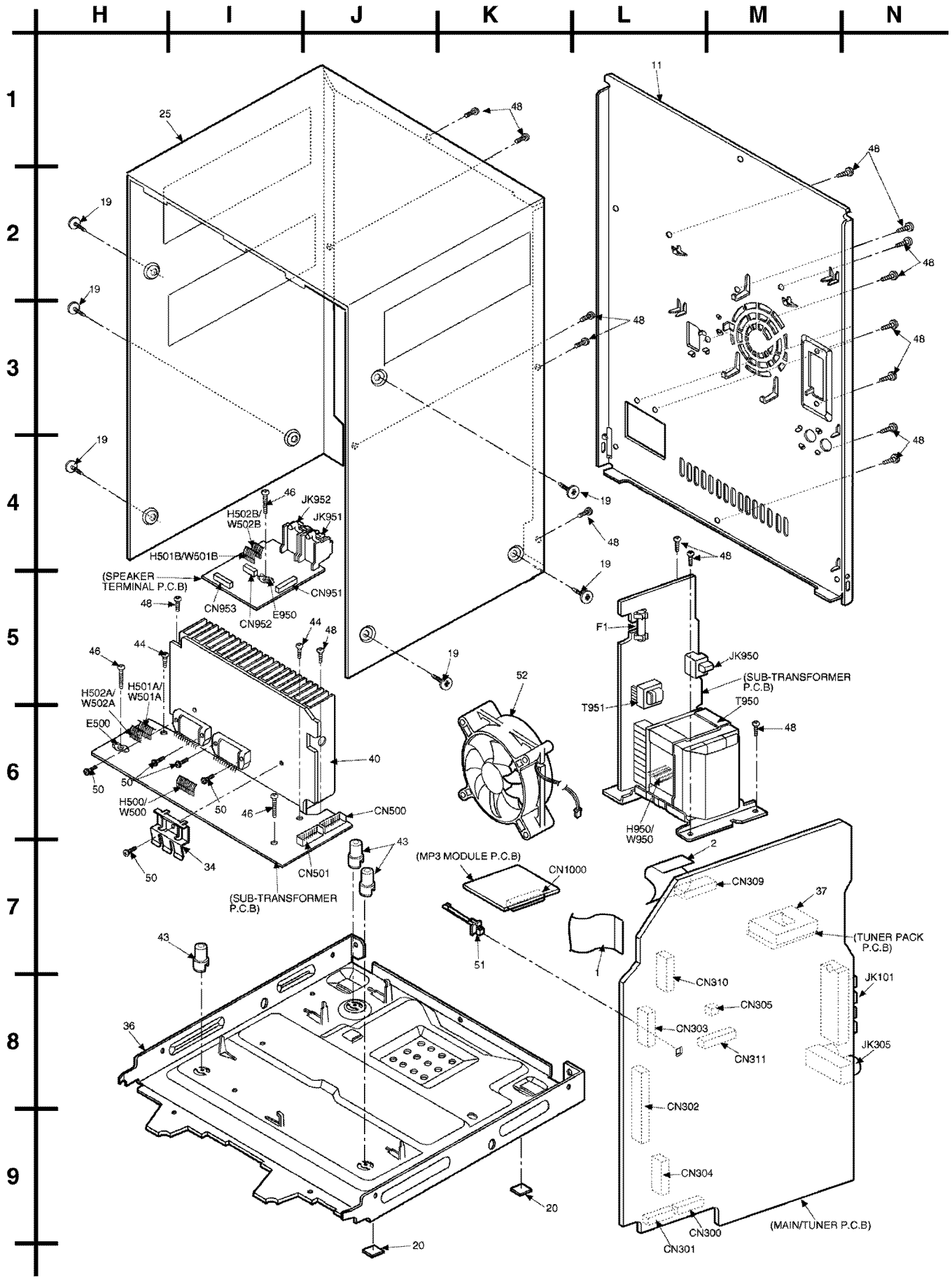
20.2.2. CD Loading Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RML0517	TIMING LEVER	[M]
302	RML0516	PLUNGER LEVER	[M]
303	RMB0551	UPPER SPINDLE SPRING	[M]
304	RMQ0744	LOWER HOOK	[M]
305	RDV0056	BELT	[M]
306	RML0525	FRONT LOCK LEVER	[M]
307	RML0526	DISC LEVER	[M]
308	RDG0424	DRIVE GEAR	[M]
309	RDG0425	CHANGE GEAR	[M]
310	RDG0427	TRAVERSE CAM GEAR	[M]
311	RDG0428	TRAVERSE RELAY GEAR	[M]
312	RDG0426	UP/DOWN GEAR	[M]
313	RDG0429	PULLEY GEAR	[M]
314	RMB0549-1	CHANGE GEAR SPRING	[M]
315	RMQ0748	PITCH PLATE	[M]
316	RMB0553	PUSH SPRING	[M]
317	RML0530	ASSIST LEVER	[M]
318	RML0518	CONNECTION LEVER	[M]
319	RMM0201	SLIDE PLATE 1	[M]
320	RME0258	REAR LOCK SPRING	[M]
321	RML0521	REAR LOCK	[M]
322	RME0257	TRAY LOCK LEVER SPRI	[M]
323	RML0520	TRAY LOCK	[M]
324	RMM0202	SLIDE PLATE 2	[M]
325	XTB3+10J	SCREW	[M]
326	RMR0334	FIXED PLATE	[M]
327	RMR0624-W2	CLAMPER	[M]
328	RMB0561	ASSIST LEVER SPRING	[M]
329	RMR1121-K	MECHA COVER	[M]
330	RMA1110-2	TRAY ANGLE	[M]
331	RMR1122-H1	TRAY BASE	[M]
332	RMM0204	CARRIER	[M]
333	RMM0203	DRIVE RACK	[M]
334	RDG0432	SPEED UP GEAR	[M]
335	RML0524	SLIDE LOCK	[M]
336	RML0523	CARRIER LOCK	[M]
337	RME0260-1	SLIDE LOCK SPRING	[M]
338	RMR1123-H	TRAY	[M]
339	RXQ0595	MOTOR SUB ASS'Y	[M]
341	RSJ0003	SOLENOLD ASS'Y	[M]
343	RMA1106	UPPER PLATE	[M]
344	RML0519	8CD LEVER	[M]
345	RFKNAAK27GCS	MECHA BASE ASS'Y	[M]
346	RML0522	TURNING STOPPER	[M]
347	RMQ0745	LOWER SPINDLE	[M]
348	RMQ0746	UP/DOWN BASE	[M]
349	RMB0550	LOWER SPINDLE SPRING	[M]
350	RMQ0747	UPPER HOOK	[M]
351	RME0263	CLICK SPRING	[M]
352	RMQ0743	SPINDLE SHAFT	[M]
353	RMB0552	CUSHION SPRING	[M]
354	RDG0430	RELAY GEAR 'A'	[M]
355	RDG0431	RELAY GEAR 'B'	[M]
356	RME0262	DISK LEVER SP.	[M]
357	RMA1105	SUPPORT PLATE	[M]
358	RAE0152Z-3	TRAVERSE	[M]
358-1	SHGD113-1	FLOATING CUSHION	[M]
358-2	SNSD38	TRV MOTOR ASSY SCREW	[M]
358-3	RAF0150A-4S	OPU ASS'Y	[M]
358-4	RDG0247	DRIVE GEAR	[M]
358-5	RDG0248	RELAY GEAR	[M]
358-6	RXQ0339	TRAVERSE MOTOR ASSY	[M]
358-7	RXQ0304-1	NUT PLATE ASSY	[M]
358-8	XQN17+CG5	NUT PLATE ASSY SCREW	[M]
358-9	XQS2+A3FZ	SPINDLE MOTOR SCREW	[M]
358-10	XQS17+A35FZ	TRAVERSE MOTOR SCREW	[M]
359	RME0142	FLOATING SPRING A	[M]
360	RME0109	FLOATING SPRING B	[M]
361	RMR1124A-K	TRAVERSE CHASSIS	[M]
362	RMS0632	TRAVERSE PIN	[M]
363	XTN2+6G	SCREW	[M]
369	RMX0141	PUSH SPACER	[M]
370	RMQ0749	UPPER SPINDLE	[M]
371	RHM0001	MAGNET	[M]
372	RMX0140	DISC SPACER	[M]
373	RME0261	FRONT LOCK SPRING	[M]
374	RMQ0742	SPINDLE BASE	[M]

20.3. Cabinet

20.3.1. Cabinet Parts Location




H
I
J
K
L
M
N
1
2
3
4
5
6
7
8
9
25
48
11
19
46
JK952
JK951
H502B/
W502B
H501B/W501B
(SPEAKER
TERMINAL P.C.B)
CN953
CN952
E950
CN951
44
H502A/
W502A
H501A/
W501A
E500
40
50
H500/
W500
CN500
34
CN501
(SUB-TRANSFORMER
P.C.B)
52
F1
JK950
(SUB-TRANSFORMER
P.C.B)
T951
T950
H950/
W950
43
(MP3 MODULE P.C.B)
CN1000
51
2
CN309
37
(TUNER PACK
P.C.B)
1
CN310
JK101
CN305
CN303
CN311
JK305
CN302
CN304
CN300
CN301
(MAIN/TUNER P.C.B)
36
20

20.3.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REEX0171	30P FFC WIRE	[M]
2	REEX0083	14P FFC WIRE	[M]
3	REEX0144	30P FFC	[M]
4	REEX0145	17P FFC	[M]
5	RGB0113-N	PANA BADGE (HOOK TYP	[M]
6	RGKX0105-A	CD LID	[M]
7	RGLX0043-Q	POWER LIGHT CHIP	[M]
8	RGLX0046-Q	LIGHTING PIECE (L)	[M]
9	RGLX0047-Q	LIGHTING PIECE (R)	[M]
10	RGPX0053E-S	FRONT PANEL	[M]
11	RGRX0020E-AA	REAR PANEL	[M] P
11	RGRX0020E-BA	REAR PANEL	[M] PC
12	RGUX0417-S	POWER BUTTON	[M]
13	RGUX0424-S	DISC BUTTON	[M]
14	RGUX0425-S	DISC EJECT BUTTON	[M]
15	RGUX0426-S	DISPLAY BUTTON	[M]
16	RGUX0428-S	DECK BUTTON	[M]
17	RGUX0431-S	TAPE SELECT BUTTON	[M]
18	RGWX0062-S	VOLUME KNOB	[M]
19	RHD30002-H	SCREW	[M]
20	RKA0059-K	LEG RUBBER	[M]
21	RKFX0091-S	CASS. LID (L)	[M]
22	RKFX0092-S	CASS. LID (R)	[M]
23	RKFX0093-K	CASS. HOLDER (L)	[M]
24	RKFX0094-K	CASS. HOLDER (R)	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
25	RKMX0066A-S	TOP CABINET (BENT)	[M]
26	RKWX0163-H	CASS. WINDOW (L)	[M]
27	RKWX0164-H	CASS. WINDOW (R)	[M]
28	RKWX0165-Q	REMOTE SENSOR WINDOW	[M]
29	RGKX0104-A	FL ORNAMENT	[M]
30	RKWX0167-H	FL WINDOW	[M]
31	RKWX0168-A	DISC BUTTON ORNAMENT	[M]
33	RMBX0018	CASS. OPEN SPRING	[M]
34	RMCX0021	TRANSISTOR CLIP	[M]
35	RMKX0054	CD CHASSIS	[M]
36	RMKX0055	BOTTOM CHASSIS	[M]
37	RSC0027-2	TUNER PACK	[M]
38	RUS757ZAA	CASSETTE HALF SPRING	[M]
39	RXGX0001	DAMPER GEAR	[M]
40	RXXX0029A	HEATSINK UNIT	[M]
41	RYQX0052-S	FUNCTION BUTTON UNIT	[M]
42	RYQX0054-1	FL HOLDER UNIT	[M]
43	SHE187-5J	PCB SUPPORT	[M]
44	XTB3+10J	SCREW	[M]
45	XTB3+10JFZ	SCREW	[M]
46	XTB3+20J	SCREW	[M]
47	XTBS26+10J	SCREW	[M]
48	XTBS3+8JFZ1	SCREW	[M]
49	XTW3+12T	SCREW	[M]
50	XTW3+15T	SCREW	[M]
51	RMR1093-W	P-BASE SUPPORT	[M]
52	REM0072-3	FAN	[M]

20.4. Electrical Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REPX0145C	CD SERVO P.C.B.	[M] (RTL)
	REPX0270B	MAIN / TUNER P.C.B.	[M] (RTL)
	REPX0303A	PANEL P.C.B.	[M] (RTL)
	REPX0303A	TACT SWITCH P.C.B.	[M] (RTL)
	REPX0272C	SPEAKER TERMINAL P.C.B.	[M] (RTL)
	REPX0282A	DECK P.C.B.	[M] (RTL)
	REPX0108H	MECHANISM (DECK 1) P.C.B.	[M] (RTL)
	REPX0108F	MECHANISM (DECK 2) P.C.B.	[M] (RTL)
	REPX0273D	SUB-TRANSFORMER P.C.B.	[M] (RTL) - P
	REPX0273C	SUB-TRANSFORMER P.C.B.	[M] (RTL) - PC
	REPX0272C	POWER P.C.B.	[M] (RTL)
	REP2578A-N	CD LOADING P.C.B.	[M] (RTL)
	REP2578A-N	CD DETECT P.C.B.	[M] (RTL)
	REP2578A-N	SPINDLE POSITION P.C.B.	[M] (RTL)
	REP1999B	TUNER PACK P.C.B.	[M] (RTL)
	REP3122A-T	MP3 MODULE P.C.B.	[M] (RTL)
		INTEGRATED CIRCUITS	
IC1	TA7291P	IC DRIVE	[M]
IC101	LA1833NMNTLM	IC IF & MPX	[M]
IC102	LC72131MDTRM	IC PLL	[M]
IC300	C1BB00000654	IC ASP	[M]
IC302	C0AABB000117	IC OP-AMP (HP AMP)	[M]
IC500	RSN35H2-P	IC HIC	[M] ⚠
IC501	RSN35H2-P	IC HIC	[M] ⚠
IC600	C2BBGF000325	IC MICRO-P	[M]
IC701	AN8885SBE1	IC SERVO AMP	[M]
IC702	MN662790RSC	IC SERVO PROCESSOR	[M]
IC703	AN8739SBE2	IC 4CH DRIVER	[M]
IC800	C2BBGF000323	IC MICRO-P	[M]
IC801	TC74HC4050EL	IC LEVEL SHIFTER	[M]
IC802	TC74HC157AFT	IC QUAD 2 CHANNEL MULTIPLEXOR	[M]
IC803	BA033T	IC VOLTAGE REGULATOR	[M] ⚠
IC804	SI8050JLF118	IC VOLTAGE REGULATOR	[M] ⚠
IC951	0N2180RLC1	IC PHOTO INTERRUPTER	[M]
IC971	0N2180RLC1	IC PHOTO INTERRUPTER	[M]
IC1000	MN1933222MD2	IC MP3 DSP	[M]
IC1001	AN7348STA-E1	IC TAPE PB	[M]
IC1001	MN101C427MA2	IC MP3 MICROPROCESSOR	[M]
IC1002	BU2090AF-E2	IC I/O EXPANDER	[M]
IC1002	C3BBHG000048	IC 64K X 16 SRAM	[M]
IC1003	C0JBAK000133	IC RIPPLE-CARRY BINARY COUNTER	[M]
IC1004	BA7755A	IC R/P SELECT	[M]
IC1004	C0JBAF000184	IC DUAL D FLIP FLOP	[M]
IC1005	C0JBAB000007	IC INVERTER	[M]
		TRANSISTORS	
Q1	2SK544F-AC	TRANSISTOR	[M]
Q1	RVTDTC143EST	TRANSISTOR	[M]
Q2	2SC2786MTA	TRANSISTOR	[M]
Q3	2SC2787FL1TA	TRANSISTOR	[M]
Q4	2SC2787FL1TA	TRANSISTOR	[M]
Q101	2SC2058SPTA	TRANSISTOR	[M]
Q106	KRA102MTA	TRANSISTOR	[M] ⚠
Q201	KTC3875GRTA	TRANSISTOR	[M]
Q202	KTC3875GRTA	TRANSISTOR	[M]
Q203	KTD1304TA	TRANSISTOR	[M]
Q204	KTC3875GRTA	TRANSISTOR	[M]
Q205	KTC3875GRTA	TRANSISTOR	[M]
Q207	KTD1304TA	TRANSISTOR	[M]
Q301	KRC102STA	TRANSISTOR	[M]
Q302	KTA12710YTA	TRANSISTOR	[M]
Q303	KRC101STA	TRANSISTOR	[M]
Q304	KRC101STA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q305	KRC101STA	TRANSISTOR	[M]
Q306	KRC101STA	TRANSISTOR	[M]
Q307	KRA102STA	TRANSISTOR	[M]
Q310	KRC102STA	TRANSISTOR	[M]
Q311	2SC2712GRT5T	TRANSISTOR	[M]
Q312	2SC2712GRT5T	TRANSISTOR	[M]
Q314	2SC2712GRT5T	TRANSISTOR	[M]
Q315	KRC101STA	TRANSISTOR	[M]
Q316	KRC102STA	TRANSISTOR	[M]
Q317	KRC102STA	TRANSISTOR	[M]
Q318	KRA111STA	TRANSISTOR	[M]
Q319	KTA12710YTA	TRANSISTOR	[M]
Q320	B1AAKD000009	TRANSISTOR	[M] ⚠
Q370	2SA1037AKSTX	TRANSISTOR	[M]
Q371	2SD592AQRSTA	TRANSISTOR	[M] ⚠
Q372	2SA1037AKSTX	TRANSISTOR	[M]
Q373	2SD592AQRSTA	TRANSISTOR	[M]
Q374	2SA1037AKSTX	TRANSISTOR	[M]
Q375	2SC2412KT96R	TRANSISTOR	[M]
Q401	KTC3875GRTA	TRANSISTOR	[M]
Q402	KTC3875GRTA	TRANSISTOR	[M]
Q403	KTD1304TA	TRANSISTOR	[M]
Q404	KTC3875GRTA	TRANSISTOR	[M]
Q405	KTC3875GRTA	TRANSISTOR	[M]
Q407	KTD1304TA	TRANSISTOR	[M]
Q500	KTC2026	TRANSISTOR	[M] ⚠
Q501	KTA1046	TRANSISTOR	[M] ⚠
Q502	KTC2026	TRANSISTOR	[M] ⚠
Q503	KTA1046	TRANSISTOR	[M]
Q504	KRA110MTA	TRANSISTOR	[M]
Q505	KTC3199GRTA	TRANSISTOR	[M] ⚠
Q506	B1AAKD000009	TRANSISTOR	[M] ⚠
Q507	KRA110MTA	TRANSISTOR	[M]
Q508	KTA12710YTA	TRANSISTOR	[M]
Q509	KTC3199GRTA	TRANSISTOR	[M] ⚠
Q510	KTC3199GRTA	TRANSISTOR	[M]
Q511	KTC3199GRTA	TRANSISTOR	[M]
Q512	2SD2144STA	TRANSISTOR	[M]
Q513	KTA1267GRTA	TRANSISTOR	[M]
Q600	KRC103MTA	TRANSISTOR	[M]
Q601	KRC102MTA	TRANSISTOR	[M]
Q602	KTA1267GRTA	TRANSISTOR	[M]
Q603	KTC3199GRTA	TRANSISTOR	[M]
Q604	KTC3199GRTA	TRANSISTOR	[M]
Q605	KRC102MTA	TRANSISTOR	[M]
Q608	KTC3199GRTA	TRANSISTOR	[M]
Q609	KTC3199GRTA	TRANSISTOR	[M]
Q610	KTC3199GRTA	TRANSISTOR	[M]
Q611	KTC3199GRTA	TRANSISTOR	[M]
Q612	KTC3199GRTA	TRANSISTOR	[M] ⚠
Q613	KRC102MTA	TRANSISTOR	[M]
Q614	KTC3199GRTA	TRANSISTOR	[M]
Q615	KTA1267GRTA	TRANSISTOR	[M] ⚠
Q616	KTC3199GRTA	TRANSISTOR	[M]
Q701	2SA1037AKSTX	TRANSISTOR	[M]
Q950	KTC3205YTA	TRANSISTOR	[M] ⚠
Q951	2SB621ARSTA	TRANSISTOR	[M] ⚠
Q953	2SD2144STA	TRANSISTOR	[M]
Q1000	UN5211TX	TRANSISTOR	[M]
Q1001	KTC3199GRTA	TRANSISTOR	[M]
Q1003	2SD2144STA	TRANSISTOR	[M]
Q1004	2SD2144STA	TRANSISTOR	[M]
Q1005	2SD2144STA	TRANSISTOR	[M]
Q1007	KTC3875GRTA	TRANSISTOR	[M]
Q1008	KTC3875GRTA	TRANSISTOR	[M]
Q1009	KTC3875GRTA	TRANSISTOR	[M]
Q1010	KTC3875GRTA	TRANSISTOR	[M]
Q1011	KTC3875GRTA	TRANSISTOR	[M]
Q1012	KTD1304TA	TRANSISTOR	[M]
Q1013	KTD1304TA	TRANSISTOR	[M]
Q1014	2SC2412KT96R	TRANSISTOR	[M]
Q1015	2SC2412KT96R	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q1016	KRA102STA	TRANSISTOR	[M]
Q1017	KTD1146YTA	TRANSISTOR	[M]
Q1018	KTA12710YTA	TRANSISTOR	[M]
Q1019	KTA12710YTA	TRANSISTOR	[M]
Q1020	KTD1304TA	TRANSISTOR	[M]
Q1021	KTD1304TA	TRANSISTOR	[M]
Q1022	KRA102STA	TRANSISTOR	[M]
Q1023	KRA102STA	TRANSISTOR	[M]
		DIODES	
D1	GP1S94	DIODE	[M]
D1	SVC211SPA-AL	DIODE	[M]
D2	MTZJ4R7BTA	DIODE	[M]
D2	SVC211SPA-AL	DIODE	[M]
D3	SVC211SPA-AL	DIODE	[M]
D101	UDZSTE175R1B	DIODE	[M]
D202	MA728TX	DIODE	[M]
D204	DA204KT146	DIODE	[M]
D205	MA728TX	DIODE	[M]
D301	1SS355TE17	DIODE	[M]
D302	DAP202KT146	DIODE	[M]
D303	DAP202KT146	DIODE	[M]
D304	DAP202KT146	DIODE	[M]
D308	RL1N4003N02	DIODE	[M]
D311	UDZSTE175R1B	DIODE	[M]
D312	RL1N4003N02	DIODE	[M]
D317	UDZSTE177R5B	DIODE	[M]
D370	1SS355TE17	DIODE	[M]
D371	UDZSTE1710B	DIODE	[M]
D374	RL1N4003N02	DIODE	[M]
D375	1SS355TE17	DIODE	[M]
D376	1SS355TE17	DIODE	[M]
D377	1SS355TE17	DIODE	[M]
D402	MA728TX	DIODE	[M]
D404	DA204KT146	DIODE	[M]
D405	MA728TX	DIODE	[M]
D500	MTZJ15CTA	DIODE	[M]
D502	MTZJ10BTA	DIODE	[M]
D503	MTZJ10BTA	DIODE	[M]
D504	RVD1SS133TA	DIODE	[M]
D505	RVD1SS133TA	DIODE	[M]
D506	RVD1SS133TA	DIODE	[M]
D507	MTZJ5R6BTA	DIODE	[M]
D508	MTZJ16BTA	DIODE	[M]
D509	RL1N4003N02	DIODE	[M]
D510	RL1N4003N02	DIODE	[M]
D511	RL1N4003N02	DIODE	[M]
D512	RVD1SS133TA	DIODE	[M]
D513	RL1N4003N02	DIODE	[M]
D611	1SS380TE-17	DIODE	[M]
D612	1SS380TE-17	DIODE	[M]
D616	MTZJ5R6BTA	DIODE	[M]
D617	RVD1SS133TA	DIODE	[M]
D618	RVD1SS133TA	DIODE	[M]
D619	MA723TA	DIODE	[M]
D620	SLI325URCT31	DIODE	[M]
D621	MA723TA	DIODE	[M]
D622	LNJ301MPUJAD	DIODE	[M]
D623	LNJ301MPUJAD	DIODE	[M]
D624	LNJ301MPUJAD	DIODE	[M]
D625	RVD1SS133TA	DIODE	[M]
D626	RVD1SS133TA	DIODE	[M]
D801	1SS355TE17	DIODE	[M]
D802	1SS355TE17	DIODE	[M]
D803	RL1N4003N02	DIODE	[M]
D804	EK14LFH2K	DIODE	[M]
D902	SLR325YCT31	DIODE	[M]
D903	SLR325YCT31	DIODE	[M]
D904	LNJ301MPUJAD	DIODE	[M]
D905	LNJ301MPUJAD	DIODE	[M]
D950	1D3E	DIODE	[M]
D951	1D3E	DIODE	[M]
D951	MA165TA	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D952	MTZJ6R8BTA	DIODE	[M]
D953	1D3E	DIODE	[M]
D954	1D3E	DIODE	[M]
D955	RL1N4003N02	DIODE	[M]
D956	RL1N4003N02	DIODE	[M]
D957	MTZJ33BTA	DIODE	[M]
D958	RL1N4003N02	DIODE	[M]
D959	KBP152G4R5	DIODE	[M] ⚠
D960	KBU803-001	DIODE	[M] ⚠
D971	MA165TA	DIODE	[M]
D1003	1SS355TE17	DIODE	[M]
D1004	UDZTE173R6B	DIODE	[M]
		VARIABLE RESISTORS	
VR600	EVEKE2F3024M	VR VOLUME JOG	[M]
		SWITCHES	
S600	EVQ21405R	SW POWER	[M]
S601	EVQ21405R	SW DISPLAY	[M]
S602	EVQ21405R	SW DISC 1	[M]
S603	EVQ21405R	SW DISC 2	[M]
S604	EVQ21405R	SW DISC 3	[M]
S605	EVQ21405R	SW DISC 4	[M]
S606	EVQ21405R	SW DISC 5	[M]
S607	EVQ21405R	SW CD OPEN/CLOSE	[M]
S701	RSH1A043-U	SW REST	[M]
S910	EVQ21405R	SW CD PLAY	[M]
S911	EVQ21405R	SW TAPE PLAY	[M]
S912	EVQ21405R	SW TUNER/BAND	[M]
S913	EVQ21405R	SW AUX	[M]
S914	EVQ21405R	SW SUPER SOUND EQ	[M]
S920	EVQ21405R	SW DECK 2 OPEN	[M]
S921	EVQ21405R	SW FF	[M]
S922	EVQ21405R	SW STOP	[M]
S923	EVQ21405R	SW REW	[M]
S924	EVQ21405R	SW DECK 1 OPEN	[M]
S925	EVQ21405R	SW DECK 1/2	[M]
S926	EVQ21405R	SW REC/STOP	[M]
S928	EVQ21405R	SW S. W./PRESET EQ	[M]
S951	RSH1A018-3U	SW MODE	[M]
S952	RSH1A019-2U	SW LEAF	[M]
S953	RSH1A019-2U	SW LEAF	[M]
S971	RSH1A018-3U	SW LEAF	[M]
S972	RSH1A019-2U	SW LEAF	[M]
S973	RSH1A019-2U	SW LEAF	[M]
S974	RSH1A019-2U	SW LEAF	[M]
S975	RSH1A019-2U	SW LEAF	[M]
S976	RSH1A019-2U	SW LEAF	[M]
		SWITCHES	
SW1	RSH1A032-U	SW PUSH	[M]
SW2	RSH1A032-U	SW PUSH	[M]
SW3	RSH1A005-1U	SW	[M]
SW4	RSH1A91ZA-A	SW CD	[M]
SW5	RSP1A017-A	SW LOCK	[M]
		CONNECTORS	
CN1	RJS1A9414	FF CONNECTOR	[M]
CN300	RJU057G12	12P P2 MQ CONNECTOR	[M]
CN301	RJU057G12	12P P2 MQ CONNECTOR	[M]
CN302	K1MN30A00046	30P FFC CONNECTOR	[M]
CN303	RJS1A9417	FFC CONNECTOR	[M]
CN304	RJS1A5210	10P WIRE HOLDER	[M]
CN305	RJP2G4YA	CONNECTOR	[M]
CN309	RJS1A9414-1	14P CONNECTOR	[M]
CN310	K1MN30A00046	30P FFC CONNECTOR	[M]
CN311	K1KA20A00108	20P CONNECTOR	[M]
CN500	RJT057G12	12P P2 MQ CONNECTOR	[M]
CN501	RJT057G12	12P P2 MQ CONNECTOR	[M]
CN701	RJS2A8616	16P FPC CONNECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
CN702	RJS2A4230-1F	30 PIN CONNECTOR	[M]
CN900	RJT066H08D	8P B-B CONNECTOR	[M]
CN951	RJP13G4YA	13P CONNECTOR	[M]
CN952	RJP7G18ZA	7P CONNECTOR	[M]
CN953	RJP7G4YA	7P PLUG IN CONNECTOR	[M]
CN1000	K1KA20B00022	CONNECTOR 20P	[M]
CN1001	52151-0810	8P WIRE TRAP	[M]
CP600	K1MN30A00046	30P FFC CONNECTOR	[M]
CP601	RJS1A9417	FFC CONNECTOR	[M]
CP900	RJU066H08	8P B-B SOCKET	[M]
CP1001	RJT071K09A	9P B/B CONNECTOR	[M]
CP1002	RJT071K09A	9P B/B CONNECTOR	[M]
CS951	RJU071H09M1	CONNECTOR	[M]
CS971	RJU071H09M1	CONNECTOR	[M]
CS1001	RJS1A6805-J	5P CONNECTOR SOCKET	[M]
CS1002	RJS1A6805-J	5P CONNECTOR SOCKET	[M]
		COILS & TRANSFORMERS	
L1	RLQZP1R2KT-Y	COIL	[M]
L2	RLQZPR47KT-Y	COIL	[M]
L102	RLQB1R0KTD-D	INDUCTOR	[M]
L600	RLQB3R3KT-1Y	COIL	[M]
L602	RLQB101KT-1Y	COIL	[M]
L606	RLQZP101KT-Y	AXIAL COIL	[M]
L607	RLQZP101KT-Y	AXIAL COIL	[M]
L608	RLQZP100KT-Y	AXIAL COIL	[M]
L701	RLBN102V-Y	CHIP INDUCTOR	[M]
L702	RLBN102V-Y	CHIP INDUCTOR	[M]
L703	RLBN102V-Y	CHIP INDUCTOR	[M]
L704	RLBN102V-Y	CHIP INDUCTOR	[M]
L801	RLL500050T-Y	RF CHOKE COIL	[M]
L802	RLL500050T-Y	RF CHOKE COIL	[M]
L803	RLL500050T-Y	RF CHOKE COIL	[M]
L804	RLQX101M-T	COIL	[M]
L805	RLL500050T-Y	RF CHOKE COIL	[M]
L1001	RLQB470JTD-D	RF CHOKE COIL	[M]
L1001	VLP0157-T	CHIP INDUCTOR	[M]
L1002	7L1A62N	BIAS OSC COIL	[M]
T950	G4C7AGD00003	MAIN TRANSFORMER	[M] PC ⚠
T950	G4C7AGD00004	MAIN TRANSFORMER	[M] P ⚠
T951	G4C2AAJ00001	BACK UP TRANSFORMER	[M] ⚠
		COMPONENT COMBINATION	
Z101	RLA2Z007-T	COIL	[M]
Z102	RLI2Z021M-T	AM IF BLOCK	[M]
Z600	RCD37142TC5	REMOTE CONTROL SENSO	[M]
Z950	ERZV10V511CS	ZENER	[M]
Z971	RGSD12A1445T	RADA RESISTOR	[M]
Z1002	RGSD12A1445T	RADA RESISTOR	[M]
		CERAMIC FILTERS	
CF201	RLFFETWND01M	FM CF	[M]
CF202	RLFFETWND01M	FM CF	[M]
		RELAY	
RL950	RSY0040M-0	PRIMARY RELAY	[M] ⚠
		OSCILLATORS	
X102	RLFDFT22DD	DISCRIMINATOR	[M]
X103	RSXC7M20S05T	CRYSTAL OSCILLATOR	[M]
X600	RSXD32K7S02	CRYSTAL OSCILLATOR	[M]
X600	RSXY6M00M05T	CERAMIC OCCILLATOR	[M]
X601	RSXZ4M19B01T	CERAMIC OCCILLATOR	[M]
X701	RSXB16M9J02T	CRYSTAL OSCILLATOR	[M]
		DISPLAY TUBE	

Ref. No.	Part No.	Part Name & Description	Remarks
FL600	A2BD00000053	FL DISPLAY	[M]
		FUSES	
F1	K5D402AQ0002	PRIMARY FUSE 4A	[M] ⚠
		FUSE HOLDERS	
FC1	EYF52BC	FUSE HOLDER	[M]
FC2	EYF52BC	FUSE HOLDER	[M]
		FUSE PROTECTOR	
FP950	K5G102AA0002	FUSE PROTECTOR	[M] P ⚠
FP950	K5G402A00018	FUSE PROTECTOR	[M] PC ⚠
FP951	K5G102AA0002	FUSE PROTECTOR	[M] P ⚠
FP951	20N1000FSE-F	FUSE PROTECTOR	[M] PC ⚠
		HOLDERS	
H500	K1YF07000003	7 PIN WIRE HOLDER (	[M]
H501A	RJS1A5505	5P WIRE HOLDER	[M]
H501B	RJS1A5505	5P WIRE HOLDER	[M]
H502A	RJS1A5505	5P WIRE HOLDER	[M]
H502B	RJS1A5505	5P WIRE HOLDER	[M]
H600	RMR0316	7P CABLE HOLDER	[M]
H601	RMR0317	8P CABLE HOLDER	[M]
H950	K1YF13000001	13 PIN WIRE HOLDER (	[M]
H1001	RMR0319	10P CABLE HOLDER	[M]
		JACKS	
JK101	RJH5414-1	JK ANTENNA	[M]
JK305	RJH2213L-1	JK 2P RCA	[M]
JK601	RJJ37TK07-X	JK HP/MIC	[M]
JK950	K2AB2B000002	JK AC INLET	[M] ⚠
JK951	RJR0054P-J	JK 4 TERMINAL SPK	[M]
JK952	RJR0054N-J	JK 4 TERMINAL SPK	[M]
		EARTH TERMINAL	
E500	SNE1004-2	EARTH TERMINAL	[M]
E950	SNE1004-2	EARTH TERMINAL	[M]
		WIRES	
W1	REZ1023-1	4P WIRE	[M]
W2	REZ1024	3P WIRE	[M]
W500	REXX0275	7P FLAT WIRE	[M]
W501B	RWJ1805155XX	5P FLAT WIRE	[M]
W502B	RWJ1805175XX	5P FLAT WIRE	[M]
W600	REXX0273	7P FLAT WIRE	[M]
W601	RWJ0208150RX	8P PANEL TO DECK	[M]
W950	REXX0274	13P FLAT WIRE	[M]
W1001	RWJ6510110XX	10P WIRE	[M]
W1002	RWJ0102050CK	MAIN-MECHA MOTOR WIR	[M]
		RESISTORS	
R1	ERDS2TJ102T	1K 1/4W	[M]
R1	ERDS2TJ104T	100K 1/4W	[M]
R2	ERDS2TJ104T	100K 1/4W	[M]
R3	ERDS2TJ221T	220 1/4W	[M]
R4	ERDS2TJ104T	100K 1/4W	[M]
R5	ERDS2TJ564T	560K 1/4W	[M]
R6	ERDS2TJ391T	390 1/4W	[M]
R7	ERDS2TJ272T	2.7K 1/4W	[M]
R8	ERDS2TJ684T	680K 1/4W	[M]
R9	ERDS2TJ391T	390 1/4W	[M]
R10	ERDS2TJ391T	390 1/4W	[M]
R11	ERDS2TJ684T	680K 1/4W	[M]
R101	ERJ3GEY0R00V	0 1/16W	[M]
R102	ERJ3GEYJ472V	4.7K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R103	ERJ3GEYJ271V	270 1/16W	[M]
R104	ERJ3GEYJ102V	1K 1/16W	[M]
R105	ERJ3GEYJ471V	470 1/16W	[M]
R106	ERJ3GEYJ474V	470K 1/16W	[M]
R107	ERJ3GEYJ331V	330 1/16W	[M]
R110	ERJ3GEYJ102V	1K 1/16W	[M]
R111	ERJ3GEYJ391V	390 1/16W	[M]
R112	ERJ3GEYJ104V	100K 1/16W	[M]
R113	ERJ3GEYJ103V	10K 1/16W	[M]
R114	ERJ3GEYJ562V	5.6K 1/16W	[M]
R115	ERJ3GEYJ561V	560 1/16W	[M]
R116	ERJ3GEYJ102V	1K 1/16W	[M]
R117	ERJ3GEYJ473V	47K 1/16W	[M]
R118	ERJ3GEYJ332V	3.3K 1/16W	[M]
R119	ERJ3GEYJ332V	3.3K 1/16W	[M]
R120	ERJ3GEYJ473V	47K 1/16W	[M]
R121	ERJ3GEYJ223V	22K 1/16W	[M]
R122	ERJ3GEYJ272V	2.7K 1/16W	[M]
R123	ERJ3GEYJ683V	68K 1/16W	[M]
R124	ERJ3GEYJ330V	33 1/16W	[M]
R125	ERJ3GEYJ471V	470 1/16W	[M]
R126	ERJ3GEYJ102V	1K 1/16W	[M]
R127	ERJ3GEYJ471V	470 1/16W	[M]
R128	ERJ3GEYJ820V	82 1/16W	[M]
R129	ERJ3GEYJ273V	27K 1/16W	[M]
R130	ERJ3GEYJ103V	10K 1/16W	[M]
R131	ERJ3GEYJ121V	120 1/16W	[M]
R132	ERJ3GEYJ103V	10K 1/16W	[M]
R133	ERJ3GEYJ102V	1K 1/16W	[M]
R134	ERJ3GEYJ471V	470 1/16W	[M]
R135	ERJ3GEYJ102V	1K 1/16W	[M]
R136	ERJ3GEYJ102V	1K 1/16W	[M]
R137	ERJ3GEYJ102V	1K 1/16W	[M]
R138	ERJ3GEYJ332V	3.3K 1/16W	[M]
R141	ERJ3GEYJ682V	6.8K 1/16W	[M]
R142	ERJ3GEYJ682V	6.8K 1/16W	[M]
R143	ERJ3GEYJ223V	22K 1/16W	[M]
R144	ERJ3GEYJ121V	120 1/16W	[M]
R145	ERJ3GEYJ104V	100K 1/16W	[M]
R146	ERJ3GEYJ104V	100K 1/16W	[M]
R151	ERJ3GEYJ820V	82 1/16W	[M]
R152	ERJ3GEY0R00V	0 1/16W	[M]
R201	ERJ3GEYJ103V	10K 1/16W	[M]
R202	ERJ3GEYJ332V	3.3K 1/16W	[M]
R203	ERJ3GEYJ102V	1K 1/16W	[M]
R204	ERJ3GEYJ473V	47K 1/16W	[M]
R205	ERJ3GEYJ102V	1K 1/16W	[M]
R206	ERJ3GEYJ473V	47K 1/16W	[M]
R207	ERJ3GEYJ182V	1.8K 1/16W	[M]
R208	ERJ3GEYJ562V	5.6K 1/16W	[M]
R209	ERJ3GEYJ104V	100K 1/16W	[M]
R210	ERJ3GEYJ822V	8.2K 1/16W	[M]
R211	ERJ3GEYJ101V	100 1/16W	[M]
R212	ERJ3GEYJ334V	330K 1/16W	[M]
R213	ERJ3GEYJ823V	82K 1/16W	[M]
R214	ERJ3GEYJ222V	2.2K 1/16W	[M]
R215	ERJ3GEYJ101V	100 1/16W	[M]
R216	ERJ3GEYJ102V	1K 1/16W	[M]
R217	ERJ3GEYJ104V	100K 1/16W	[M]
R218	ERJ3GEYJ102V	1K 1/16W	[M]
R219	ERJ3GEYJ152V	1.5K 1/16W	[M]
R220	ERJ3GEYJ392V	3.9K 1/16W	[M]
R221	ERJ3GEYJ392V	3.9K 1/16W	[M]
R222	ERJ3GEYJ472V	4.7K 1/16W	[M]
R223	ERJ3GEYJ473V	47K 1/16W	[M]
R224	ERJ3GEYJ302V	3K 1/16W	[M]
R225	ERJ3GEYJ563V	56K 1/16W	[M]
R226	ERJ3GEYJ222V	2.2K 1/16W	[M]
R227	ERJ3GEYJ472V	4.7K 1/16W	[M]
R228	ERJ3GEYJ104V	100K 1/16W	[M]
R229	ERJ3GEYJ102V	1K 1/16W	[M]
R230	ERJ3GEYJ123V	12K 1/16W	[M]
R231	ERJ3GEYJ222V	2.2K 1/16W	[M]
R232	ERJ3GEYJ104V	100K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R233	ERJ3GEYJ152V	1.5K 1/16W	[M]
R234	ERJ3GEYJ470V	47 1/16W	[M]
R235	ERJ3GEYJ470V	47 1/16W	[M]
R236	ERJ3GEYJ470V	47 1/16W	[M]
R237	ERJ3GEYJ470V	47 1/16W	[M]
R238	ERJ3GEYJ472V	4.7K 1/16W	[M]
R240	ERJ3GEYJ123V	12K 1/16W	[M]
R241	ERJ3GEYJ103V	10K 1/16W	[M]
R242	ERJ3GEYJ153V	15K 1/16W	[M]
R243	ERJ3GEYJ153V	15K 1/16W	[M]
R245	ERJ3GEYJ103V	10K 1/16W	[M]
R246	ERJ3GEY0R00V	0 1/16W	[M]
R247	ERJ3GEYJ221V	220 1/16W	[M]
R248	ERJ3GEYJ224V	220K 1/16W	[M]
R249	ERJ3GEYJ102V	1K 1/16W	[M]
R250	ERJ3GEYJ332V	3.3K 1/16W	[M]
R252	ERJ3GEYJ224V	220K 1/16W	[M]
R253	ERJ3GEY0R00V	0 1/16W	[M]
R261	ERJ3GEYJ333V	33K 1/16W	[M]
R262	ERJ3GEYJ331V	330 1/16W	[M]
R266	ERJ3GEYJ681V	680 1/16W	[M]
R270	ERJ3GEYJ393V	39K 1/16W	[M]
R271	ERJ3GEYJ153V	15K 1/16W	[M]
R302	ERJ3GEYJ472V	4.7K 1/16W	[M]
R303	ERJ3GEYJ103V	10K 1/16W	[M]
R304	ERJ3GEYJ222V	2.2K 1/16W	[M]
R305	ERJ3GEYJ222V	2.2K 1/16W	[M]
R312	ERJ3GEYJ221V	220 1/16W	[M]
R313	ERJ3GEY0R00V	0 1/16W	[M]
R314	ERJ3GEY0R00V	0 1/16W	[M]
R315	ERJ3GEY0R00V	0 1/16W	[M]
R316	ERJ3GEYJ103V	10K 1/16W	[M]
R317	ERJ3GEYJ102V	1K 1/16W	[M]
R318	ERJ3GEYJ101V	100 1/16W	[M]
R319	ERJ3GEYJ101V	100 1/16W	[M]
R320	ERJ3GEYJ101V	100 1/16W	[M]
R321	ERJ3GEYJ101V	100 1/16W	[M]
R322	ERJ3GEYJ101V	100 1/16W	[M]
R324	ERJ3GEYJ102V	1K 1/16W	[M]
R325	ERJ3GEYJ182V	1.8K 1/16W	[M]
R326	ERJ3GEYJ182V	1.8K 1/16W	[M]
R327	ERJ3GEYJ101V	100 1/16W	[M]
R328	ERJ3GEYJ182V	1.8K 1/16W	[M]
R329	ERJ3GEYJ101V	100 1/16W	[M]
R330	ERJ3GEY0R00V	0 1/16W	[M]
R331	ERJ3GEY0R00V	0 1/16W	[M]
R332	ERJ3GEYJ101V	100 1/16W	[M]
R333	ERJ3GEYJ101V	100 1/16W	[M]
R334	ERJ3GEYJ102V	1K 1/16W	[M]
R335	ERJ3GEYJ102V	1K 1/16W	[M]
R336	ERJ3GEY0R00V	0 1/16W	[M]
R337	ERJ3GEYJ273V	27K 1/16W	[M]
R338	ERJ3GEY0R00V	0 1/16W	[M]
R339	ERJ3GEYJ563V	56K 1/16W	[M]
R340	ERJ3GEYJ221V	220 1/16W	[M]
R341	ERJ3GEYJ391V	390 1/16W	[M]
R342	ERJ3GEYJ391V	390 1/16W	[M]
R344	ERJ3GEY0R00V	0 1/16W	[M]
R345	ERJ3GEY0R00V	0 1/16W	[M]
R370	ERJ3GEYJ104V	100K 1/16W	[M]
R371	ERJ3GEYJ472V	4.7K 1/16W	[M]
R372	ERJ3GEYJ472V	4.7K 1/16W	[M]
R373	ERJ3GEYJ332V	3.3K 1/16W	[M]
R374	ERJ3GEYJ104V	100K 1/16W	[M]
R375	ERJ3GEYJ103V	10K 1/16W	[M]
R376	ERDS1FVJ220T	22 1/2W	[M]
R377	ERJ3GEYJ224V	220K 1/16W	[M]
R378	ERJ3GEYJ101V	100 1/16W	[M]
R379	ERJ3GEYJ473V	47K 1/16W	[M]
R380	ERJ3GEYJ103V	10K 1/16W	[M]
R381	ERJ3GEYJ225V	2.2M 1/16W	[M]
R382	ERDS1FVJ330T	33 1/2W	[M]
R384	ERJ3GEY0R00V	0 1/16W	[M]
R385	ERDS1FVJ270T	27 1/2W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R386	ERJ3GEY0R00V	0 1/16W	[M]
R387	ERJ3GEY0R00V	0 1/16W	[M]
R388	ERJ3GEYJ563V	56K 1/16W	[M]
R389	ERJ3GEY0R00V	0 1/16W	[M]
R390	ERJ3GEY0R00V	0 1/16W	[M]
R391	ERJ3GEY0R00V	0 1/16W	[M]
R392	ERJ3GEY0R00V	0 1/16W	[M]
R393	ERJ3GEY0R00V	0 1/16W	[M]
R394	ERJ3GEY0R00V	0 1/16W	[M]
R395	ERJ3GEY0R00V	0 1/16W	[M]
R396	ERJ3GEY0R00V	0 1/16W	[M]
R397	ERJ3GEY0R00V	0 1/16W	[M]
R398	ERJ3GEYJ103V	10K 1/16W	[M]
R399	ERJ3GEYJ103V	10K 1/16W	[M]
R401	ERJ3GEYJ103V	10K 1/16W	[M]
R402	ERJ3GEYJ332V	3.3K 1/16W	[M]
R403	ERJ3GEYJ102V	1K 1/16W	[M]
R404	ERJ3GEYJ473V	47K 1/16W	[M]
R405	ERJ3GEYJ102V	1K 1/16W	[M]
R406	ERJ3GEYJ473V	47K 1/16W	[M]
R407	ERJ3GEYJ182V	1.8K 1/16W	[M]
R408	ERJ3GEYJ562V	5.6K 1/16W	[M]
R409	ERJ3GEYJ104V	100K 1/16W	[M]
R410	ERJ3GEYJ822V	8.2K 1/16W	[M]
R411	ERJ3GEYJ101V	100 1/16W	[M]
R412	ERJ3GEYJ334V	330K 1/16W	[M]
R413	ERJ3GEYJ823V	82K 1/16W	[M]
R414	ERJ3GEYJ222V	2.2K 1/16W	[M]
R415	ERJ3GEYJ101V	100 1/16W	[M]
R416	ERJ3GEYJ102V	1K 1/16W	[M]
R417	ERJ3GEYJ104V	100K 1/16W	[M]
R418	ERJ3GEYJ102V	1K 1/16W	[M]
R419	ERJ3GEYJ152V	1.5K 1/16W	[M]
R420	ERJ3GEYJ392V	3.9K 1/16W	[M]
R421	ERJ3GEYJ392V	3.9K 1/16W	[M]
R422	ERJ3GEYJ472V	4.7K 1/16W	[M]
R423	ERJ3GEYJ473V	47K 1/16W	[M]
R424	ERJ3GEYJ302V	3K 1/16W	[M]
R425	ERJ3GEYJ563V	56K 1/16W	[M]
R426	ERJ3GEYJ222V	2.2K 1/16W	[M]
R427	ERJ3GEYJ472V	4.7K 1/16W	[M]
R428	ERJ3GEYJ104V	100K 1/16W	[M]
R429	ERJ3GEYJ102V	1K 1/16W	[M]
R430	ERJ3GEYJ123V	12K 1/16W	[M]
R431	ERJ3GEYJ222V	2.2K 1/16W	[M]
R432	ERJ3GEYJ104V	100K 1/16W	[M]
R433	ERJ3GEYJ152V	1.5K 1/16W	[M]
R434	ERJ3GEYJ470V	47 1/16W	[M]
R435	ERJ3GEYJ470V	47 1/16W	[M]
R436	ERJ3GEYJ470V	47 1/16W	[M]
R437	ERJ3GEYJ470V	47 1/16W	[M]
R438	ERJ3GEYJ472V	4.7K 1/16W	[M]
R440	ERJ3GEYJ123V	12K 1/16W	[M]
R441	ERJ3GEYJ103V	10K 1/16W	[M]
R442	ERJ3GEYJ153V	15K 1/16W	[M]
R443	ERJ3GEYJ153V	15K 1/16W	[M]
R445	ERJ3GEYJ103V	10K 1/16W	[M]
R446	ERJ3GEY0R00V	0 1/16W	[M]
R447	ERJ3GEYJ221V	220 1/16W	[M]
R448	ERJ3GEYJ224V	220K 1/16W	[M]
R449	ERJ3GEYJ102V	1K 1/16W	[M]
R450	ERJ3GEYJ332V	3.3K 1/16W	[M]
R452	ERJ3GEYJ224V	220K 1/16W	[M]
R461	ERJ3GEYJ333V	33K 1/16W	[M]
R462	ERJ3GEYJ331V	330 1/16W	[M]
R466	ERJ3GEYJ681V	680 1/16W	[M]
R470	ERJ3GEYJ393V	39K 1/16W	[M]
R471	ERJ3GEYJ153V	15K 1/16W	[M]
R500	ERDS2TJ153T	15K 1/4W	[M]
R501	ERDS2TJ153T	15K 1/4W	[M]
R502	ERDS2TJ153T	15K 1/4W	[M]
R503	ERDS2TJ153T	15K 1/4W	[M]
R504	ERDS2TJ562T	5.6K 1/4W	[M]
R505	ERDS2TJ562T	5.6K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R506	ERDS2TJ562T	5.6K 1/4W	[M]
R507	ERDS2TJ562T	5.6K 1/4W	[M]
R508	ERDS2TJ683T	68K 1/4W	[M]
R509	ERDS2TJ683T	68K 1/4W	[M]
R510	ERDS2TJ562T	5.6K 1/4W	[M]
R511	ERDS2TJ224T	220K 1/4W	[M]
R512	ERDS2TJ562T	5.6K 1/4W	[M]
R514	ERDS2TJ334T	330K 1/4W	[M]
R515	ERDS2TJ683T	68K 1/4W	[M]
R516	ERDS2TJ154T	150K 1/4W	[M]
R517	ERDS2TJ124T	120K 1/4W	[M]
R518	ERDS2TJ184T	180K 1/4W	[M]
R519	ERDS2TJ124T	120K 1/4W	[M]
R521	ERDS2TJ683T	68K 1/4W	[M]
R522	ERDS2TJ562T	5.6K 1/4W	[M]
R523	ERDS2TJ683T	68K 1/4W	[M]
R524	ERDS2TJ683T	68K 1/4W	[M]
R525	ERDS2TJ562T	5.6K 1/4W	[M]
R526	ERDS2TJ334T	330K 1/4W	[M]
R527	ERDS2TJ683T	68K 1/4W	[M]
R528	ERDS2TJ683T	68K 1/4W	[M]
R529	ERDS2TJ103T	10K 1/4W	[M]
R530	ERDS2TJ103T	10K 1/4W	[M]
R531	ERDS2TJ682T	6.8K 1/4W	[M]
R532	ERDS2TJ223T	22K 1/4W	[M]
R533	ERDS2TJ104T	100K 1/4W	[M]
R534	ERDS2TJ223T	22K 1/4W	[M]
R535	ERDS2TJ223T	22K 1/4W	[M]
R536	ERDS2TJ103T	10K 1/4W	[M]
R537	ERDS1FVJ2R7T	2.7 1/2W	[M]
R538	ERDS1FVJ2R7T	2.7 1/2W	[M]
R539	ERDS1FVJ2R7T	2.7 1/2W	[M]
R540	ERDS1FVJ2R7T	2.7 1/2W	[M]
R541	ERDS1FVJ2R7T	2.7 1/2W	[M]
R542	ERDS2TJ472T	4.7K 1/4W	[M]
R543	ERDS2TJ2R2T	2.2 1/4W	[M]
R544	ERDS2TJ332T	3.3K 1/4W	[M]
R545	ERDS2TJ222T	2.2K 1/4W	[M]
R546	ERDS2TJ151T	150 1/4W	[M]
R547	ERDS1FVJ270T	27 1/2W	[M]
R548	ERDS1FVJ150T	15 1/2W	[M]
R549	ERD2FCVG120T	12 1/4W	[M]
R550	ERDS1FVJ150T	15 1/2W	[M]
R552	ERDS2TJ332T	3.3K 1/4W	[M]
R553	ERDS2TJ101T	100 1/4W	[M]
R554	ERDS2TJ222T	2.2K 1/4W	[M]
R555	ERDS2TJ392T	3.9K 1/4W	[M]
R556	ERDS2TJ103T	10K 1/4W	[M]
R557	ERDS2TJ331T	330 1/4W	[M]
R558	ERDS2TJ2R2T	2.2 1/4W	[M]
R559	ERDS2TJ2R2T	2.2 1/4W	[M]
R560	ERDS2TJ2R2T	2.2 1/4W	[M]
R561	ERDS2TJ122T	1.2K 1/4W	[M]
R562	ERDS2TJ103T	10K 1/4W	[M]
R563	ERDS2TJ331T	330 1/4W	[M]
R564	ERDS1FVJ331T	330 1/2W	[M]
R565	ERDS1FVJ331T	330 1/2W	[M]
R566	ERDS1FVJ331T	330 1/2W	[M]
R579	ERDS2TJ473T	47K 1/4W	[M]
R580	ERDS2TJ473T	47K 1/4W	[M]
R581	ERDS2TJ272T	2.7K 1/4W	[M]
R582	ERDS2TJ561T	560 1/4W	[M]
R583	ERDS2TJ272T	2.7K 1/4W	[M]
R584	ERDS2TJ103T	10K 1/4W	[M]
R586	ERDS2TJ331T	330 1/4W	[M]
R601	ERDS2TJ681T	680 1/4W	[M]
R602	ERDS2TJ106T	10M 1/4W	[M]
R603	ERDS2TJ334T	330K 1/4W	[M]
R604	ERDS2TJ472T	4.7K 1/4W	[M]
R605	ERDS2TJ472T	4.7K 1/4W	[M]
R606	ERDS2TJ103T	10K 1/4W	[M]
R607	ERDS2TJ223T	22K 1/4W	[M]
R608	ERDS2TJ471T	470 1/4W	[M]
R609	ERDS2TJ104T	100K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R610	ERDS2TJ473T	47K 1/4W	[M]
R611	ERDS2TJ102T	1K 1/4W	[M]
R612	ERDS2TJ474T	470K 1/4W	[M]
R613	ERDS2TJ472T	4.7K 1/4W	[M]
R614	ERDS2TJ680T	68 1/4W	[M]
R615	ERDS2TJ680T	68 1/4W	[M]
R616	ERDS2TJ104T	100K 1/4W	[M]
R617	ERDS2TJ104T	100K 1/4W	[M]
R618	ERDS2TJ104T	100K 1/4W	[M]
R619	ERDS2TJ104T	100K 1/4W	[M]
R620	ERDS2TJ104T	100K 1/4W	[M]
R621	ERDS2TJ104T	100K 1/4W	[M]
R622	ERDS2TJ104T	100K 1/4W	[M]
R623	ERDS2TJ104T	100K 1/4W	[M]
R624	ERDS2TJ104T	100K 1/4W	[M]
R625	ERDS2TJ104T	100K 1/4W	[M]
R626	ERDS2TJ104T	100K 1/4W	[M]
R627	ERDS2TJ104T	100K 1/4W	[M]
R628	ERDS2TJ102T	1K 1/4W	[M]
R629	ERDS2TJ102T	1K 1/4W	[M]
R630	ERDS2TJ101T	100 1/4W	[M]
R631	ERDS2TJ562T	5.6K 1/4W	[M]
R632	ERDS2TJ101T	100 1/4W	[M]
R633	ERDS2TJ101T	100 1/4W	[M]
R634	ERDS2TJ473T	47K 1/4W	[M]
R635	ERDS2TJ104T	100K 1/4W	[M]
R636	ERDS2TJ101T	100 1/4W	[M]
R637	ERDS2TJ392T	3.9K 1/4W	[M]
R638	ERDS2TJ103T	10K 1/4W	[M]
R639	ERDS2TJ681T	680 1/4W	[M]
R640	ERDS2TJ102T	1K 1/4W	[M]
R641	ERDS2TJ223T	22K 1/4W	[M]
R642	ERDS2TJ101T	100 1/4W	[M]
R643	ERDS2TJ101T	100 1/4W	[M]
R644	ERDS2TJ101T	100 1/4W	[M]
R645	ERDS2TJ103T	10K 1/4W	[M]
R646	ERDS2TJ103T	10K 1/4W	[M]
R647	ERDS2TJ103T	10K 1/4W	[M]
R648	ERDS2TJ102T	1K 1/4W	[M]
R649	ERDS2TJ102T	1K 1/4W	[M]
R650	ERDS2TJ103T	10K 1/4W	[M]
R651	ERDS2TJ103T	10K 1/4W	[M]
R652	ERDS2TJ222T	2.2K 1/4W	[M]
R653	ERDS2TJ103T	10K 1/4W	[M]
R654	ERDS2TJ223T	22K 1/4W	[M]
R655	ERDS2TJ473T	47K 1/4W	[M]
R656	ERDS2TJ221T	220 1/4W	[M]
R657	ERDS2TJ221T	220 1/4W	[M]
R658	ERDS2TJ103T	10K 1/4W	[M]
R659	ERDS2TJ473T	47K 1/4W	[M]
R660	ERDS2TJ473T	47K 1/4W	[M]
R661	ERDS2TJ473T	47K 1/4W	[M]
R663	ERDS2TJ223T	22K 1/4W	[M]
R664	ERDS2TJ223T	22K 1/4W	[M]
R665	ERDS2TJ472T	4.7K 1/4W	[M]
R666	ERDS2TJ102T	1K 1/4W	[M]
R667	ERDS2TJ102T	1K 1/4W	[M]
R668	ERDS2TJ102T	1K 1/4W	[M]
R670	ERDS2TJ104T	100K 1/4W	[M]
R671	ERDS2TJ473T	47K 1/4W	[M]
R672	ERDS2TJ473T	47K 1/4W	[M]
R673	ERDS2TJ104T	100K 1/4W	[M]
R674	ERDS2TJ332T	3.3K 1/4W	[M]
R675	ERDS2TJ104T	100K 1/4W	[M]
R676	ERDS2TJ102T	1K 1/4W	[M]
R677	ERDS2TJ102T	1K 1/4W	[M]
R678	ERDS2TJ122T	1.2K 1/4W	[M]
R679	ERDS2TJ182T	1.8K 1/4W	[M]
R680	ERDS2TJ222T	2.2K 1/4W	[M]
R681	ERDS2TJ272T	2.7K 1/4W	[M]
R682	ERDS2TJ472T	4.7K 1/4W	[M]
R683	ERDS2TJ103T	10K 1/4W	[M]
R684	ERDS2TJ103T	10K 1/4W	[M]
R685	ERDS2TJ271T	270 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R686	ERDS2TJ271T	270 1/4W	[M]
R687	ERDS2TJ271T	270 1/4W	[M]
R688	ERDS2TJ104T	100K 1/4W	[M]
R689	ERDS2TJ473T	47K 1/4W	[M]
R690	ERDS2TJ473T	47K 1/4W	[M]
R698	ERDS2TJ682T	6.8K 1/4W	[M]
R699	ERDS2TJ470T	47 1/4W	[M]
R701	ERJ3GEYJ4R7V	4.7 1/16W	[M]
R702	ERJ3GEYJ103V	10K 1/16W	[M]
R704	ERJ3GEYJ102V	1K 1/16W	[M]
R705	ERJ3GEYJ154V	150K 1/16W	[M]
R706	ERJ3GEYJ102V	1K 1/16W	[M]
R707	ERJ3GEYJ393V	39K 1/16W	[M]
R708	ERJ3GEYJ223V	22K 1/16W	[M]
R709	ERJ3GEYJ333V	33K 1/16W	[M]
R711	ERJ3GEYJ124V	120K 1/16W	[M]
R712	ERJ3GEYJ471V	470 1/16W	[M]
R713	ERJ3GEYJ101V	100 1/16W	[M]
R714	ERJ3GEYJ121V	120 1/16W	[M]
R715	ERJ3GEYJ102V	1K 1/16W	[M]
R716	ERJ6GEYJ100V	10 1/10W	[M]
R717	ERJ3GEYJ101V	100 1/16W	[M]
R718	ERJ3GEYJ101V	100 1/16W	[M]
R721	ERJ3GEYJ101V	100 1/16W	[M]
R723	ERJ3GEYJ682V	6.8K 1/16W	[M]
R724	ERJ6GEYJ183V	18K 1/10W	[M]
R725	ERJ3GEYJ391V	390 1/16W	[M]
R727	ERJ3GEYJ682V	6.8K 1/16W	[M]
R728	ERJ3GEYJ392V	3.9K 1/16W	[M]
R729	ERJ3GEYJ392V	3.9K 1/16W	[M]
R731	ERJ6GEYJ682V	6.8K 1/10W	[M]
R735	ERJ6GEYJ101V	100 1/10W	[M]
R736	ERJ3GEYJ100V	10 1/16W	[M]
R741	ERJ3GEYJ473V	47K 1/16W	[M]
R742	ERJ3GEYJ224V	220K 1/16W	[M]
R744	ERJ3GEYJ124V	120K 1/16W	[M]
R749	ERJ3GEYJ472V	4.7K 1/16W	[M]
R750	ERJ8GEYJ5R6V	5.6 1/8W	[M]
R753	ERJ3GEYJ100V	10 1/16W	[M]
R801	ERJ3GEYJ472V	4.7K 1/16W	[M]
R802	ERJ3GEYJ103V	10K 1/16W	[M]
R803	ERJ3GEYJ472V	4.7K 1/16W	[M]
R804	ERJ3GEYJ103V	10K 1/16W	[M]
R805	ERJ3GEYJ472V	4.7K 1/16W	[M]
R806	ERJ3GEYJ103V	10K 1/16W	[M]
R807	ERJ3GEYJ472V	4.7K 1/16W	[M]
R808	ERJ3GEYJ103V	10K 1/16W	[M]
R809	ERJ3GEYJ472V	4.7K 1/16W	[M]
R810	ERJ3GEYJ103V	10K 1/16W	[M]
R811	ERJ3GEYJ223V	22K 1/16W	[M]
R812	ERJ3GEYJ223V	22K 1/16W	[M]
R813	ERJ3GEYJ472V	4.7K 1/16W	[M]
R814	ERJ3GEYJ103V	10K 1/16W	[M]
R815	ERJ3GEYJ103V	10K 1/16W	[M]
R816	ERJ3GEYJ103V	10K 1/16W	[M]
R817	ERJ3GEYJ103V	10K 1/16W	[M]
R818	ERJ3GEYJ103V	10K 1/16W	[M]
R819	ERJ3GEYJ473V	47K 1/16W	[M]
R820	ERJ3GEYJ223V	22K 1/16W	[M]
R821	ERJ3GEYJ473V	47K 1/16W	[M]
R822	ERJ3GEYJ472V	4.7K 1/16W	[M]
R823	ERJ3GEYJ103V	10K 1/16W	[M]
R824	ERJ3GEYJ103V	10K 1/16W	[M]
R825	ERJ3GEYJ103V	10K 1/16W	[M]
R826	ERJ3GEYJ103V	10K 1/16W	[M]
R827	ERJ3GEYJ102V	1K 1/16W	[M]
R828	ERJ3GEYJ103V	10K 1/16W	[M]
R829	ERJ3GEYJ472V	4.7K 1/16W	[M]
R830	ERJ3GEYJ102V	1K 1/16W	[M]
R831	ERJ3GEYJ101V	100 1/16W	[M]
R832	ERJ3GEYJ101V	100 1/16W	[M]
R833	ERJ3GEYJ101V	100 1/16W	[M]
R834	ERJ3GEYJ101V	100 1/16W	[M]
R835	ERJ3GEYJ101V	100 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R836	ERJ3GEYJ101V	100 1/16W	[M]
R837	ERJ3GEYJ102V	1K 1/16W	[M]
R838	ERJ3GEYJ101V	100 1/16W	[M]
R839	ERJ3GEYJ102V	1K 1/16W	[M]
R840	ERJ3GEYJ102V	1K 1/16W	[M]
R841	ERJ3GEYJ102V	1K 1/16W	[M]
R842	ERJ3GEYJ102V	1K 1/16W	[M]
R843	ERJ3GEYJ102V	1K 1/16W	[M]
R844	ERJ3GEYJ102V	1K 1/16W	[M]
R845	ERJ3GEYJ102V	1K 1/16W	[M]
R846	ERJ3GEYJ102V	1K 1/16W	[M]
R847	ERJ3GEYJ102V	1K 1/16W	[M]
R848	ERJ3GEYJ102V	1K 1/16W	[M]
R849	ERJ3GEYJ221V	220 1/16W	[M]
R850	ERJ3GEYJ101V	100 1/16W	[M]
R851	ERJ3GEYJ101V	100 1/16W	[M]
R852	ERJ3GEYJ101V	100 1/16W	[M]
R853	ERJ3GEYJ182V	1.8K 1/16W	[M]
R854	ERJ3GEYJ103V	10K 1/16W	[M]
R855	ERJ3GEYJ101V	100 1/16W	[M]
R856	ERJ3GEYJ152V	1.5K 1/16W	[M]
R857	ERJ3GEYJ102V	1K 1/16W	[M]
R858	ERJ3GEYJ102V	1K 1/16W	[M]
R861	ERJ3GEYJ102V	1K 1/16W	[M]
R862	ERJ3GEYJ101V	100 1/16W	[M]
R863	ERJ3GEYJ472V	4.7K 1/16W	[M]
R864	ERJ3GEYJ472V	4.7K 1/16W	[M]
R865	ERJ3GEYJ101V	100 1/16W	[M]
R866	ERJ3GEYJ473V	47K 1/16W	[M]
R869	ERJ3GEYJ101V	100 1/16W	[M]
R870	ERJ3GEYJ101V	100 1/16W	[M]
R871	ERJ3GEYJ101V	100 1/16W	[M]
R872	ERJ3GEYJ101V	100 1/16W	[M]
R873	ERJ3GEYJ101V	100 1/16W	[M]
R874	ERJ3GEYJ101V	100 1/16W	[M]
R875	ERJ3GEYJ472V	4.7K 1/16W	[M]
R876	ERJ3GEYJ472V	4.7K 1/16W	[M]
R877	ERJ3GEYJ472V	4.7K 1/16W	[M]
R878	ERJ3GEYJ472V	4.7K 1/16W	[M]
R879	ERJ3GEYJ472V	4.7K 1/16W	[M]
R880	ERJ3GEYJ473V	47K 1/16W	[M]
R881	ERJ3GEYJ472V	4.7K 1/16W	[M]
R882	ERJ3GEYJ104V	100K 1/16W	[M]
R883	ERJ3GEYJ473V	47K 1/16W	[M]
R884	ERJ3GEYJ223V	22K 1/16W	[M]
R885	ERJ3GEYJ102V	1K 1/16W	[M]
R886	ERJ3GEYJ103V	10K 1/16W	[M]
R893	ERJ3GEYJ473V	47K 1/16W	[M]
R894	ERJ3GEYJ101V	100 1/16W	[M]
R896	ERJ3GEYJ103V	10K 1/16W	[M]
R897	ERJ3GEYJ101V	100 1/16W	[M]
R898	ERJ3GEYJ103V	10K 1/16W	[M]
R899	ERJ3GEYJ101V	100 1/16W	[M]
R901	ERDS2TJ681T	680 1/4W	[M]
R902	ERDS2TJ681T	680 1/4W	[M]
R910	ERDS2TJ102T	1K 1/4W	[M]
R911	ERDS2TJ102T	1K 1/4W	[M]
R912	ERDS2TJ122T	1.2K 1/4W	[M]
R913	ERDS2TJ182T	1.8K 1/4W	[M]
R914	ERDS2TJ102T	1K 1/4W	[M]
R915	ERDS2TJ102T	1K 1/4W	[M]
R916	ERDS2TJ122T	1.2K 1/4W	[M]
R917	ERDS2TJ182T	1.8K 1/4W	[M]
R918	ERDS2TJ222T	2.2K 1/4W	[M]
R919	ERDS2TJ272T	2.7K 1/4W	[M]
R920	ERDS2TJ472T	4.7K 1/4W	[M]
R922	ERDS2TJ221T	220 1/4W	[M]
R924	ERDS2TJ271T	270 1/4W	[M]
R925	ERDS2TJ271T	270 1/4W	[M]
R945	ERDS2TJ102T	1K 1/4W	[M]
R946	ERDS2TJ102T	1K 1/4W	[M]
R947	ERDS2TJ474T	470K 1/4W	[M]
R948	ERDS2TJ103T	10K 1/4W	[M]
R949	ERDS2TJ102T	1K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R950	ERDS2TJ102T	1K 1/4W	[M]
R951	ERDS2TJ151T	150 1/4W	[M]
R952	ERDS1FVJ220T	22 1/2W	[M]
R952	ERDS2TJ821T	820 1/4W	[M]
R953	ERDS1FVJ180T	18 1/2W	[M]
R953	ERDS2TJ393T	39K 1/4W	[M]
R954	ERDS1FVJ120T	12 1/2W	[M]
R958	ERD2FCVJ4R7T	4.7 1/4W	[M]
R959	ERDS2TJ472T	4.7K 1/4W	[M]
R960	ERDS2TJ151T	150 1/4W	[M]
R961	ERDS2TJ332T	3.3K 1/4W	[M]
R964	ERC12UGK335D	3.3M 1/2W	[M]
R972	ERDS2TJ821T	820 1/4W	[M]
R973	ERDS2TJ393T	39K 1/4W	[M]
R982	ERDS1FVJ100T	10 1/2W	[M]
R983	ERDS1FVJ100T	10 1/2W	[M]
R984	ERDS1FVJ100T	10 1/2W	[M]
R985	ERDS1FVJ100T	10 1/2W	[M]
R1000	ERJ3GEYJ103V	10K 1/16W	[M]
R1001	ERJ3GEYJ1R0V	1 1/16W	[M]
R1001	ERJ3GEYJ681V	680 1/16W	[M]
R1002	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1003	ERJ3GEYJ103V	10K 1/16W	[M]
R1004	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1004	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1005	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1006	ERJ3GEYJ102V	1K 1/16W	[M]
R1006	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1007	ERD25FVJ4R7T	4.7 1/4W	[M]
R1008	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1009	ERJ3GEYJ183V	18K 1/16W	[M]
R1010	ERJ3GEYJ183V	18K 1/16W	[M]
R1011	ERJ3GEYJ103V	10K 1/16W	[M]
R1012	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1013	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1014	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1015	ERJ3GEYJ470V	47 1/16W	[M]
R1016	ERJ3GEYJ470V	47 1/16W	[M]
R1017	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1018	ERJ3GEYJ392V	3.9K 1/16W	[M]
R1019	ERJ3GEYJ392V	3.9K 1/16W	[M]
R1020	ERJ3GEYJ470V	47 1/16W	[M]
R1022	ERJ3GEYJ103V	10K 1/16W	[M]
R1024	ERJ3GEYJ563V	56K 1/16W	[M]
R1026	ERJ3GEYJ102V	1K 1/16W	[M]
R1027	ERJ3GEYJ104V	100K 1/16W	[M]
R1028	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1029	ERJ3GEYJ475V	4.7M 1/16W	[M]
R1030	ERJ3GEYJ101V	100 1/16W	[M]
R1031	ERJ3GEYJ273V	27K 1/16W	[M]
R1032	ERJ3GEYJ103V	10K 1/16W	[M]
R1035	ERJ3GEYJ103V	10K 1/16W	[M]
R1036	ERJ3GEYJ470V	47 1/16W	[M]
R1037	ERJ3GEYJ104V	100K 1/16W	[M]
R1038	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1039	ERJ3GEYJ153V	15K 1/16W	[M]
R1040	ERJ3GEYJ563V	56K 1/16W	[M]
R1045	ERJ3GEYJ104V	100K 1/16W	[M]
R1046	ERJ3GEYJ104V	100K 1/16W	[M]
R1047	ERJ3GEYJ102V	1K 1/16W	[M]
R1048	ERJ3GEYJ102V	1K 1/16W	[M]
R1049	ERJ3GEYJ105V	1M 1/16W	[M]
R1050	ERJ3GEYJ100V	10 1/16W	[M]
R1050	ERJ3GEYJ105V	1M 1/16W	[M]
R1051	ERJ3GEYJ221V	220 1/16W	[M]
R1052	ERJ3GEYJ221V	220 1/16W	[M]
R1053	ERJ3GEYJ681V	680 1/16W	[M]
R1054	ERJ3GEYJ681V	680 1/16W	[M]
R1055	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1056	ERJ3GEYJ221V	220 1/16W	[M]
R1057	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1058	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1059	ERJ3GEYJ103V	10K 1/16W	[M]
R1060	ERJ3GEYJ391V	390 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1061	ERJ3GEYJ2R7V	2.7 1/16W	[M]
R1062	ERJ3GEYJ2R7V	2.7 1/16W	[M]
R1063	ERJ3GEYJ102V	1K 1/16W	[M]
R1064	ERJ3GEYJ102V	1K 1/16W	[M]
R1065	ERJ3GEYJ102V	1K 1/16W	[M]
R1066	ERJ3GEYJ102V	1K 1/16W	[M]
R1075	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1076	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1079	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1080	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1084	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1085	ERJ3GEYJ473V	47K 1/16W	[M]
R1086	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1087	ERJ3GEYJ473V	47K 1/16W	[M]
R1088	ERJ3GEYJ223V	22K 1/16W	[M]
R1089	ERJ3GEYJ223V	22K 1/16W	[M]
R1090	ERJ3GEYJ221V	220 1/16W	[M]
R1091	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1092	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1093	ERJ3GEYJ102V	1K 1/16W	[M]
R1094	ERJ3GEYJ102V	1K 1/16W	[M]
R1095	ERJ3GEYJ104V	100K 1/16W	[M]
R1096	ERJ3GEYJ104V	100K 1/16W	[M]
R1097	ERJ3GEYJ103V	10K 1/16W	[M]
R1098	ERJ3GEYJ103V	10K 1/16W	[M]
R1099	ERJ6GEY0R00V	0 1/10W	[M]
R1100	ERJ6GEY0R00V	0 1/10W	[M]
R1101	ERJ6GEY0R00V	0 1/10W	[M]
R1102	ERJ6GEY0R00V	0 1/10W	[M]
R1103	ERJ6GEY0R00V	0 1/10W	[M]
R1104	ERJ6GEY0R00V	0 1/10W	[M]
R1105	ERJ6GEY0R00V	0 1/10W	[M]
		CAPACITORS	
C1	ECBT1H5R6KC5	5.6P 50V	[M]
C1	ECEA1CKA101B	100 16V	[M]
C2	ECBT1E103ZF5	0.01 25V	[M]
C2	RCBS1H102KBY	1000P 50V	[M]
C3	ECBT1H2R2KC5	2.2P 50V	[M]
C4	ECBT1H181KB5	180P 50V	[M]
C5	ECBT1H5R6KC5	5.6P 50V	[M]
C6	ECBT1H3R3KC5	3.3P 50V	[M]
C7	ECBT1H4R7KC5	4.7P 50V	[M]
C8	ECBT1H3R3KC5	3.3P 50V	[M]
C9	ECBT1H2R2KC5	2.2P 50V	[M]
C10	ECBT1H180JC5	18P 50V	[M]
C11	RCBS1H102KBY	1000P 50V	[M]
C101	ECUV1E103KBV	0.01 25V	[M]
C102	ECEA1CKA100B	10 16V	[M]
C103	ECUV1E103KBV	0.01 25V	[M]
C104	ECUV1H102KBV	1000P 50V	[M]
C106	ECUV1E103KBV	0.01 25V	[M]
C107	ECUV1E473ZFV	0.047 25V	[M]
C108	ECUV1H080DCV	8P 50V	[M]
C109	ECUV1H102KBV	1000P 50V	[M]
C110	ECUV1E103KBV	0.01 25V	[M]
C111	ECEA1HKA4R7B	4.7 50V	[M]
C112	ECUV1E103KBV	0.01 25V	[M]
C113	ECUV1H102KBV	1000P 50V	[M]
C114	ECEA1HKA3R3B	3.3 50V	[M]
C115	ECEA1HKA4R7B	4.7 50V	[M]
C116	ECUV1C333KBV	0.033 16V	[M]
C117	ECUV1E103KBV	0.01 25V	[M]
C118	ECUV1E103KBV	0.01 25V	[M]
C119	ECQP2A681JZT	680P 100V	[M]
C120	ECEA1CKA100B	10 16V	[M]
C121	ECEA1HKAR47B	0.47 50V	[M]
C122	ECEA1HKA010B	1 50V	[M]
C123	ECEA1HKA010B	1 50V	[M]
C124	ECUV1H101KCV	100P 50V	[M]
C125	ECEA1CKA220B	22 16V	[M]
C126	ECUV1C105ZFN	10 16V	[M]
C127	ECEA1CKA220B	22 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C129	ECEA0JKA101B	100 6.3V	[M]
C130	ECEA0JKA101B	100 6.3V	[M]
C131	ECUV1H151JCV	150P 50V	[M]
C132	ECUV1H102KBV	1000P 50V	[M]
C133	ECUV1H270JCV	27P 50V	[M]
C134	ECUV1H270JCV	27P 50V	[M]
C136	ECUV1H102KBV	1000P 50V	[M]
C137	ECUV1H332KBV	3300P 50V	[M]
C138	ECUV1E103KBV	0.01 25V	[M]
C139	ECEA1HKA4R7B	4.7 50V	[M]
C141	ECEA1HKA010B	1 50V	[M]
C142	ECEA1HKA010B	1 50V	[M]
C143	ECUV1H682KBV	6800P 50V	[M]
C144	ECUV1H682KBV	6800P 50V	[M]
C147	ECUV1H102KBV	1000P 50V	[M]
C148	ECUV1E103KBV	0.01 25V	[M]
C149	ECUV1C104ZFV	0.1 16V	[M]
C201	ECUV1H681KBV	680P 50V	[M]
C202	ECUV1H101KCV	100P 50V	[M]
C203	ECUV1H222KBV	2200P 50V	[M]
C204	ECEA1CKA100B	10 16V	[M]
C205	ECEA1HKA010B	1 50V	[M]
C206	ECEA1HKA010B	1 50V	[M]
C207	ECEA1HKAR22B	0.22 50V	[M]
C208	ECEA1CKA100B	10 16V	[M]
C209	ECEA1HKA2R2B	2.2 50V	[M]
C210	ECEA1HKA2R2B	2.2 50V	[M]
C211	ECEA1HKA2R2B	2.2 50V	[M]
C212	ECEA1HKA4R7B	4.7 50V	[M]
C214	ECEA1CKA100B	10 16V	[M]
C215	ECUV1C104KBV	0.1 16V	[M]
C216	ECEA1HKAR33B	0.33 50V	[M]
C217	ECEA1HKAR33B	0.33 50V	[M]
C218	ECUV1C104KBV	0.1 16V	[M]
C219	ECUV1C104KBV	0.1 16V	[M]
C220	ECUV1H182KBV	1800P 50V	[M]
C221	ECEA1HKA2R2B	2.2 50V	[M]
C222	ECEA1CKA100B	10 16V	[M]
C223	ECUV1E103KBV	0.01 25V	[M]
C224	ECUV1H473KBV	0.047 50V	[M]
C225	ECUV1H101KCV	100P 50V	[M]
C226	ECEA1HKAR68B	0.68 50V	[M]
C227	ECUV1H101KCV	100P 50V	[M]
C228	ECUV1H470JCV	47P 50V	[M]
C229	ECEA1CKA100B	10 16V	[M]
C230	ECEA1CKA100B	10 16V	[M]
C231	ECUV1H102KBV	1000P 50V	[M]
C232	ECEA1HKAR33B	0.33 50V	[M]
C233	ECUV1H102KBV	1000P 50V	[M]
C234	ECUV1H682KBV	6800P 50V	[M]
C235	ECUV1H682KBV	6800P 50V	[M]
C236	ECEA1HKA010B	1 50V	[M]
C237	ECUV1H472KBV	4700P 50V	[M]
C238	ECUV1H182KBV	1800P 50V	[M]
C240	ECEA1HKAR22B	0.22 50V	[M]
C241	ECUV1C393KBV	0.039 16V	[M]
C242	ECUV1H682KBV	6800P 50V	[M]
C303	ECUV1H102KBV	1000P 50V	[M]
C304	ECUV1E103KBV	0.01 25V	[M]
C305	ECEA1CKA100B	10 16V	[M]
C306	ECEA1CKA100B	10 16V	[M]
C307	ECUV1H101KCV	100P 50V	[M]
C308	ECUV1H101KCV	100P 50V	[M]
C309	ECA1AM221B	220 10V	[M]
C310	ECEA1AKN100B	10 10V	[M]
C311	ECEA1CKA330B	33 16V	[M]
C318	ECUV1E103KBV	0.01 25V	[M]
C319	ECUV1E103KBV	0.01 25V	[M]
C320	ECUV1C474ZFV	0.47 16V	[M]
C321	ECUV1C104KBV	0.1 16V	[M]
C322	ECUV1C104KBV	0.1 16V	[M]
C333	ECKR1H102ZF5	1000P 50V	[M]
C336	ECUV1E103KBV	0.01 25V	[M]
C370	ECUV1E103KBV	0.01 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C371	ECUV1C104KBV	0.1 16V	[M]
C372	ECA1CM221B	220 16V	[M]
C373	RCE1HKN100BG	10P 50V	[M]
C374	ECEA1CKA330B	33 16V	[M]
C375	ECEA1HM101B	100 50V	[M]
C376	ECUV1E103KBV	0.01 25V	[M]
C377	ECUV1E103KBV	0.01 25V	[M]
C378	ECEA1CKA100B	10 16V	[M]
C401	ECUV1H681KBV	680P 50V	[M]
C402	ECUV1H101KCV	100P 50V	[M]
C403	ECUV1H222KBV	2200P 50V	[M]
C404	ECEA1CKA100B	10 16V	[M]
C405	ECEA1HKA010B	1 50V	[M]
C406	ECEA1HKA010B	1 50V	[M]
C407	ECEA1HKAR22B	0.22 50V	[M]
C408	ECEA1CKA100B	10 16V	[M]
C409	ECEA1HKA2R2B	2.2 50V	[M]
C410	ECEA1HKA2R2B	2.2 50V	[M]
C411	ECEA1HKA2R2B	2.2 50V	[M]
C412	ECEA1HKA4R7B	4.7 50V	[M]
C414	ECEA1CKA100B	10 16V	[M]
C415	ECUV1C104KBV	0.1 16V	[M]
C416	ECEA1HKAR33B	0.33 50V	[M]
C417	ECEA1HKAR33B	0.33 50V	[M]
C418	ECUV1C104KBV	0.1 16V	[M]
C419	ECUV1C104KBV	0.1 16V	[M]
C420	ECUV1H182KBV	1800P 50V	[M]
C421	ECEA1HKA2R2B	2.2 50V	[M]
C422	ECEA1CKA100B	10 16V	[M]
C423	ECUV1E103KBV	0.01 25V	[M]
C424	ECUV1H473KBV	0.047 50V	[M]
C425	ECUV1H101KCV	100P 50V	[M]
C426	ECEA1HKAR68B	0.68 50V	[M]
C427	ECUV1H101KCV	100P 50V	[M]
C428	ECUV1H470JCV	47P 50V	[M]
C429	ECEA1CKA100B	10 16V	[M]
C430	ECEA1CKA100B	10 16V	[M]
C431	ECUV1H102KBV	1000P 50V	[M]
C432	ECEA1HKAR33B	0.33 50V	[M]
C433	ECUV1H102KBV	1000P 50V	[M]
C434	ECUV1H682KBV	6800P 50V	[M]
C435	ECUV1H682KBV	6800P 50V	[M]
C436	ECEA1HKA010B	1 50V	[M]
C437	ECUV1H472KBV	4700P 50V	[M]
C438	ECUV1H182KBV	1800P 50V	[M]
C440	ECEA1HKAR22B	0.22 50V	[M]
C441	ECUV1C393KBV	0.039 16V	[M]
C442	ECUV1H682KBV	6800P 50V	[M]
C500	ECBT1H471KB5	470P 50V	[M]
C501	ECBT1H471KB5	470P 50V	[M]
C502	ECBT1H821KB5	820P 50V	[M]
C503	ECBT1H821KB5	820P 50V	[M]
C504	ECEA2AU100B	10 100V	[M]
C505	ECEA1HKA010B	1 50V	[M]
C506	ECEA1HKA010B	1 50V	[M]
C507	ECEA2AU100B	10 100V	[M]
C508	ECBT1H150J5	15P 50V	[M]
C509	ECBT1H150J5	15P 50V	[M]
C510	ECBT1H103KB5	0.01 50V	[M]
C511	ECBT1H821KB5	820P 50V	[M]
C512	ECBT1H471KB5	470P 50V	[M]
C513	ECBT1H471KB5	470P 50V	[M]
C514	ECBT1H821KB5	820P 50V	[M]
C515	ECEA1HKA010B	1 50V	[M]
C516	ECQV1H184JL3	0.18 50V	[M]
C517	ECKR1H103MD5	0.01 50V	[M]
C518	ECA1EM101B	100 25V	[M]
C519	ECKR1H103MD5	0.01 50V	[M]
C520	ECKR1H103MD5	0.01 50V	[M]
C521	ECEA1CKA101B	100 16V	[M]
C522	ECKR1H103MD5	0.01 50V	[M]
C524	ECKR1H103MD5	0.01 50V	[M]
C525	ECEA1AKA330B	33 10V	[M]
C526	ECKR1H103MD5	0.01 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C527	ECEA1EKA330B	33 25V	[M]
C528	RCEA1H222B-S	2200P 50V	[M] ⚠
C529	RCEA1H222B-S	2200P 50V	[M] ⚠
C530	ECEA0JKA221B	220 6.3V	[M]
C531	ECEA1HKA010B	1 50V	[M]
C532	ECEA2AU100B	10 100V	[M]
C533	ECBT1H150J5	15P 50V	[M]
C534	ECBT1H150J5	15P 50V	[M]
C535	ECEA2AU100B	10 100V	[M]
C536	ECBT1H103KB5	0.01 50V	[M]
C537	ECEA1HKA2R2B	2.2 50V	[M]
C538	ECEA1CKA100B	10 16V	[M]
C539	ECEA1EM101B	100 25V	[M]
C540	ECEA1CKA100B	10 16V	[M]
C547	ECBT1H102KB5	1000P 50V	[M]
C600	ECEA0JKA101B	100 6.3V	[M]
C601	ECBT1H104ZF5	0.1 50V	[M]
C602	ECBT1E103ZF5	0.01 25V	[M]
C603	ECBT1H331KB5	330P 50V	[M]
C604	RCE1AM102B	1000P 10V	[M]
C605	ECBT1H102KB5	1000P 50V	[M]
C607	ECBT1H561KB5	560P 50V	[M]
C608	ECBT1H561KB5	560P 50V	[M]
C609	ECBT1H561KB5	560P 50V	[M]
C610	ECBT1H561KB5	560P 50V	[M]
C611	ECBT1H561KB5	560P 50V	[M]
C612	ECBT1H561KB5	560P 50V	[M]
C613	ECBT1H561KB5	560P 50V	[M]
C614	ECBT1H561KB5	560P 50V	[M]
C616	ECBT1H561KB5	560P 50V	[M]
C617	ECBT1H561KB5	560P 50V	[M]
C618	ECBT1E103ZF5	0.01 25V	[M]
C619	ECEA1AKA220B	22 10V	[M]
C620	ECBT1H680J5	68P 50V	[M]
C621	ECBT1H680J5	68P 50V	[M]
C622	ECBT1H150JC5	15P 50V	[M]
C623	ECBT1H180JC5	18P 50V	[M]
C624	ECBT1H560J5	56P 50V	[M]
C625	ECBT1H102KB5	1000P 50V	[M]
C626	ECBT1H560J5	56P 50V	[M]
C627	ECBT1H102KB5	1000P 50V	[M]
C628	ECBT1E223ZF5	0.022 25V	[M]
C629	ECBT1H331KB5	330P 50V	[M]
C639	ECEA1HKA3R3B	3.3 50V	[M]
C640	ECEA1VKA220B	22 35V	[M]
C641	ECEA1VKA220B	22 35V	[M]
C642	ECBT1H101KB5	100P 50V	[M]
C643	ECBT1H101KB5	100P 50V	[M]
C644	ECEA1HKA010B	1 50V	[M]
C645	ECEA1HKA2R2B	2.2 50V	[M]
C646	ECBT1H330J5	33P 50V	[M]
C647	ECBT1H330J5	33P 50V	[M]
C649	ECBT1H331KB5	330P 50V	[M]
C651	ECBT1H103KB5	0.01 50V	[M]
C652	ECBT1H103KB5	0.01 50V	[M]
C653	ECBT1H101KB5	100P 50V	[M]
C654	ECBT1H101KB5	100P 50V	[M]
C655	ECBT1H102KB5	1000P 50V	[M]
C656	ECBT1E103ZF5	0.01 25V	[M]
C657	ECKR1H103ZF5	0.01 50V	[M]
C658	ECEA1VKA4R7B	4.7 35V	[M]
C669	ECEA0JKA470B	47 6.3V	[M]
C670	ECBT1H473KB5	0.047 50V	[M]
C671	ECBT1E223ZF5	0.022 25V	[M]
C672	ECBT1E223ZF5	0.022 25V	[M]
C701	ECEA0JKA330I	33 6.3V	[M]
C702	ECUVNC104KBV	0.1 16V	[M]
C703	ECEA0JKA101I	100 6.3V	[M]
C704	ECUVNC104KBV	0.1 16V	[M]
C706	ECUV1H272KBV	2700P 50V	[M]
C707	ECUV1E273KBV	0.027 25V	[M]
C710	ECUV1H121KCV	120P 50V	[M]
C711	ECUV1C104ZFV	0.1 16V	[M]
C712	ECUV1C104ZFV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C713	ECUVNC104KBV	0.1 16V	[M]
C714	ECEA0JKA101I	100 6.3V	[M]
C715	ECUV1H272KBV	2700P 50V	[M]
C716	ECUV1H122KBV	1200P 50V	[M]
C717	ECUV1C104ZFV	0.1 16V	[M]
C718	ECUVNJ474KBV	0.47 6.3V	[M]
C721	ECUV1H100DCV	10P 50V	[M]
C722	ECUV1H100DCV	10P 50V	[M]
C723	ECEA1AKA221I	220 10V	[M]
C724	ECUZNE104MBN	0.1 25V	[M]
C725	ECUV1H102KBV	1000P 50V	[M]
C726	ECUV1H102KBV	1000P 50V	[M]
C730	ECUV1C104ZFV	0.1 16V	[M]
C731	ECEA0JKA221I	220 6.3V	[M]
C732	ECEA0JKA221I	220 6.3V	[M]
C733	ECUVNC104KBV	0.1 16V	[M]
C734	ECEA1AKA221I	220 10V	[M]
C735	ECUV1C104ZFV	0.1 16V	[M]
C736	ECUVNC104ZFV	0.1 16V	[M]
C737	ECUVNC104ZFV	0.1 16V	[M]
C738	ECUV1H103KBN	0.01 50V	[M]
C739	ECUV1H152KBV	1500P 50V	[M]
C742	ECUV1E273KBV	0.027 25V	[M]
C743	ECUVNC104ZFV	0.1 16V	[M]
C744	ECUV1H223KBV	0.022 50V	[M]
C745	ECUV1H102KBV	1000P 50V	[M]
C747	ECUV1H181KCV	180P 50V	[M]
C749	ECUV1H182KBV	1800P 50V	[M]
C750	ECUZNE104MBN	0.1 25V	[M]
C751	ECUVNC104KBV	0.1 16V	[M]
C752	ECUV1H152KBV	1500P 50V	[M]
C753	ECUV1H471KBM	470P 50V	[M]
C770	ECUVNC104KBV	0.1 16V	[M]
C801	ECUV1H223KBV	0.022 50V	[M]
C802	ECUV1H331KBV	330P 50V	[M]
C803	ECUV1H102KBV	1000P 50V	[M]
C804	ECEA0JKA101B	100 6.3V	[M]
C805	ECEA1AKA101B	100 10V	[M]
C806	ECUV1H471KBV	470P 50V	[M]
C807	ECUV1H101KCV	100P 50V	[M]
C808	ECUV1H101KCV	100P 50V	[M]
C809	ECUV1H101KCV	100P 50V	[M]
C810	ECUV1H102KBV	1000P 50V	[M]
C811	ECUV1C474ZFV	0.47 16V	[M]
C812	ECUV1H100JCV	10P 50V	[M]
C814	ECUV1H100JCV	10P 50V	[M]
C815	ECUV1H100JCV	10P 50V	[M]
C816	ECUV1E103KBV	0.01 25V	[M]
C817	ECUV1H100JCV	10P 50V	[M]
C818	ECUV1H330JCV	33P 50V	[M]
C819	ECUV1H330JCV	33P 50V	[M]
C820	ECUV1C104KBV	0.1 16V	[M]
C822	ECEA0JKA101B	100 6.3V	[M]
C823	ECUV1H102KBV	1000P 50V	[M]
C824	ECEA0JKA101B	100 6.3V	[M]
C828	ECEA0JKA221B	220 6.3V	[M]
C829	ECEA1AKA101B	100 10V	[M]
C830	ECEA1AKA101B	100 10V	[M]
C831	EEUFC1A681LB	680 10V	[M]
C832	ECEA1HM101B	100 50V	[M]
C833	ECUV1A224KBV	0.22 10V	[M]
C950	RCA1CM102BT	1000P 16V	[M]
C951	RCA1CM102BT	1000P 16V	[M]
C952	ECKR1H103ZF5	0.01 50V	[M]
C953	ECKR1H103MD5	0.01 50V	[M]
C954	ECEA1AKA470B	47 10V	[M]
C955	ECQE1104KF3	0.1 100V	[M]
C956	ECKR1H103MD5	0.01 50V	[M]
C957	ECEA1JM101B	100 63V	[M]
C960	RCEA1E222B-S	2200P 25V	[M] ⚠
C961	ECA2AM100B	10 100V	[M]
C962	ECEA1HM101B	100 50V	[M]
C964	ECKR2H103ZF5	0.01 500V	[M]
C982	ECBT1H473KB5	0.047 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C983	ECBT1H473KB5	0.047 50V	[M]
C984	ECBT1H473KB5	0.047 50V	[M]
C985	ECBT1H473KB5	0.047 50V	[M]
C1000	ECUV1C473KBV	0.047 16V	[M]
C1001	ECUV1C104KBV	0.1 16V	[M]
C1001	ECUV1H103ZFV	0.01 50V	[M]
C1002	ECEA1HKN2R2B	2.2 50V	[M]
C1002	ECUV1C104KBV	0.1 16V	[M]
C1003	ECQP1152JZT	1500P 100V	[M]
C1003	ECUV1C104KBV	0.1 16V	[M]
C1004	ECUV1C104KBV	0.1 16V	[M]
C1005	ECUV1C104KBV	0.1 16V	[M]
C1006	ECEA1HKA010B	1 50V	[M]
C1006	ECUV1C104KBV	0.1 16V	[M]
C1007	ECQP2A472JZT	4700P 100V	[M]
C1007	ECUV1C104KBV	0.1 16V	[M]
C1008	ECEA1HKA010B	1 50V	[M]
C1008	ECUV1C104KBV	0.1 16V	[M]
C1009	ECEA1CKA470B	47 16V	[M]
C1009	ECUV1C104KBV	0.1 16V	[M]
C1010	ECA1EM101B	100 25V	[M]
C1010	ECUV1C104KBV	0.1 16V	[M]
C1011	ECQV1H473JL3	0.047 50V	[M]
C1011	ECUV1C223KBV	0.022 16V	[M]
C1012	ECUV1C223KBV	0.022 16V	[M]
C1012	ECUV1H102KBV	1000P 50V	[M]
C1013	ECUV1H102KBV	1000P 50V	[M]
C1014	ECUV1H102KBV	1000P 50V	[M]
C1015	ECUV1H102KBV	1000P 50V	[M]
C1016	ECUV1H222KBV	2200P 50V	[M]
C1017	ECUV1H222KBV	2200P 50V	[M]
C1018	ECUV1H103KBV	0.01 50V	[M]
C1019	ECUV1H102KBV	1000P 50V	[M]
C1020	ECUV1H471KBV	470P 50V	[M]
C1021	ECUV1H471KBV	470P 50V	[M]
C1022	ECUV1H102KBV	1000P 50V	[M]
C1023	ECUV1H102KBV	1000P 50V	[M]
C1026	ECEA0JKA470B	47 6.3V	[M]
C1027	ECUV1H102KBV	1000P 50V	[M]
C1030	ECEA1AKA101B	100 10V	[M]
C1031	ECEA1AKA101B	100 10V	[M]
C1032	ECFR1C183KR	0.018 16V	[M]
C1033	ECFR1C183KR	0.018 16V	[M]
C1034	ECEA1HKA3R3B	3.3 50V	[M]
C1035	ECEA1HKA3R3B	3.3 50V	[M]
C1036	ECUV1C333KBV	0.033 16V	[M]
C1037	ECEA1HKA3R3B	3.3 50V	[M]
C1038	ECUV1H221KBV	220P 50V	[M]
C1039	ECUV1H221KBV	220P 50V	[M]
C1040	ECEA1CKA100B	10 16V	[M]
C1041	ECEA1CKA100B	10 16V	[M]
C1042	ECEA1CKA220B	22 16V	[M]
C1043	ECEA1HKA4R7B	4.7 50V	[M]
C1044	ECEA1AKA330B	33 10V	[M]
C1045	ECEA1AKA220B	22 10V	[M]
C1046	ECEA1CKA221B	220 16V	[M]
C1047	ECEA1HKA010B	1 50V	[M]
C1048	ECEA1HKA010B	1 50V	[M]
C1049	ECUV1H102KBV	1000P 50V	[M]
C1050	ECUV1H102KBV	1000P 50V	[M]
C1051	ECEA1HKA010B	1 50V	[M]
C1052	ECEA1HKA010B	1 50V	[M]
C1053	ECEA1CKA221B	220 16V	[M]
C1054	ECEA1HKA3R3B	3.3 50V	[M]
C1055	ECEA1HKA0R1B	0.1 50V	[M]
C1059	ECUV1H101KCV	100P 50V	[M]
C1061	ECUV1H101KCV	100P 50V	[M]
C1062	ECUV1C104ZFV	0.1 16V	[M]
C1064	ECEA1HKA3R3B	3.3 50V	[M]
		CHIP JUMPER	
RJ701	ERJ3GEY0R00V	0 1/16W	[M]
RJ702	ERJ3GEY0R00V	0 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
RJ703	ERJ3GEY0R00V	0 1/16W	[M]
RJ705	ERJ3GEY0R00V	0 1/16W	[M]
RJ706	ERJ3GEY0R00V	0 1/16W	[M]
RJ707	ERJ3GEY0R00V	0 1/16W	[M]
RJ708	ERJ3GEY0R00V	0 1/16W	[M]
RJ709	ERJ3GEY0R00V	0 1/16W	[M]
RJ710	ERJ3GEY0R00V	0 1/16W	[M]
RJ711	ERJ3GEY0R00V	0 1/16W	[M]
RJ712	ERJ3GEY0R00V	0 1/16W	[M]
RJ713	ERJ3GEY0R00V	0 1/16W	[M]
RJ714	ERJ3GEY0R00V	0 1/16W	[M]
RJ715	ERJ3GEY0R00V	0 1/16W	[M]
RJ716	ERJ3GEY0R00V	0 1/16W	[M]
RJ731	ERJ6GEY0R00V	0 1/10W	[M]
RJ732	ERJ6GEY0R00V	0 1/10W	[M]
RJ733	ERJ6GEY0R00V	0 1/10W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
RJ734	ERJ6GEY0R00V	0 1/10W	[M]
RJ761	ERJ8GEY0R00V	0 1/8W	[M]
RJ762	ERJ8GEY0R00V	0 1/8W	[M]
RJ763	ERJ8GEY0R00V	0 1/8W	[M]
RJ764	ERJ8GEY0R00V	0 1/8W	[M]
RJ765	ERJ8GEY0R00V	0 1/8W	[M]
RJ767	ERJ8GEY0R00V	0 1/8W	[M]
RJ768	ERJ8GEY0R00V	0 1/8W	[M]
RJ769	ERJ8GEY0R00V	0 1/8W	[M]
RJ770	ERJ8GEY0R00V	0 1/8W	[M]
RJ771	ERJ8GEY0R00V	0 1/8W	[M]
		TEST JUMPER	
TJ701	EYF8CU	TEST JUMPER	[M]

20.5. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX0835	PACKING CASE	[M] P
P1	RPGX0836	PACKING CASE	[M] PC
P2	RPNX0135	POLYFOAM	[M]
P3	RPFX0007	MIRAMAT BAG	[M]
		ACCESSORIES	

Ref. No.	Part No.	Part Name & Description	Remarks
A1	N2QAGB000015	REMOTE CONTROL	[M]
A1-1	BBN11M202A	R/C BATTERY COVER	[M]
A2	RJA0065-1D	AC CORD	[M] ⚠
A3	RQT6085-2P	O/I BOOK	[M]
A3	RQT6086-1M	O/I BOOK	[M] P
A3	RQT6126-C	O/I BOOK	[M] PC
A4	RSA0006-J	FM ANTENNA	[M]
A5	RSA0033	AM LOOP ANTENNA	[M]

20.6. Packaging