# ORDER NO. AD9802038C1 rvice Manua





• MASH is a trademark of NTT.

Portable CD Player SL-SX500



#### Colour

(S) ..... Silver Type

#### **Areas**

P.....U.S.A. PC .....Canada.

Traverse Deck: RAE0145Z Mechanism Series

### **Specifications**

#### Audio

No. of channels: Output voltage: Frequency response:

S/N· Wow and flutter:

DA converter: Headphones output level: 2 channels (left and right, stereo) 0.6 V (50 kohm)

 $20 \sim 20,000 \text{ Hz } (+0.5 \text{ dB}, -1.5 \text{ dB})$ 

more than 96 dB\* Below measurable limit

1 bit, MASH \*

max. 9 mW+9 mW/16 ohm (variable)

Light source: Wavelength:

Semiconductor laser

780 nm

#### Play time

Pickup

(When used in hold mode, at 25 degree (77 fahrenheit) temperature and on flat and stable surface.)

Batteries used:

ANTI-SHOCK OFF/ON

2 Alkaline batteries : Rechargeable batteries : About 23h/ About 24h

4 Alkaline batteries :

About 11h/About 11.5h

2 Rechargeable and 2 Alkaline batteries:

About 50h/About 52h

About 33h/ About 34h

The play time may be less depending on the operating conditions.

#### General

Operation temperature range:

0 - 40 degree (32 - 104 fahrenheit)

**Rechargeable temperature range:** 5-40 degree (41-104 fahrenheit)

Power supply:

DC 4.5 V

#### Power consumption

Power source:

ANTI-SHOCK OFF/ON

When using AC adaptor:

2.0 W/2.4 W

When recharging:

Approx . 4.8 W

Dimensions:

128(Wide)/25.7(High)/134.5(Depth) mm (51/16"×1"×55/16")

Weight:

255 q (9.0 oz) without batteries 300 g (10.6 oz) with batteries

Recarging time:

About 3 h

\*These specifications were measured in the ANTI-SHOCK OFF mode.

Note: Specifications are subject to change without notice.

Weight and dimensions are approximate.

#### **△ WARNING**

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

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### Precaution of Laser Diode

**CAUTION:** 

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

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

### Accessories

• AC adaptor (RFEA415C-S) 1 pc.	
Stereo earphones (RFEV316P-K1S) 1 pc.	
Wired remote control (RFEV015PCKS) 1 pc.	
Battery case (RFA0627-K4) 1 pc.	

<ul> <li>Rechargeable Ni-Cd batteries</li> </ul>		
(RFKFP3GAVABA)	1	рс.
Battery carrying case (RFKNLS370-K)	1	рс.

### Power Supply Preparations

Refer to the specifications (cover page) for information on operating times when using rechargeable batteries or dry-cell batteries.

#### Using rechargeable batteries

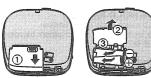
Make sure to recharge the batteries before using them. The unit cannot be used to charge rechargeable batteries other than those specifically designed for it.

Supplied batteries (P-3GAVA)

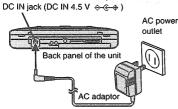
Optional batteries (P-3GAVA/2B, SH-CDB8D)

#### Recharging procedure

insert the special rechargeable batteries into the unit.



Connect the AC adaptor.



Recharging starts and a battery indicator appears on the display as shown below.



When the rechargeable batteries are fully recharged. the battery indicator disappears. (It takes approximately 3 hours to fully recharge the supplied rechargeable bat-

When recharging is complete, unplug the AC adaptor from the power outlet and the DC IN jack.

- Rechargeable batteries have a service life of approximately 300 charge-discharge cycles. If the operating time on one full charge becomes noticeably shorte than it used to be, the battery has reached the end of its service life and should be replaced.
- Recharging may only be performed when the unit is powered off. (It is not possible to recharge the batteries while playing a CD.)

  The AC adaptor and rechargeable batteries may be-
- come warm while recharging is in progress. This is not a malfunction.

#### If the battery lid comes loose Slide the lid back into place horizontally



#### Removing batteries Push up on the battery

in the direction indicated by the arrow. Then lift it out



#### Using the AC adaptor

Connect the AC adaptor supplied.

Refer to the step 2 in "Using rechargeable batteries" for connection instructions.

#### Using the car adaptor (not included)

Be sure to obtain the car adaptor (SH-CDC9), available as an optional accessory.

#### **CAUTION:**

Use only car adaptor, Model: SH-CDC9 manufactured by Matsushita Electric Industrial Co., Ltd.

The car adaptor can be used to recharge the unit's batteries while in the car.

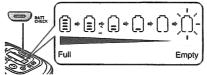
#### Using dry-cell batteries (not included)

After disconnecting the AC adaptor, insert two "AA" (LR6) alkaline batteries.

The procedure for inserting and removing dry-cell batteries is identical to that for rechargeable batteries.

#### Checking the battery condition

When the unit is off, pressing BATT CHECK causes the battery indicator to appear on the main unit's display for about a few seconds. (This works even if the unit is on hold.) The indicator is always on when the unit is operating



#### When the battery indicator flashes

Power is cut off a short while later. Recharge the rechargeable batteries or replace the dry cell batteries with new ones.

- •When the unit is used with a AC adaptor, the battery indicator is not displayed.
- The battery may temporarily show a lower level or otherwise not operate correctly when searching and skipping, and also if the unit is used in an extremely cold environment.
- The length of time the unit continues to operate after the battery indicator starts flashing depends on the
- type of batteries used.

  The battery indicator may not be displayed if rechargeable batteries other than those designated by Panasonic are used.

#### Using the battery case

The battery case allows you to extend the maximum playing time of the unit by loading an additional two "AA" (LR6) alkaline batteries.

#### Notes

- •When using the battery case, always insert batteries in the unit body as well. (The unit cannot be operated on the batteries in the external battery case alone.)
- Though you can use rechargeable batteries in the battery case, it does not recharge them. (Use dry cell batteries if possible.)
- When using rechargeable batteries in the unit body, and dry-cell batteries in the battery case, be sure to use fully charged rechargeable batteries and new drycell batteries.
- •When using four dry-cell batteries, do not mix new and old batteries
- Open the cover of the battery case



Mount the battery case on the unit body.

Insert the protrusions on the battery case into the four indentations in the unit body.



Secure in place with the screw.



Reverse the above procedure to remove the external battery case.

#### For your reference:

The maximum playing time will differ depending on the type of batteries (rechargeable/dry-cell) loaded in the

If the cover of the battery case comes loose:

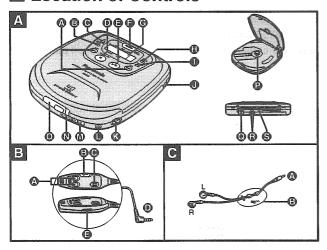
protrusions into the holes on either end of the lid.



If the unit malfunctions or freezes during use, then disconnect the power sources (the AC adaptor and batteries).

Re-connect the power source and continue operation.

### Location of Controls



### Portable CD player 🛭

- Skip/search buttons
- ( |◀◀, ▶▶| /◀◀, ▶▶) Memory/recall button ⅎ (MEMORY/RECALL)
- EQ button (EQ)
- Stop/power off button
- Play/pause button (▶ II)
- Battery check button (BATT CHECK)
- Display Anti-shock button (ANTI-SHOCK)
- Repeat button (REPEAT)
- Out jack (OUT)
- 0 Headphones volume control (VOLUME)
- Headphones jack (())
- Play mode selector (RESUME, NORMAL, RANDOM)

- M Hold switch (HOLD)
- Open switch (OPEN)
- CD release button (PUSH)
- DC in jack (DC IN 4.5 V ↔ - + ) Connection terminal for battery
- Hole for car mounting base/battery case

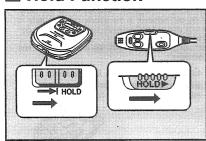
### Wired remote control B

- Skip/search buttons (+, -)
- (B) Hold switch (HOLD)
- Play/stop/off button
- Plug
- Volume control (VOL)

#### Stereo earphones @

- Plug
- Slider

#### Hold Function



This function causes the unit to ignore short, accidental button presses. (The disc lid can still be opened and

## The HOLD function prevents the follow-

- ing:

  Powering on the unit accidentally (which can cause the batteries to go dead).

The unit and wired remote control have HOLD switches, each of which works independently.

#### To use the HOLD function

Set the HOLD switch to the HOLD position.
(The buttons on the remote control cannot be operated if the switch is set to hold.)

" $h_0$  / d" **indication** When the unit is in HOLD status, pressing any button causes the indication " $h_0$  / d" to appear on the display.

#### When the unit is powered off

The "ho!d" indication appears only when ▶ II is

### Using the Remote Control

The remote control can be operated regardless of the hold mode of the unit.

#### Preparation:

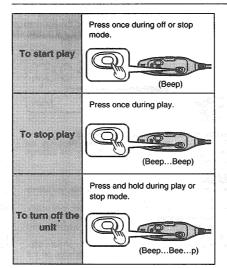
Release the remote control from the hold mode.

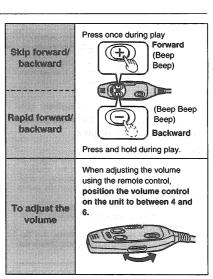


#### ■ Operation confirmation tones

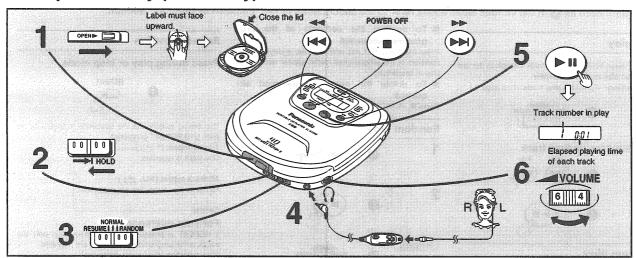
When an operation button is pressed, a confirmation tone sounds. Refer to the parentheses in the illustration for the different types of confirmation tones.

#### How to use the wired remote control





### Sequential Play (Basic Play)



#### Following steps 1-6.

In step 4, connect the stereo earphones to the  $\bigcap$  jack. (Plug in firmly)

- Play stops automatically when all the tracks have been played.
  If the unit has been connected to the car audio system, adjust the volume level between 4 and 6 on the unit, then adjust the volume level on the system.
- •See page 5 for remote control operations

Operation	Button	Display/reference
To pause play	Press during play	7 0:18
To stop play Stop mode	Press during play Power off	Total number of tracks  10 44:48  Total playing time
To turn off the unit Off mode	Press during stop mode Power off	
Skip forward/ backward (skip function)	Press during play  Backward Forward	During program play, these buttons are used to skip forward or back through the programmed sequence of tracks.  During random play, the skip buttons cannot be
Rapid forward/ backward (search function)	Keep depressed during play	used to skip back to tracks that were played previously in the random sequence.  • During program play, random play or 1 track repeat play, search operation is limited to the current track only.  (See page 4.)

#### For your reference

"no d / 5£" indication
This indication appears for about 30 seconds if ▶ II is pressed when no disc is loaded in the unit or if the disc is not completely seated.
"[P []" indication

This indication appears for about 10 minutes when the cover is opened. (However, the indication does not appear when the unit is powered off.)

#### Auto power off function

If the unit is left in stop or paused status for approximately 10 minutes, the unit powers itself off auto-matically in order to prevent the batteries from

(If no disc is loaded in the unit, it powers itself off in about 30 seconds.)

#### Removing discs

After the disc has stopped rotating, press the PUSH button to release the disc. (To protect the disc, never open the cover while it is playing.)



Note
Never insert foreign objects into the unit body.

### Other Play Methods

The letters such as (a) in the various illustrations refer to the descriptions in the "Location of Controls" section.

#### Skip play

The disc plays from a selected track through to the last track, then play stops automatically.

Preparation: Put unit in stop mode. (See page 3.)





2 Select the desired track



3



#### Program play

Up to 24 tracks can be entered in the program. **Preparation:** Put unit in stop mode. (See page 3.)

1





2 Select the desired track.



3 Register in sequence.

(The indication "M" and the programmed sequence appear on the display.)

₿



4 Repeat steps 2 and 3 to program all the desired tracks.

5





■ To program the same track in the sequence more than once

After step 3, press MEMORY/RECALL the desired number of times.

■ If " F" is displayed

No more tracks may be added to the sequence.

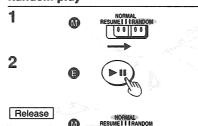
## ■ To confirm the contents of the programmed sequence

Press MEMORY/RECALL while the disc is playing. (The numbers of the programmed tracks appear on the display in sequence.)

■ To delete the entire programmed sequence

Press , POWER OFF.

#### Random play



#### For your reference:

•It is also possible to press the ►► while the unit is in stop status to change the first track to be played. (All tracks are played eventually, regardless of which is played first.)

Program play is not possible in the random mode.

#### Resume play

This function allows you to listen from the beginning of the track where play stopped because the unit was powered off (or switched to stop status). It is useful when listening to CDs in the car, etc.



Release



### For your reference:

- If the RESUME, NORMAL, RANDOM (play mode selector) switch is put in the RESUME position, the allrepeat function will be activated automatically as soon as the unit is powered on.
- If power is cut off near the end of a track (power off status), playback may resume from the beginning of the next track.
- •If the unit is powered off while a disc was playing and then a new disc is inserted, play will begin from the middle of the new disc because the unit remembers the position where play stopped on the previous disc.

#### Repeat function

Press during play or stop mode.





The setting switches in the sequence indicated below each time REPEAT is pressed.

1-track repeat (1 👝 )←

One track is repeated.

All-track repeat (ALL 🗢 )

All the tracks on the disc are repeated.

Cancel -

#### For your reference:

If REPEAT is pressed during program play, only the tracks in the programmed sequence are repeated. (The indication "ALL" is not displayed.)

#### Changing the sound quality

Press during play or stop mode.

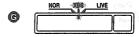


The setting switches in the sequence indicated below each time EQ is pressed.

NOR→XBS→LIVE

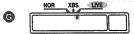
#### XBS:

Select this setting to boost the low-range response.



#### LIVE:

Select this setting to reproduce the sound as if it would be heard in a concert hall.



#### NOR:

Select this setting to turn off the XBS, LIVE function.

Normal sound is heard.



### Anti-Shock Function

Anti shock works by reading audio data and storing it in memory (up to 40 seconds worth). The unit then fills in interruptions caused by bumps and vibrations with data from the memory. This unit also incorporates a powerful anti-shock mechanism that prevents skipping caused when play speed is changed by swinging of the unit.

Press during play or stop mode.





The following indicator appears on the display panel.

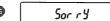




#### When bumps continue repeatedly

The following indicator appears on the display and sound is interrupted.





To cancel the anti-shock function Press ANTI-SHOCK again.

#### Notes

- The ANTI-SHOCK setting can be changed during play, but this may cause a slight interruption in the sound because the disc's rotation speed changes.
- During the anti-shock operation, the disc rotates at a higher rate than usual in collecting extra audio data.
   This could result in a slight increase in disc rotation noise.

### Using the unit with an audio system

The anti-shock function uses digital signal compression technology. It is recommended that the anti-shock function be canceled if the unit is connected to a home audio system.

### Using the Unit with Optical Accessories

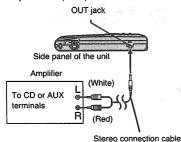
#### Using the unit with an audio system

Using a stereo connection cable (not included), you can listen to CDs on your audio system

- •Turn off the amplifier power and connect the cable.
- Do not connect the cable to the PHONO jacks on the amplifier.
- Obtain the optional connection cable if the amplifier comes with mini-phone jacks.
- Adjust the volume on the amplifier.

#### Notes

- Sound quality changes when XBS or LIVE is selected, but volume is reduced by approximately fifty percent.
- When using active speakers or other speakers, ensure that they have an input impedance of 1  $k\Omega$  or less.



#### Using the unit with a car audio system

#### Items to be purchased

For connection to the car audio system:

- Car stereo cassette adaptor (SH-CDM10A)
- ●Car adaptor (SH-CDC9)

Connect the car stereo cassette adaptor to the unit's headphones jack. (When doing this, keep the unit's VOLUME control at a setting between 4 and 6.)

#### For securing the unit and connecting the power supply:

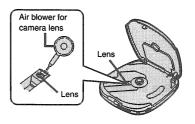
Car mounting kit (SH-CDF20)

It may not be possible to use the unit with some types of car stereo owing to restrictions imposed by the construction of the car stereo cassette adaptor.

For further details, refer to the instructions of the part concerned.

### Maintaining Lens

Open the lid and clean the lens as shown in the figure. Use a cotton swab to gently wipe off any finger-prints. Recommended product: Lens cleaner kit (SZZP1038C)



### Troubleshooting Guide

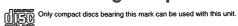
Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized Service Centers (enclosed with this unit) to locate a convenient service center, or consult your dealer for instructions.

(In U.S.A. consult PASC Authorized Servicenters for detailed instructions or call 1-800-211-7262 for the address of an authorized factory servicenter.)

Problem	Check this
Cannot close cover.	Is the disc properly secured in place?
Cannot play discs.	Is the unit in HOLD status?     Its the disc properly secured in place?     Its there moisture condensation on the lens?     (Wait for about an hour and then try again.)
Cannot remove disc.	Did you press the PUSH button to release the disc?
Tracks on disc do not play in order, starting with the first track.	Is the RESUME, NORMAL, RANDOM (play mode) selector in the NORMAL position?
Cannot hear music—too noisy.	Are the earphones plug and the wired remote control plug inserted all the way? Is the plug dirty? (Wipe away dirt on plug.)
TV picture is distorted. Radio reception is noisy.	Are you using the unit body too near a TV or tuner? (If the TV or tuner is connected to a simple indoor antenna, connect it to an outdoor antenna.)

### Concerning Compact Discs



irregular shape CDs (heart-shape, octagonal, etc.) can damage the unit.



How to remove a disc from its case

How to store the disc in its





How to hold a disc



#### If the surface is dirty

Wipe it with a damp cloth and then wipe dry.
Wipe from the center toward the outer circumfere



#### If moisture has formed on a disc

When moisture has formed because the disc was brought suddenly into a warm room from a cold environment, wipe it off using a soft dry

#### When storing discs

- Avoid locations which are Exposed to direct sunlight.
- Susceptible to high levels of humidity or dust.
   Directly exposed to heat from a heating appli-
- On top of a car dashboard or near the rear

#### Handling precautions

- On the label side (the side with writing) Do not write anything using a pencil, ball-
- point pen, etc. Do not stick paper or labels
- On the disc (shiny) side
- Handle this side carefully to keep it free from fingerprints or scratches. Do not use record ers, solvents, etc.
- Do not attach labels or stickers to CD's. Do not use CDs with exposed adhesive from tape or left over peeled off stickers.
- Do not use scratch-proof protectors or covers other than those specified for use with this

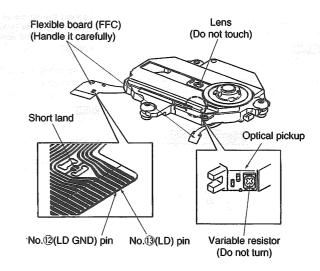
### Handling Precautions for Traverse Deck

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)

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

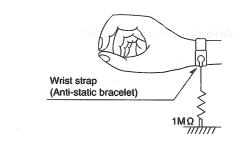


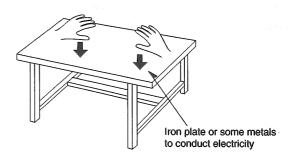
#### • Grounding for electrostatic breakdown prevention

- Human body grounding
   Use the anti-static wrist strap to discharge the static electricity from your body.
- Work table grounding Put a conductive material (sheet) or steel sheet on the area where the 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).





## Operation Checks and Main Component Replacement Procedures

- NOTE

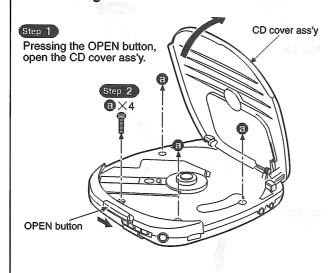
  1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
  - 2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
  - 3. [ ] indicates parts No.

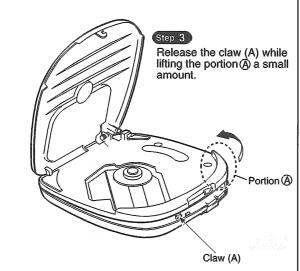
#### Contents

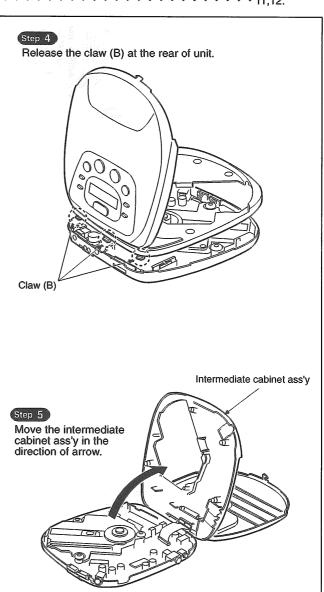
Checking Procedures for each P.C.B.  1. Checking for the main P.C.B	Page. • 9~11.
Main Component Replacement Procedures	
1. Replacement for the traverse deck.	
2. Replacement for the CD cover ass'y and LCD.	٠ 11,12.

### Checking Procedures for each P.C.B.

1. Checking for the main P.C.B.

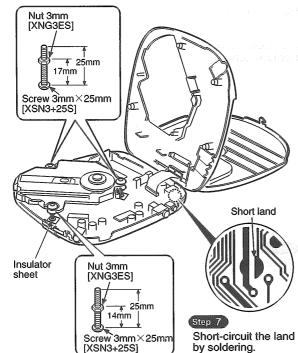








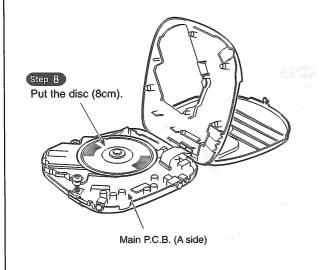
Sustain the traverse deck with the floating rubber inserted screws and nuts as shown above.

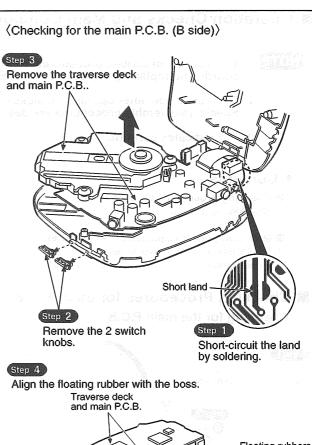


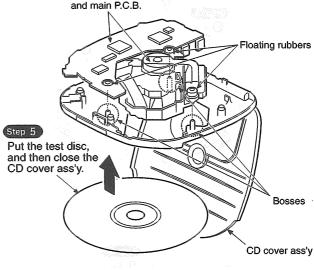
### NOTE

- $\boldsymbol{\cdot}$  After checking, unsolder the short land to open circuit.
- The tip of screw must not protrude above the floating rubber.
- To keep insulation, place the insulator sheet (paper etc.) between the P.C.B. and the head of screws.

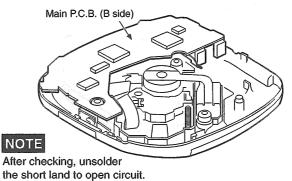
· Check the main P.C.B. (A side) as shown below.



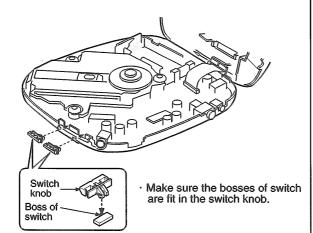




· Check the main P.C.B. (B side) as shown below.

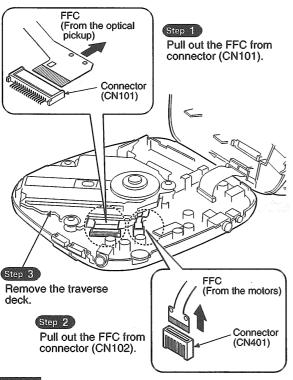


#### Notice for installation of switch knobs



### Main Component Replacement Procedures

- 1. Replacement for the traverse deck
- Follow the Step 1 ~ Step 5 of the item 1 in checking procedure for each P.C.B. on page 9.



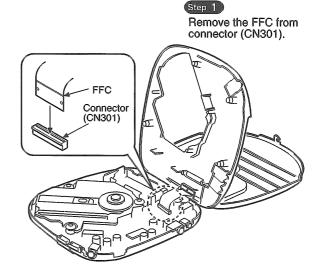
### NOTE

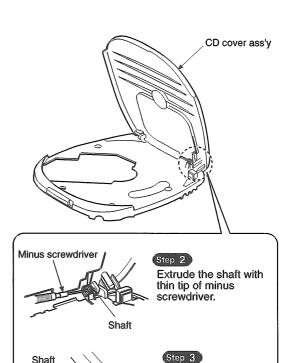
Solder the point between pin (1) (LD GND) and pin (3) (LD) of FFC.

(Refer to "Handling Precautions for Traverse Deck" on page 8.

### 2. Replacement for the CD cover ass'y and LCD

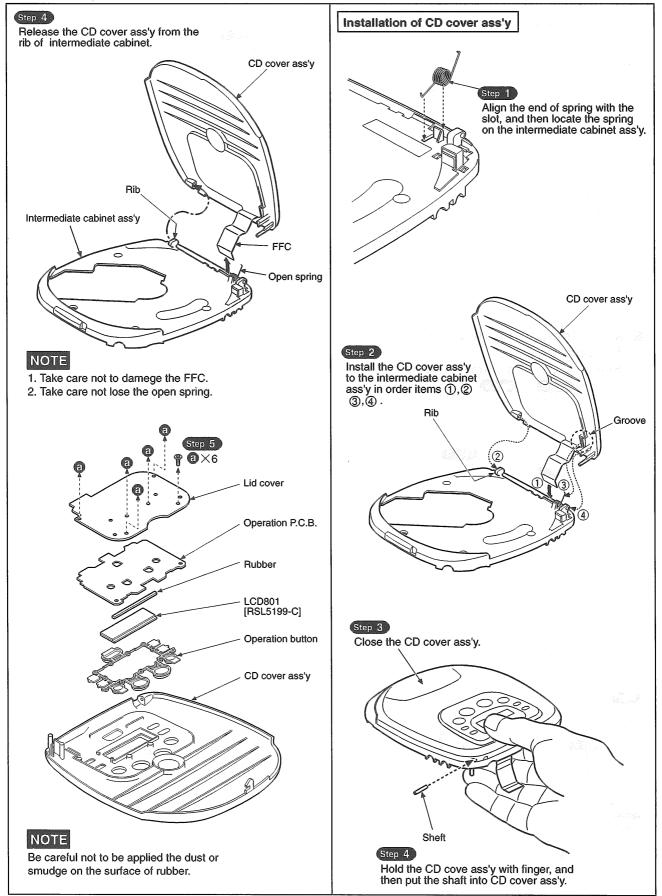
· Follow the Step 1 ~ Step 5 of the item 1 in checking procedure for each P.C.B. on page 9.





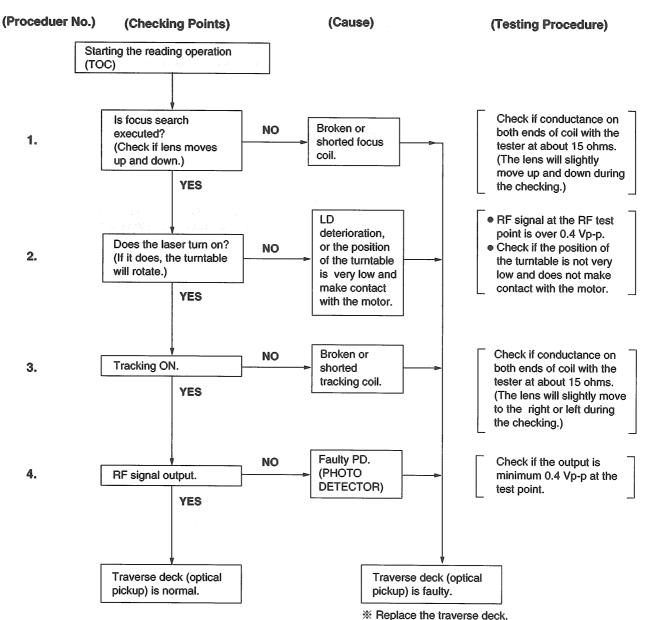
Draw the projected

shaft.



## Checking the Operation Problems on the Traverse Deck (Optical Pickup)

Make sure to follow the procedures below to check the operation problems of the traverse deck (optical pickup) before replacing it. Replace the traverse deck only after the problem is identified.



- Check electrical circuit.
- Check for flaws on disc or if it is warped or not centered.

#### Check the operations described below on the traverse deck after replacing it.

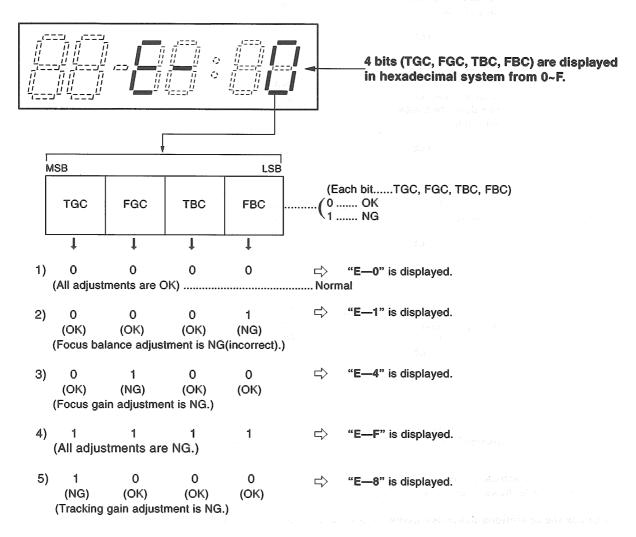
- \* Checking Skip Search
- Play an ordinary musical program disc.
- Press the skip button to check for normal skip search operation (in both the forward and reverse directions).
- \* Checking Manual Search
- 1. Play an ordinary musical program disc.
- Press the manual search button to check for smooth manual search operations at either low or high speed (in both the forward and reverse directions).
- \* Checking Playability
- Play the 0.7 mm black dot and the 0.7 mm wedge on the playability test disc (SZZP1054C) and verify that no sound skip or noise occurs.
- Play the middle tracks of the uneven test disc (SZZP1056C) and verify that no sound skip or noise occurs.

### Automatic Adjustment Results Display Function (Self-check Function)

On this unit (SL-SX500), each automatic adjustment result are displayed on the LCD. This function is convenient to check or identify which automatic adjustment circuit is incorrect. The followings are the contents of the automatic adjustment result displays (self-check function).

#### How to display automatic adjustment results

- 1. Load the test disc (SZZP1054C).
- 2. Press the 【◀◀ (SKIP/SEARCH) and ▶▶ (SKIP/SEARCH) Buttons simultaneously and hold them, and additionally press the ▶/ ▮ (PLAY/PAUSE) Button.
- 3. Press the (STOP/POWER OFF) Button once.
- 4. An automatic adjustment result is displayed on the LCD.
- Display of automatic adjustment results (self-check function)



Note: If any other disc than the test disc (SZZP1054C) is used, an "E—8" may be displayed.

### ⟨Example⟩ Follow the below steps when "E-1" is displayed.

(Cause: Focus balance (FBC) is set beyond the limit.)

Check if

- (1) the waveform or voltage of the focus servo circuit is correct.
- (2) the optical pickup returns to the normal state by exchanging the traverse deck.

#### Follow the below steps when "E - 4" is displayed.

(Cause: Focus gain (FGC) is set beyond the limit.)

- Check if
- (1) the waveform or voltage of the focus servo circuit is correct.
- (2) the focus coil of the optical pickup is correct (around 15 ohms).
- (3) the optical pickup returns to the normal state by exchanging the traverse deck.

#### Follow the below steps when "E - F" is displayed.

(Cause : All adjustments (TGC, FGC, TBC, FBC) are set beyond the limit.)

- Check if
- (1) the optical pickup returns to the normal state by exchanging the traverse deck.
- (2) the waveform or voltage of the servo IC's (IC101, 501) are correct.

#### Note:

It is not always necessary to exchange the traverse deck when an error message is displayed.

Be sure to check if the circuit is defective or not before exchanging the traverse deck.

#### Note:

If any other disc than the test disc (SZZP1054C) is used, an error message may be displayed. This is not a malfunction.

### Measurements and Adjustments

Warning: This product uses a laser diode. Refer to caution statements on page 2.

ACHTUNG: • Die lasereinheit nicht zerlegen.

• Die lasereinheit darf nur gegen eine vom hersteller spezifizierte einheit ausgetauscht werden.

#### • Measuring instruments and special tools

- Test discs
- 1. Playability test disc (SZZP1054C)
- 2. Uneven test disc (SZZP1056C)

- Musical program disc (ordinary)
- DC voltmeter
- Lead wire (for test points)

#### Test short land

Short-circuit the lands of the laser ON/OFF switch (S201) by soldering them. It turns "ON" position. (Refer to below **Fig. 1** or printed circuit board and wiring connection diagram for short land location on page 27.)

Note: Remove the solders from the lands after adjustment.

- Adjustment point
- Notes: 1. Please refer to the printed circuit board and wiring connection diagram for test point locations on page 27.
  - 2. Take care to connect CN101 and CN102, as shown in Fig. 1.

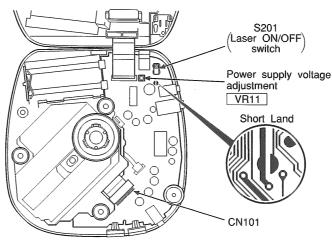


Fig. 1

### (1) POWER SUPPLY VOLTAGE ADJUSTMENT

- 1. Connect the DC voltmeter to TP103 (VCC) (+) and TP104 (GND) on the P.C.B.
- Connect the AC adaptor cord to the DC (IN) port and move the PLAY switch to the ON position.
   (Use a new dry cell battery or a rechargeable battery that is full charged.)
- 3. Insert the test disc, and switch the player power ON.
- 4. Adjust VR11 on the P.C.B. at 3.10 ~ 3.14 V, as shown in Fig. 1.

#### (2) CHECK OF PLAY OPERATION

#### \* Checking Skip Search

- 1. Play an ordinary musical program disc.
- Press the skip button to check for normal skip search operation (in both the forward and backward directions).
- \* Checking Manual Search
- 1. Play an ordinary musical program disc.
- Press the manual search button to check for smooth manual search operations at either low or high speed (in both the forward and backward directions).
- \* Checking Playability

- 1. Play the 0.7 mm black dot and the 0.7 mm wedge on the playability test disc (SZZP1054C) and verify that no sound skip or noise occurs.
- Play the middle tracks of the uneven test disc (SZZP1056C) and verify that no sound skip or noise occurs.

### Automatic adjustment

On our conventional type portable CD player, there were mounted 6 semi-fixed controls for each adjustment. Since the SL-SX500 servo circuit is equipped with an automatic adjusting circuit, these controls are removed from SL-SX500.

On conventional portable CD player Use for Old Servo IC (AN8373SE2, AN8374SE2)		On SL-SX500 Use for New Servo IC (AN8839NSBE1, MN662780RPS2)
1. Tracking Offset Adjustment VR (TOC) 2. Focus Offset Adjustment VR (FOC) 3. Tracking Gain Adjustment VR (TGC) 4. Focus Gain Adjustment VR (FGC) 5. Tracking Balance Adjustment VR (TBC) 6. Focus Balance Adjustment VR (FBC)	<b>*</b>	Non Adjustment  Automatic Adjusting Circuit
Total 6 Adjustment VRs	•	No Adjustment VR

Although all discs are manufactured according to the same specifications, their characteristics are not always precisely the same because they are produced by different manufacturers in various lots, or have different warp etc. SL-SX500 automatically controls the servo circuit to obtain optimum performance according to any disc's characteristics. Therefore, no malfunction occurs because of mis-adjustment.

## Outline of 40-Second Sound Keeper Technique Used for Prevention of Sound from Skipping

#### 1. Conventional Shockproofing Technique

Input information read out of the CD at double speed is demodulated, stored in the memory, and while sound-marking signal is supplied at normal speed from the memory to the D/A converter, the residual data is accumulated in the memory.

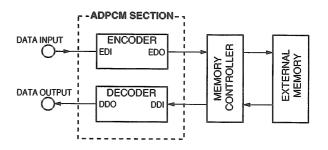
If reaccess to the break point is accomplished before the memory becomes empty, apparent playback sound is entirely kept free from breaking even when information pauses due to vibration, etc. It was necessary to use the 16M bit memory for securing the accumulation time of about 40 seconds.

### 2. Compression-shockproofing [Outline]

Fig. 1 is a block diagram showing the compressionshockproofing mechanism, the difference of which from the conventional mechanism is as follows: Input information read out at double speed undergoes data compression (16 bits → 4 bits) by the encoder in the ADPCM (Adaptive Difference PCM) and stored in the external memory; the stored memory information undergoes data elongation (4 bits → 16 bits) by the decoder in the ADPCM and supplied at normal speed to the D/A converter.

The data compression technique has conduced to reduction of required memory capacity from 4M bits to 1M bit for securing the accumulation time equivalent to the conventional.

### All-inclusive Block Diagram



### Schematic Diagram (See parts list on pages 35~37.)

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

#### Notes:

- \$201: Laser ON/OFF switch in "OFF" position. (It turns "ON" with disc holder closed.)
- \$202: Rest detector in "OFF" position. (It turns "ON" when optical pickup comes to innermost periphery.)
- \$301: Play mode selector (MODE) in "NORMAL" position. [NORMAL⇔RANDOM⇔RESUME]
- \$302: Hold lock (HOLD-LOCK) switch in "OFF" position.
- \$801: Play/pause (▶▮▮) switch.
- \$802: Stop/power off (M, POWER OFF) switch.
- **\$803**: Skip/search (▶▶**1**/▶▶) switch.
- \$804: Skip/search (▮◀◀/◀◀ ) switch.
- S805: Repeat (REPEAT) switch.
- \$806: Memory/recall (MEMORY/RECALL) switch.
- \$807: EQ (EQ) switch.
- \$808: Anti-shock (ANTI-SHOCK) switch in "OFF" position.
- S809: Battery check (BATT CHECK) switch.
- The voltage value and waveforms are the reference voltage of this measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of GND terminal (DC IN Jack). Accordingly, there may arise some errors in the voltage values and waveforms depending upon the internal impedance of the tester or measuring unit.

- Mesurement conditions:
  - \* Set the hold lock switch to ON.
  - \* The parenthesized is the voltage for test disc (1 kHz, L+R, 0 dB) in play mode, and the other, for no disc in stop mode.
- \* AC adaptor is used for power supply.
- : Positive voltage lines.
- : Audio signal lines.
- Important safety notice:

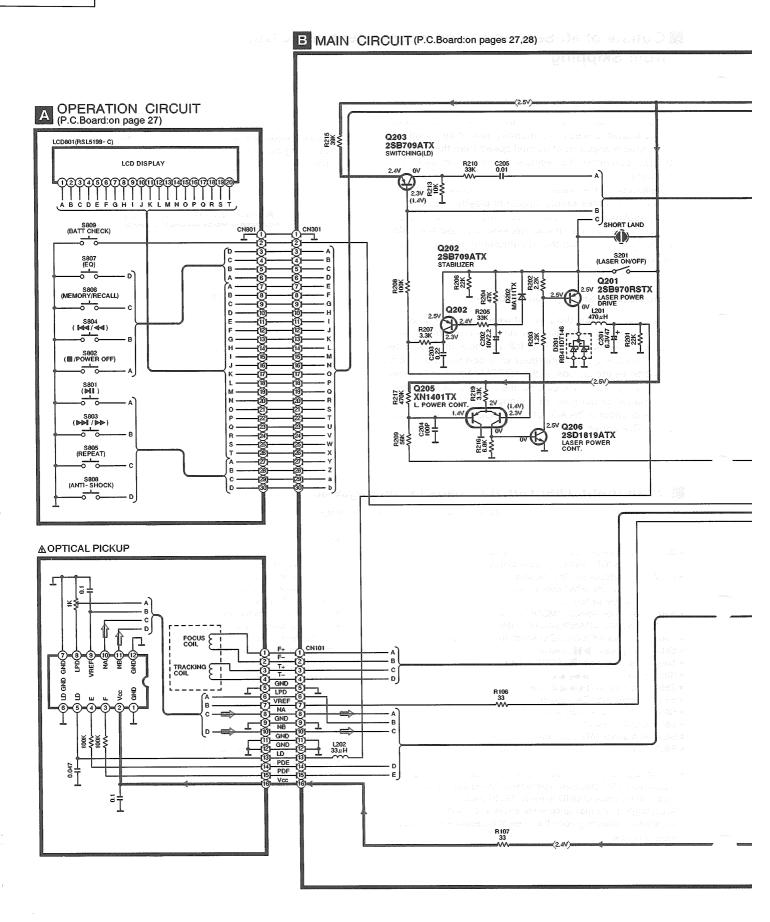
Components identified by A mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacture's specified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

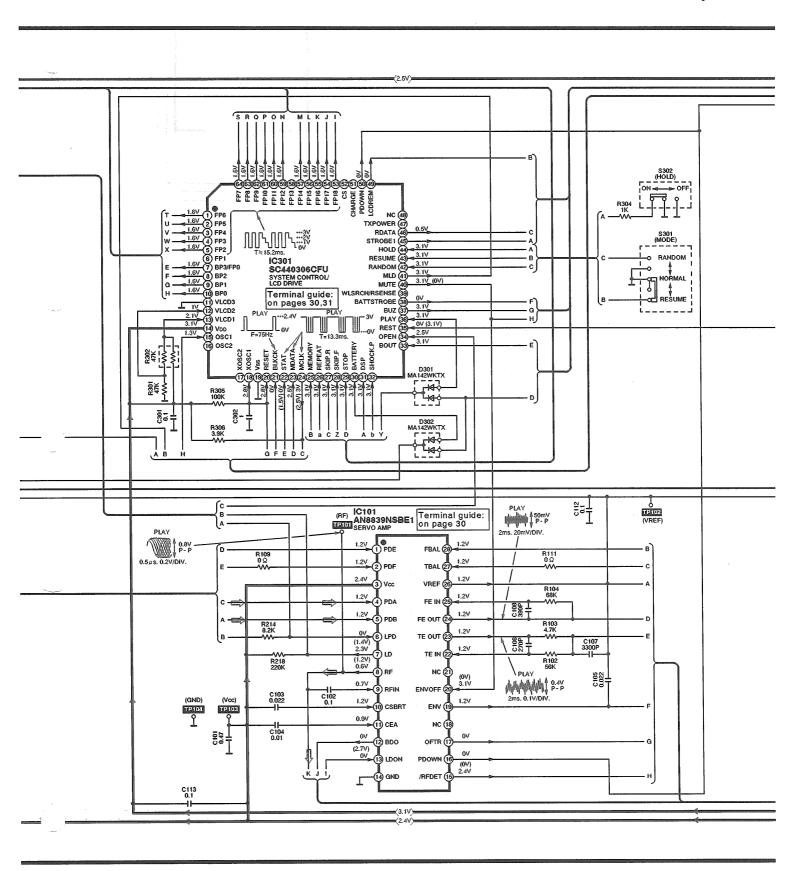
#### Caution!

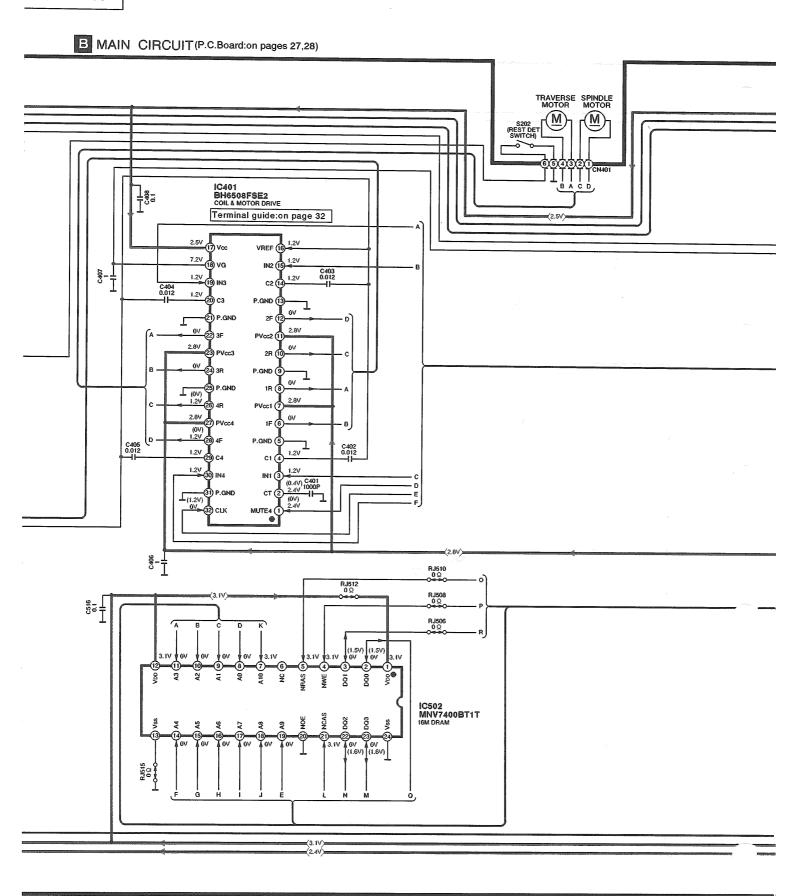
IC and LSI are sensitive to static electricity.

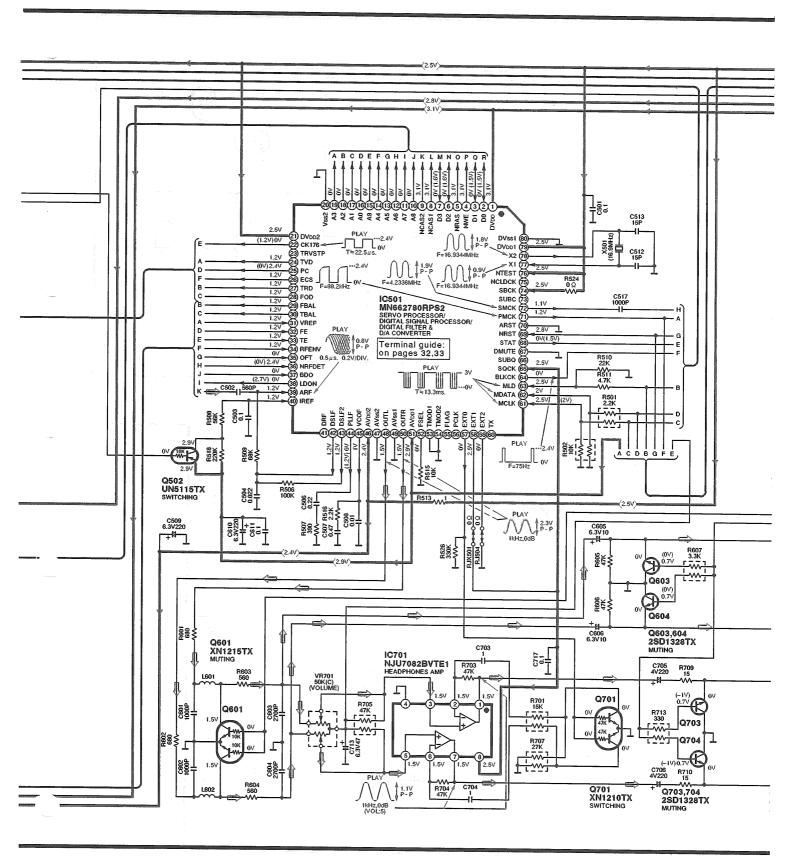
Secondary trouble can be prevented by taking care during repair.

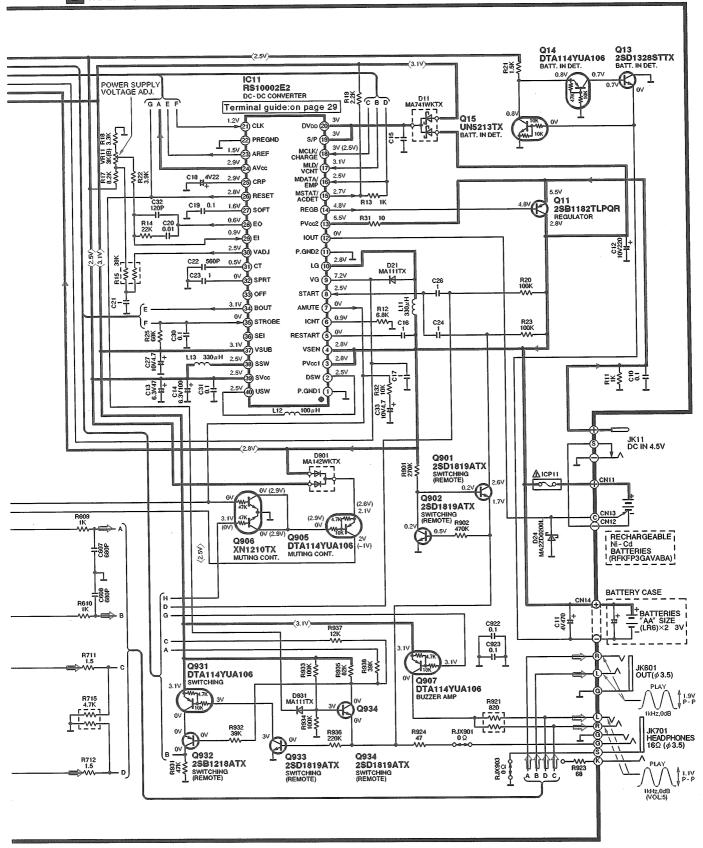
- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the pins of IC or LSI with fingers directly.



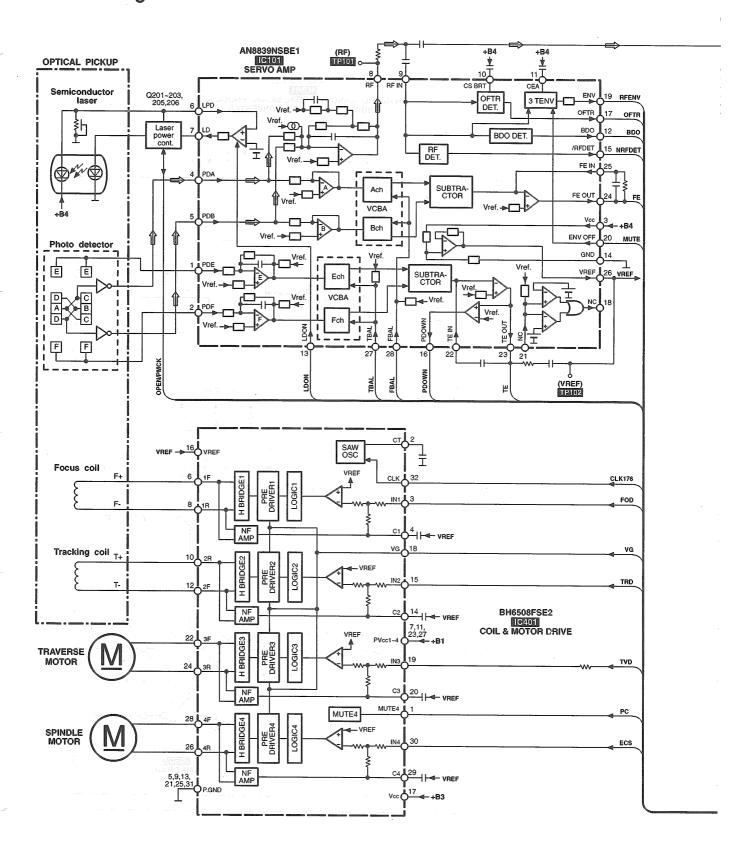


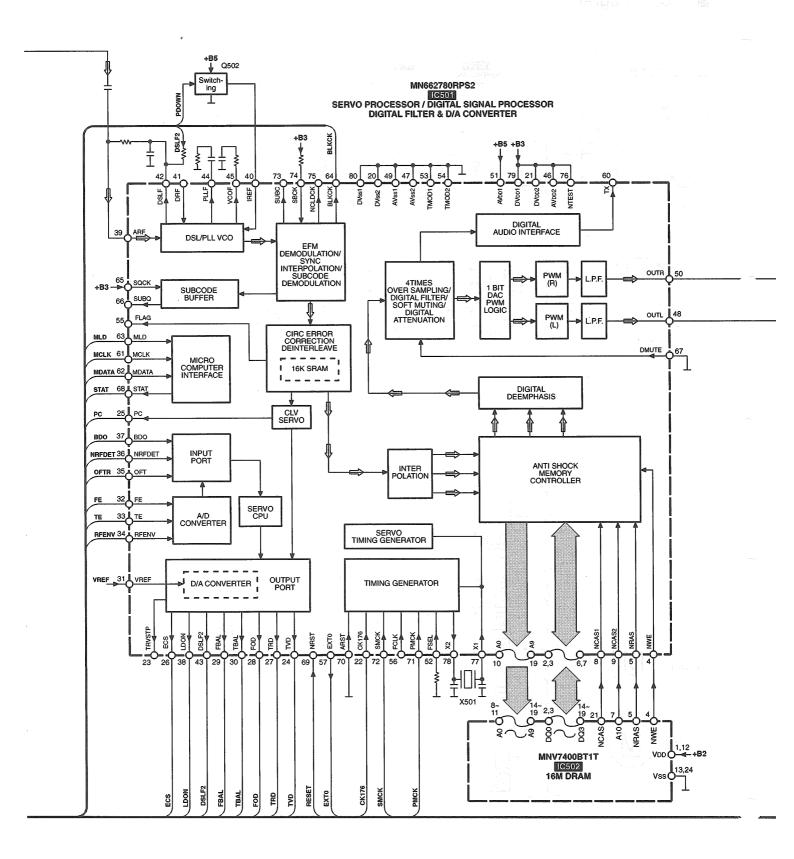


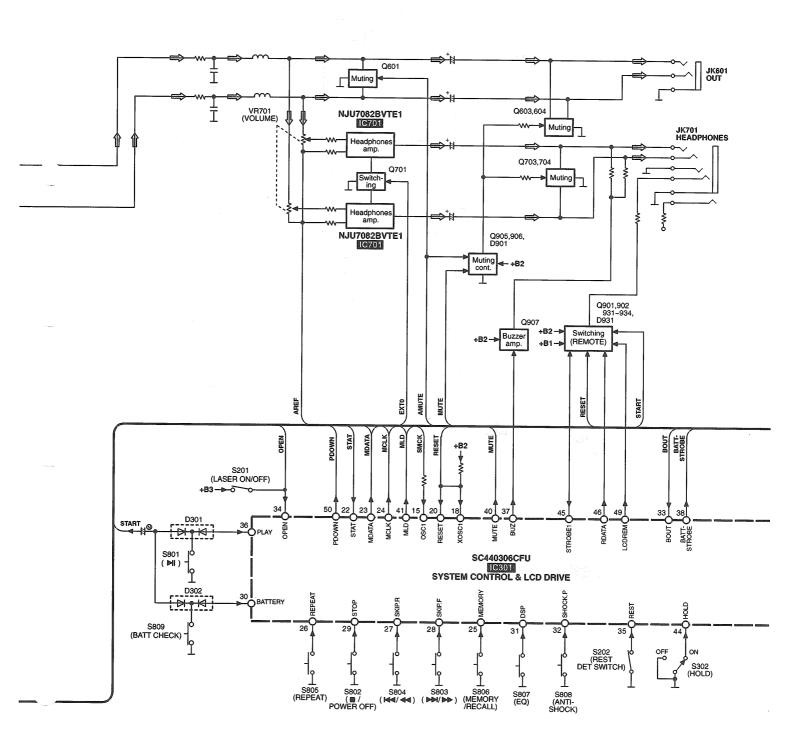


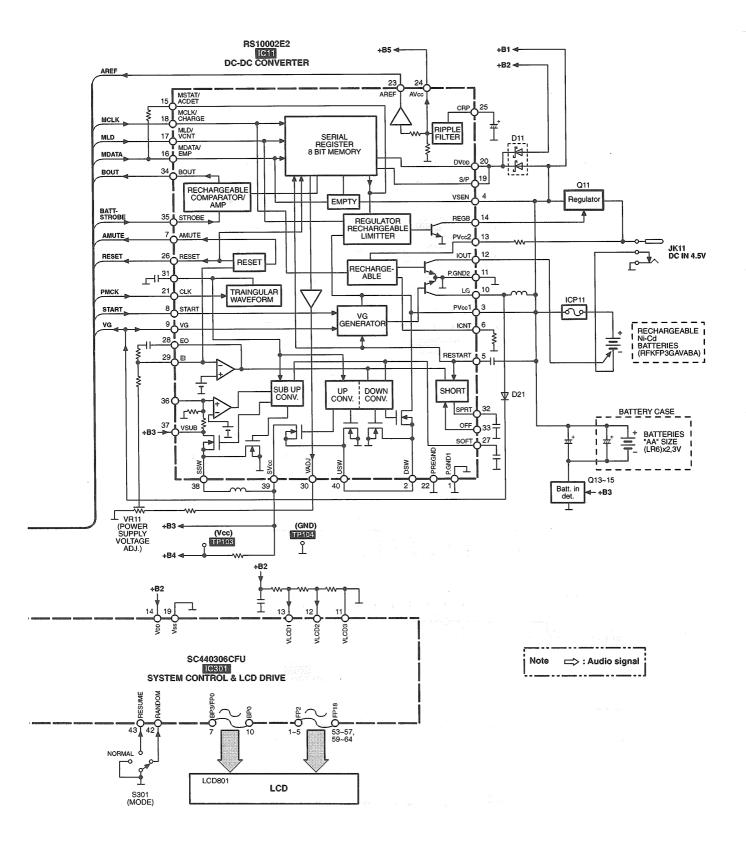


### Block Diagram



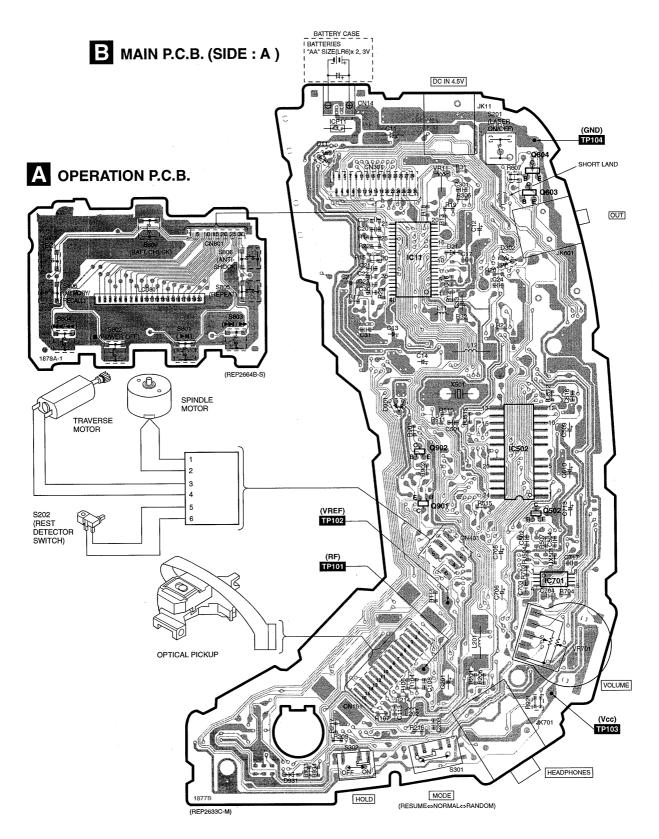




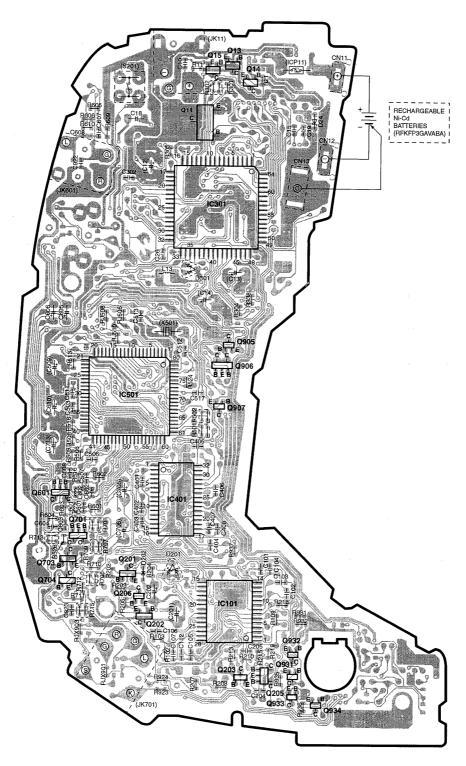


### ■ Printed Circuit Board and Wiring Connection Diagram

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



## B MAIN P.C.B. (SIDE : B)



## **■** Terminal Function of IC's

### • IC11 (RS10002E2): DC-DC CONVERTER

Pin No.	Mark	I/O Division	Function
	<b></b>	DIVISION	
1	PGND1	_	GND terminal
2	DSW	0	DC/DC converter coil drive terminal
3	PVCC1		Power supply terminal
4	VSEN	1 .	Empty supply terminal (Power supply terminal)
5	RESTART	I	DC/DC converter drive terminal
6	ICNT	I	Charge current setting terminal
7	AMUTE	0	Muting signal output terminal
8	START	.1	DC/DC converter start terminal
9	VG	I	Power supply terminal
10	LG	I	Connected to power supply
11	PGND2	_	GND terminal
12	IOUT	0	Charge signal output terminal
13	PVCC2	I	Power supply terminal
14	PEGB	0	Regulator drive signal output terminal
15:	MSTAT/ AC DET	0	DC jack detect signal output terminal
16	M DATA/ EMP	0	Decline voltage detect output terminal
17	MLD/VCNT	<u> </u>	Regulator voltage select input terminal
18	MCLK/ CHARGE	ı	Charge ON/OFF terminal
19	S/P	ı	Serial/Parallel select terminal (Connected to power supply)
20	DVDD	1	Power supply terminal

Pin No.	Mark	I/O Division	Function
21	CLK	1	Clock signal input terminal
22	PREGND	_	GND terminal
23	AREF	0	Audio reference output terminal
24	AVCC	0	Ripple filter output terminal
25	CRP	ı	Connected to capacitor
26	RESET	0	Reset detect signal output terminal
27	SOFT	0	Soft start setting terminal (Connected to capacitor)
28	EO	0	DC/DC converter error amp output terminal
29	EI	ı	DC/DC converter error amp input terminal
30	VADJ	0	DC/DC converter variable output terminal
31	СТ	0	Triangular wave output terminal (Connected to capacitor)
32	SPRT	0	Power off time-constat setting terminal (Connected to capacitor)
33	OFF	ı	DC/DC converter off terminal (Not used, open)
34	BOUT	0	Amp output terminal
35	STROBE	ı	Strobe input terminal
36	SEI	ı	Sub DC/DC converter, error amp input terminal (Not used, open)
37	VSUB		
38	ssw	ı	Power supply terminal
39	svcc		
40	USW	ı	DC/DC converter coil drive terminal

### ● IC101 (AN8839NSBE1): SERVO AMP

Pin No.	Mark	VO Division	Function
1	PDE	ı	Tracking signal input terminal (1)
2	PDF	-	Tracking signal input terminal (2)
3	Vcc	ı	Power supply terminal
4	PDA	١	Focus signal input terminal (1)
5	PDB	ı	Focus signal input terminal (2)
6	LPD		APC amp input terminal
7	LD	0	APC amp output terminal
8	RF	0	RF summing output terminal
9	RF IN	ı	RF signal input terminal
10	CSBRT	ı	Capacitor connection terminal for OFTR
11	CEA	1	Capacitor connection terminal for H.P.F. amp
12	BDO	0	Dropout signal output terminal ("H": Dropout)
13	LDON	ı	APC control input terminal
14	GND	_	GND terminal

Pin No.	Mark	I/O Division	Function
15	/RFDET	0	RF det. signal output terminal ("L": Det.)
16	PDOWN	0	Power down input terminal
17	OFTR	0	Off track signal output terminal ("H": Off track)
18	NC	_	Not used, open
19	ENV	0	RF envelope signal output terminal
20	ENV OFF	ı	ENV control input terminal
21	NC	_	Not used, open
22	TE IN	1	Tracking error amp input terminal
23	TE OUT	0	Tracking error amp output terminal
24	FE OUT	0	Focus error amp output terminal
25	FE IN	ı	Focus error amp input terminal
26	VREF	0	Reference voltage output terminal
27	TBAL	ı	Tracking balance signal input terminal
28	FBAL	ı	Focus balance signal input terminal

### ● IC301 (SC440306CFU): SYSTEM CONTROL/LCD DRIVE

Pin No.	Mark	I/O Division	Function
1 5	FP6 { FP2	0	LCD segment signal output terminal
6	FP1	0	LCD segment signal output terminal (Not used, open)
7 \$ 10	BP3 \$ BP0	0	LCD segment signal output terminal
11	VLCD3	ı	Not used, connected to GND
12	VLCD2	ı	Power supply terminal

Pin No.	Mark	I/O Division	Function	
13	VLCD1	1	Power supply terminal	
14	VDD	ı	Power supply terminal	
15	OSC1	ı	System clock (f=4.2336MHz)	
16	OSC2		N. C.	
17	XOSC2		Not used, open	
18	XOSC1	ı	Connected to reset detect	
19	vss	_	GND terminal	

Pin No.	Mark	I/O Division	Function
20	RESET	1	Reset detect input terminal
21	BLKCK	ı	Block clock input terminal
22	STAT	1	Status signal input terminal
23	MDATA	0	Command data output terminal
24	MCLK	0	Serial command output terminal
25	MEMORY	ı	MEMORY key input terminal
26	REPEAT	ı	REPEAT key input terminal
27	SKIP.R	ı	SKIP.R key input terminal
28	SKIP.F	ı	SKIP.F key input terminal
29	STOP	-	STOP key input terminal
30	BATTERY	I	Batt check key input terminal
31	DSP	I	DSP key input terminal
32	SHOCK.P	ı	SHOCK.P key input terminal
33	BOUT	ı	Charging control input terminal ("L": OFF)
34	OPEN	ı	CD cover open detection terminal
35	REST	ı	Rest (innermost position) detection input terminal
36	PLAY	ı	PLAY key input terminal
37	BUZ	0	Beep control output terminal
38	BATTSTROBE	0	Rechargeable battery voltage measurment output terminal

Pin No.	Mark	I/O Division	Function
39	WLSRCN/ RSENSE	ı	Not used, open
40	MUTE	0	Hard muting output terminal
41	MLD	0	Serial command latch output terminal
42	RANDOM	ı	RANDOM switch input terminal
43	RESUME	I	RESUME switch input terminal
44	HOLD	I	HOLD switch input terminal
45	STROBE1	0	Remote control data signal output terminal
46	RDATA	0	Remote control data output terminal
47	TXPOWER	0	Digital out ON output terminal (Not used, open)
48	NC	_	
49	LCDREM	0	Remote control EL ON output terminal
50	PDOWN	0	Head amp OFF output terminal
51	CHARGE	0	Charge signal output terminal (Not used, open)
52	cs	0	Not used, open
53 \$ 57	FP18	0	LCD segment signal output terminal
58	FP13	0	LCD segment signal output terminal (Not used, open)
59 { 64	FP12 { FP7	0	LCD segment signal output terminal

### ● IC401 (BH6508FSE2): MOTOR DRIVE

Pin No.	Mark	VO Division	Function
1	MUTE4		CH4 muting terminal
2	СТ	0	Triangular wave output terminal (Connected to capacitor)
3	IN1	ı	CH1 input terminal
4	C1	0	CH1 filter terminal (Connected to capacitor)
5	PGND	_	GND terminal
6	1F	0	Focus coil driver output terminal
7	PVCC1	1	Power supply terminal
8	1R	0	Focus coil driver output terminal
9	PGND	_	GND terminal
10	2R	.0	Tracking coil driver output terminal
11	PVCC2	1	Power supply terminal
12	2F	0	Tracking coil driver output terminal
13	PGND	_	GND terminal
14	C2	0	CH2 filter terminal (Connected to capacitor)
15	IN2	ı	CH2 input terminal
16	VREF	ı	Reference voltage output terminal

Pin No.	Mark	I/O Division	Function
17	vcc	I	Power supply terminal
18	VG	l	Power supply terminal
19	IN3	1	CH3 input terminal
20	СЗ	0	CH3 filter terminal (Connected to capacitor)
21	PGND	_	GND terminal
22	3F	0	Traverse motor drive output terminal
23	PVCC3	I	Power supply terminal
24	3R	0	Traverse motor drive output terminal
25	PGND		GND terminal
26	4R	0	Spindle motor drive output terminal
27	PVCC4	ı	Power supply terminal
28	4F	0	Spindle motor drive output terminal
29	C4	0	CH4 filter terminal (Connected to capacitor)
30	IN4	ı	CH4 input terminal
31	GND	_	GND terminal
32	CLK	ı	Clock input terminal

### • IC501 (MN662780RPS2): SERVO PROCESSOR/DIGITAL SIGNAL PROCESSOR/DIGITAL FILTER/D/A CONVERTER

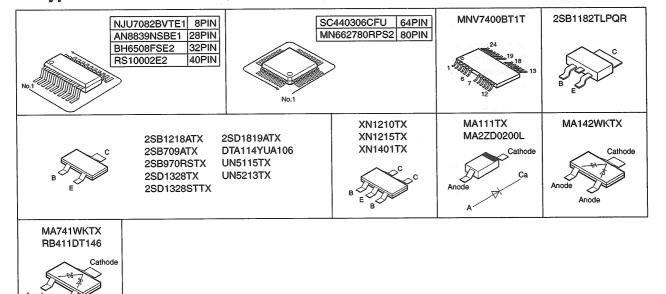
Pin No.	Mark	I/O Division	Function
1	DVDD		Power supply terminal
2	D0	1/0	Data 0 input/output terminal
3	D1	1/0	Data 1 input/output terminal
4	NWE	0	Write enable output terminal
5	NRAS	0	RAS control signal output terminal
6	D2	I/O	Data 2 input/output terminal
7	D3	1/0	Data 3 input/output terminal
8	NCAS0	0	CAS control 0 signal output terminal
9	NCAS1	0	Address/0 signal output terminal

Pin No.	Mark	I/O Division	Function	
10	A8			
Ş	S			
14	A4		Address $8 \sim 4$ , $9$ , $0 \sim 3$ output terminal	
15	A9	o		
16	A0			
S	s			
19	АЗ			
20	VSS2		GND terminal	
21	DVDD2	١	Power supply terminal	
22	CK176	0	Clock output terminal (88.2kHz/44.1kHz)	
23	TRVSTP	0	Traverse motor stop control terminal ("H": stop mode) (Not used, open)	

Pin No.	Mark	I/O Division	Function Posted B
24	TVD	0	Traverse drive signal output terminal
25	PC	0	Spindle motor drive signal output terminal ("L": ON)
26	ECS	0	Spindle motor drive signal output terminal
27	TRD	0	Tracking drive kick pulse output terminal
28	FOD	0	Focus drive output terminal
29	FBAL	0	Focus balance adj. output terminal
30	TBAL	0	Tracking balance adj. output terminal
31	VREF	1	Reference voltage input terminal
32	FE	ı	Focus error signal input terminal
33	TE	ı	Tracking error signal input terminal
34	RFENV	1	RF envelope signal input terminal
35	OFT	ı	OFF track signal input terminal ("H": off track)
36	NRFDET	ı	RF detect signal input terminal ("L": detect)
37	BD0	I	Drop out signal input terminal ("H": drop out)
38	LDON	0	Laser on signal output terminal ("H": ON)
39	ARF	1	RF signal input terminal
40	IREF	ı	Reference current input terminal
41	DRF	I	DSL bias terminal (Not used, open)
42	DSLF	0	DSL loop filter output terminal
43	DSLF2	0	DSL anbalance current correction output terminal
44	PLLF	0	PLL loop filter output terminal
45	VCOF	0	Loop filter output terminal
46	AVDD2	l	Power supply terminal
47	AVSS2		GND terminal
48	OUTL	0	Audio Lch output terminal
49	AVSS1	_	GND terminal
50	OUTR	0	Audio Rch output terminal
51	AVDD1	ı	Power supply terminal
52	FSEL		Noise filter select terminal ("H": ON, "L": OFF)
53	TMOD1	_	Terminal mode select 1 terminal ("L": normal)

Pin No.	Mark	VO Division	Function
54	TMOD2		Terminal mode select 2 terminal ("L": normal)
55	FLAG	_	Flag signal output terminal (Not used, open)
56	PCLK		Crystal frame clock signal output terminal (Not used, open)
57	EXT0	0	Expansion port 0 output terminal
58	EXT1	_	Expansion port 1 output terminal (Not used, open)
59	EXT2		Expansion port 2 output terminal (Not used, open)
60	ТХ	0	Digital audio interface signal output terminal (Not used, open)
61	MCLK	ı	Micon command clock signal input terminal
62	MDATA	l	Micon command data input terminal
63	MLD	I	Micon command load signal input terminal ("L": load)
64	BLKCK	0	Sub code block clock signal output terminal (f BLKCK=75kHz)
65	SQCK	1	Sub code Q resistor colck input terminal
66	SUBQ	_	Sub code Q data output terminal (Not used, open)
67	DMUTE	_	Muting input terminal ("H": mute) (Not used, connected to GND)
68	STAT	0	Status signal output terminal (RESY, CLVS, NTTSTOP, SQCK, FLAG6, SENSE, NTLOCK, BSSEL, SUBQ DATA, CD TEXT DATA, ANTI SHOCK LOAD DATA)
69	NRST	ı	Reset input terminal ("L": reset)
70	ARST		Test terminal ("L": normal)
71	РМСК	0	Clock signal output terminal (88.2kHz)
72	SMCK	0	Clock signal output terminal (4.2336MHz)
73	SUBC	0	Sub code output terminal (Not used, open)
74	SBCK	ı	Sub code output clock input terminal
<b>75</b>	NCLÓCK	0	Sub code frame clock output terminal (f CLDCK= 7.35kHz) (Not used, open)
76	NTEST	ı	Test terminal ("H": normal)
77	Х1	ı	Crystal oscillator input terminal (f=16.9344MHz)
78	X2	0	Crystal oscillator output terminal (f=16.9344MHz)
79	DVDD1	ı	Power supply terminal
80	DVSS1		GND terminal

### Type Illustration of IC's, Transistors and Diodes



## Supply of Rechargeable Battery Ass'y as Replacement Parts

Please take note of the following points relating to Battery Carrying Case to be used for protection of Rechargeable Battery Ass'y from shorting.

Replacement Parts:

- Rechargeable Battery Ass'y (RFKFP3GAVABA) to be supplied will be provided with Battery Carrying Case (RFKNLS370-K).
- No replacement parts will be supplied for Rechargeable Battery Ass'y without Battery Carrying Case.
- Replacement parts will be supplied for Battery Carrying Case (RFKNLS370-K) without Rechargeable Battery Ass'y.
- To your customers, delivery Rechargeable Battery Ass'y together with Battery Carrying
  Case to prevent shorting accidents that may occur when Rechargeable Battery Ass'y
  is carried about without Battery Carrying Case.

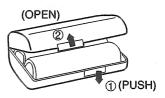
Rechargeable Battery Ass'y (Rechargeable Batteries with Carrying Case) (RFKFP3GAVABA)



Battery Carrying Case (RFKNLS370-K)

## Caution in Use of Rechargeable Battery Ass'y

- Take Rechargeable Battery Ass'y out of Battery Carrying Case and use it.
- Be sure to carry Rechargeable Battery Ass'y in this Battery Carrying Case.
   If not, it may either heat or ignite by shorting with a metal.



Remarks

### Replacement Parts List

Notes: \*Important safety notice:

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

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

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts

- \* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.) Parts without these indications can be used for all
- \*Warning: This product uses a laser diode. Refer to caution statements on page 2.
- \*Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF), F=Farads (F)
- \*Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM)
- \*"<IA>, <IB>" marks in Remarks indicate language of instruction manual.

[<IA>: English, <IB>: Canadian/French]

%This item is not attached to marchandise, but it is supplied as a replacement parts.

2	DUVO100 V			
2				
	RKK0102-K	BATTERY COVER	1	
	RGV0199-H	SLIDE KNOB	2	
	RJC93020	COMMON BATTERY TERMINAL	1	
	RFKJLSX500PS	BOTTOM CABINET ASS'Y	1	
	RKA0063-K	F00T	2	
	RMA0677	REAR ORNAMENT PLATE	1	
	RME0266	OPEN SPRING	1	
7	RMS0570	SHAFT	1	
	RYF0476A-S	CD COVER ASS'Y	1	
9	RGU1611-S	OPERATION BUTTON	1	
10	RJB1819A	FPC (30P)	1	
11	XTN17+6GFZ	SCREW	4	
<b>1</b> 2 12	RAE0145Z	TRAVERSE DECK	1	
12-1	RMG0449-H	FLOATING RUBBER	3	
13	RSQ0056	ZEBRA RUBBER	1	
14	RYK0781C-H	INTERMEDIATE CABINET ASS'Y	1	
14-1	RGV0221-S	OPEN KNOB	1	
14-2	RMG0466-K	CUSHON RUBBER	1	
14-3	RMR1141-K	LOCK PLATE	1	
14-4	RMR1143-K	STOPPER	1	
14-5	RME0265	SPRING	1	
15	XQN16+AJ3FN	SCREW	6	
			Ť	
<b>1</b> A1	RFEA415C-S	AC ADAPTOR	1	
	RFA0627-K4	BATTERY CASE	1	
	RFKFP3GAVABA	RECHARGEABLE BATTERY ASS'Y	1	
	RFKNLS370-K	RECHRGE. BATT. CARRYING CAS	<u></u>	
	RFEV015PCKS	WIRED REMOTE CONTROL	1	
		STEREO EARPHONES	+	
	RQT4297~P	INSTRUCTION MANUAL		<ia></ia>
	RQT4514-C	INSTRUCTION MANUAL	1	
	SQX7185	WARRANTY CARD	<u>'</u>	
	SQX9131	SERVICENTER LIST	1	(PC)
	RKB205ZA-0	EAR PADS	1	(10)
	MOZOUZA U	EUN I NO		
C10 E	ECUZNC104ZFV	16V 0.1U	1	
	ECEVOGA471P	4V 470U		
		16V 22U	1	
			1	
U13	RCEOJSA4701X	6.3V 47U	1	

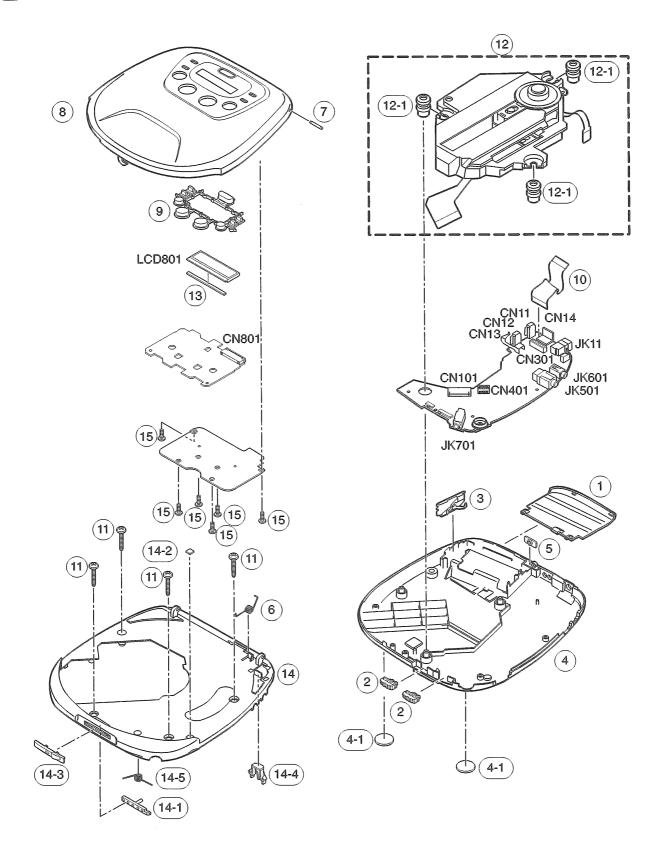
	C14	ECEAOJKA1011	6.3V 100U	1	ŀ
	C15-17	ECUVNA105ZFV	10V 1U	3	
	C18	ECSTOGY226RR	4V 22U	1	
ı	C19			_	
		ECUZNC104ZFV	16V 0.1U	1	
	C20	ECUV1E103KBV	25V 0.01U	1	
•	C21	ECUVNA105ZFV	10V 1U	1	
,	C22	ECUV1H561KBV	50V 560P	1	
	C23, 24	ECUVNA105ZFV	10V 1U	2	
)	C26	ECUVNA105ZFV	10V 1U	1	
	C27	ECST1AY475RR	10V 4.7U	1	
•	C30	ECUV1C104KBV	16V 0.1U	1	
	C31	ECUZNC104ZFV	16V 0.1U	1	
	C32	ECUV1H121JCV	50V 120P		
•				_ 1	
	C33	ECST1AY475RR	10V 4. 7U	1	
	C101	ECUVOJ474KBV	6.3V 0.47U	1	
	C102	ECUV1C104KBV	16V 0.1U	1	
	C103	ECUV1E223KBV	25V 0. 022U	1	
		ECUV1E103KBV			
•	C104		25V 0.01U	1	
	C105	ECUV1E223KBV	25V 0. 022U	1	
	C106	ECUV1H271KBV	50V 270P	1	
	C107	ECUV1H332KBV	50V 3300P	1	
	C108	ECUV1H391KBV			
				1	
	C112,13	ECUZNC104ZFV	16V 0.1U	2	
	C201	RCE0JSA4701X	6. 3V 47U	1	
	C202	ECST1AY225RR	10V 2.2U	1	
	C203	ECUVNA224KBV	10V 0.22U	1 <del>i</del>	
	<del></del>				
	C204	ECUV1H101JCV	50V 100P	11	
	C205	ECUV1E103KBV	25V 0.01U	1	
	C301	ECUZNC104ZFV	16V 0.1U	1	
	C302	ECUVNA105ZFV	10V 1U	$+\frac{1}{1}$	
	C401				
		ECUV1H102KBV	50V 1000P	_ 1	
	C402-05	ECUV1E123KBV	25V 0.012U	4	
	C406,07	ECUVNA105ZFV	10V 1U	2	
	C408	ECUZNC104ZFV	16V 0.1U	1	
٦	C501	ECUZNC104ZFV	16V 0.1U	1	
1	C502	ECUV1H561KBV			
-			50V 560P	1	
1	C503	ECUZNC104ZFV	16V 0.1U	_   1	
	C504	ECUV1E223KBV	25V 0022U	1	
٦	C506	ECUVNA224KBV	10V 0. 22U	1	
1	C507	ECUV0J474KBV	6. 3V 0. 47U	1	
1	C508			_	
-1		ECUV1E103KBV	25V 0.01U	1	
4	C509	ECEAOJKA2211	6.3V 220U	1	
_	C512,13	ECUV1H150DCV	50V 15P	2	
1	C516	ECUZNC104ZFV	16V 0.1U	1	
1	C517	ECUV1H102KBV	50V 1000P	1	
1	C601,02	ECUV1H102KBV			
-1:				2	
4	C603, 04	ECUV1H272KBV	50V 2700P	2	
	C605,06				
		ECST0JY106RR	6.3V 10U	2	
-1	C607, 08	ECSTOJY106RR ECUV1H681KBV	6.3V 10U 50V 680P	2	
10		ECUV1H681KBV	50V 680P	2	
$\ $	C610	ECUV1H681KBV ECA0JAK221XH	50V 680P 6.3V 220U	2 2	
	C610 C611	ECUV1H681KBV ECAOJAK221XH ECUZNC104ZFV	50V 680P 6.3V 220U 16V 0.1U	2 2 1	
	C610 C611 C703, 04	ECUV1H681KBV ECAOJAK221XH ECUZNC104ZFV ECUVNA105KBN	50V 680P 6.3V 220U 16V 0.1U 10V 1U	2 2	
	C610 C611	ECUV1H681KBV ECAOJAK221XH ECUZNC104ZFV	50V 680P 6.3V 220U 16V 0.1U	2 2 1	
	C610 C611 C703, 04	ECUV1H681KBV ECAOJAK221XH ECUZNC104ZFV ECUVNA105KBN	50V 680P 6.3V 220U 16V 0.1U 10V 1U	2 2 1 1 2 2	
	C610 C611 C703, 04 C705, 06 C713	ECUV1H681KBV ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH	50V 680P 6.3V 220U 16V 0.1U 10V 1U 4V 220U 6.3V 47U	2 2 1 1 2 2 2	
	C610 C611 C703, 04 C705, 06 C713 C717	ECUV1H681KBY ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV	50V 680P 6.3V 220U 16V 0.1U 10V 1U 4V 220U 6.3V 47U 16V 0.1U	2 2 1 1 2 2 1	
	C610 C611 C703, 04 C705, 06 C713	ECUV1H681KBV ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH	50V 680P 6.3V 220U 16V 0.1U 10V 1U 4V 220U 6.3V 47U	2 2 1 1 2 2 2	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23	ECUV1H681KBV ECADJAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECADJAK470XH ECUZNC104ZFV ECUZNC104ZFV	50V 680P 6.3V 220U 16V 0.1U 10V 1U 4V 220U 6.3V 47U 16V 0.1U 16V 0.1U	2 2 1 1 2 2 1	
	C610 C611 C703, 04 C705, 06 C713 C717	ECUV1H681KBY ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV	50V 680P 6.3V 220U 16V 0.1U 10V 1U 4V 220U 6.3V 47U 16V 0.1U	2 2 1 1 2 2 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23	ECUV1H681KBV ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV ECUZNC104ZFV RJC93015-1	50V 680P 6. 3V 220U 16V 0. 1U 10V 1U 4V 220U 6. 3V 47U 16V 0. 1U BATTERY TERMINAL	2 2 1 1 2 2 1 1 1 2 2	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23 CN11, 12 CN13	ECUVIH68 I KBV ECA0 JAK22 I XH ECUZNC104ZFV ECUVNA 10 5 KBN ECEA0 GPD 22 I I ECA0 JAK470 XH ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH5102-1	50V 680P 6.3V 220U 16V 0.1U 4V 220U 6.3V 47U 16V 0.1U 16V 0.1U 16V 1.1U BATTERY TERMINAL RECHARGE. BATT. TERMINAL	2 2 1 1 2 2 1 1 1 2	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23 CN11, 12 CN13 CN14	ECUV1H681KBV ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH9209-1	50V 680P 6.3V 220U 16V 0.1U 10V 1U 4V 220U 6.3V 47U 16V 0.1U 16V 0.1U 16K 0.1U BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECT TERMINAL	2 2 1 1 2 2 1 1 1 2 2 1 1 1 2	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23 CN11, 12 CN13 CN14 CN101	ECUVIH68 IKBV ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH5102-1 RJH9209-1 RJS2A6216T	50V 680P 6.3V 220U 16V 0.1U 10V 1U 4V 220U 6.3V 47U 16V 0.1U 16V 0.1U BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECT TERMINAL CONNECTOR (16P)	2 2 1 1 2 2 1 1 1 2 2 1 1 1 2 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23 CN11, 12 CN13 CN14	ECUV1H681KBV ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH9209-1	50V 680P 6.3V 220U 16V 0.1U 10V 1U 4V 220U 6.3V 47U 16V 0.1U 16V 0.1U 16K 0.1U BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECT TERMINAL	2 2 1 1 2 2 1 1 1 2 2 1 1 1 2	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23 CN11, 12 CN13 CN14 CN101	ECUVIH68 IKBV ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH5102-1 RJH9209-1 RJS2A6216T	50V 680P 6.3V 220U 16V 0.1U 10V 1U 4V 220U 6.3V 47U 16V 0.1U 16V 0.1U BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECT TERMINAL CONNECTOR (16P)	2 2 1 1 2 2 1 1 1 2 2 1 1 1 2 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23 CN11, 12 CN13 CN14 CN101 CN301 CN401	ECUV1H681KBV ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH5102-1 RJH5209-1 RJS2A6216T RJS2A6216T RJS2A6310TT	50V 680P 6.3V 220U 16V 0.1U 4V 220U 6.3V 47U 16V 0.1U 16V 0.1U 16V 0.1U BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECTOR (16P) CONNECTOR (30P) CONNECTOR (6P)	2 2 1 1 2 2 2 1 1 1 2 2 2 1 1 1 1 1 1 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23 CN11, 12 CN13 CN14 CN101 CN301	ECUVIH68 IKBV ECA0JAK221XH ECUJAK221XH ECUVAN105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH5102-1 RJH5209-1 RJS2A6130T	50V 680P 6.3V 220U 16V 0.1U 10V 1U 4V 220U 6.3V 4TU 16V 0.1U 16V 0.1U BATTERY TERMINAL RECHARGE. BATT. TERMINAL CONNECTOR (16P) CONNECTOR (30P)	2 2 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23  CN11, 12 CN13 CN14 CN101 CN301 CN301	ECUV1H681KBV ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH5102-1 RJH9209-1 RJS2A6216T RJS2A6130T RJS2A4530T	50V 680P 6.3V 220U 16V 0.1U 4V 220U 6.3V 47U 16V 0.1U 16V 0.1U 16V 0.1U 16T 0.1U BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECTOR (16P) CONNECTOR (16P) CONNECTOR (6P) CONNECTOR (30P)	2 2 1 1 2 2 1 1 1 2 2 1 1 1 1 2 1 1 1 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23  CN11, 12 CN13 CN14 CN101 CN301 CN401 CN801	ECUV1H681KBV ECA0JAK221XH ECUZWC104ZFV ECUZWC104ZFV ECUZWC104ZFV ECUZWC104ZFV ECUZWC104ZFV RJC93015-1 RJH5102-1 RJH9209-1 RJS2A6130T RJS2A6130T RJS2A4530T MA741WKTX	50V 680P 6. 3V 220U 16V 0. 1U 10V 1U 4V 220U 6. 3V 4TU 16V 0. 1U 16V 0. 1U BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECT TERMINAL CONNECTOR (16P) CONNECTOR (30P) D10DE	2 2 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23  CN11, 12 CN13 CN14 CN101 CN301 CN301	ECUV1H681KBV ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH5102-1 RJH9209-1 RJS2A6216T RJS2A6130T RJS2A4530T	50V 680P 6.3V 220U 16V 0.1U 4V 220U 6.3V 47U 16V 0.1U 16V 0.1U 16V 0.1U 16T 0.1U BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECTOR (16P) CONNECTOR (16P) CONNECTOR (6P) CONNECTOR (30P)	2 2 1 1 2 2 1 1 1 2 2 1 1 1 1 2 1 1 1 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23  CN11, 12 CN13 CN14 CN101 CN301 CN401 CN801	ECUV1H681KBV ECA0JAK221XH ECUZWC104ZFV ECUZWC104ZFV ECUZWC104ZFV ECUZWC104ZFV ECUZWC104ZFV RJC93015-1 RJH5102-1 RJH9209-1 RJS2A6130T RJS2A6130T RJS2A4530T MA741WKTX	50V 680P 6. 3V 220U 16V 0. 1U 10V 1U 4V 220U 6. 3V 47U 16V 0. 1U 16V 0. 1U BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECT TOR (16P) CONNECTOR (30P) CONNECTOR (30P) DIODE DIODE	2 2 1 1 1 2 2 2 1 1 1 1 2 2 1 1 1 1 1 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23 CN11, 12 CN13 CN14 CN101 CN301 CN401 CN801	ECUV1H681KBV ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH5102-1 RJH5102-1 RJH9209-1 RJS2A6216T RJS2A6216T RJS2A630T MA741WKTX MA111TX MA2Z00200L	50V 680P 6. 3V 220U 16V 0. 1U 4V 220U 6. 3V 47U 16V 0. 1U 16V 0. 1U 16V 0. 1U 16V 0. 1U BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECT TERMINAL CONNECTOR (30P) CONNECTOR (30P) DIODE DIODE	2 2 1 1 1 2 2 2 1 1 1 1 2 2 1 1 1 1 1 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23  CN11, 12 CN13 CN14 CN101 CN401 CN801  D11 D21 D24 D201	ECUVIH681KBV ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH5102-1 RJH5102-1 RJH9209-1 RJS2A6216T RJS2A630T RJS2A530T MA741WKTX MA111TX MA2Z00200L RB411DT146	50V 680P 6.3V 220U 16V 0.1U 10V 1U 4V 220U 6.3V 47U 16V 0.1U 16V 0.1U 16V 0.1U 16V 0.1U 16V 0.1U 6.3V 47U 16V 0.1U 16V 0.1U  BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECT TERMINAL CONNECTOR (30P) CONNECTOR (30P) CONNECTOR (30P) DIODE DIODE DIODE DIODE DIODE	2 2 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23  CN11, 12 CN13 CN14 CN101 CN301 CN801  D11 D21 D24 D201 D202	ECUV1H681KBV ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH5102-1 RJH5102-1 RJH9209-1 RJS2A6216T RJS2A6216T RJS2A630T RJS2A630T RMA741WKTX MA7241WKTX MA2ZD0200L RB411DT146 MA111TX	50V 680P 6.3V 220U 16V 0.1U 10V 1U 4V 220U 6.3V 47U 16V 0.1U 16V 0.1U 16V 0.1U 16V 0.1U BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECTOR (16P) CONNECTOR (30P) CONNECTOR (30P) DIODE DIODE DIODE DIODE DIODE DIODE	2 2 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23  CN11, 12 CN13 CN14 CN101 CN401 CN801  D11 D21 D24 D201	ECUVIH681KBV ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH5102-1 RJH5102-1 RJH9209-1 RJS2A6216T RJS2A630T RJS2A530T MA741WKTX MA111TX MA2Z00200L RB411DT146	50V 680P 6.3V 220U 16V 0.1U 10V 1U 4V 220U 6.3V 47U 16V 0.1U 16V 0.1U 16V 0.1U 16V 0.1U 16V 0.1U 6.3V 47U 16V 0.1U 16V 0.1U  BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECT TERMINAL CONNECTOR (30P) CONNECTOR (30P) CONNECTOR (30P) DIODE DIODE DIODE DIODE DIODE	2 2 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23  CN11, 12 CN13 CN14 CN101 CN301 CN801  D11 D21 D24 D201 D202	ECUV1H681KBV ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH5102-1 RJH5102-1 RJH9209-1 RJS2A6216T RJS2A6216T RJS2A630T RJS2A630T RMA741WKTX MA7241WKTX MA2ZD0200L RB411DT146 MA111TX	50V 680P 6.3V 220U 16V 0.1U 10V 1U 4V 220U 6.3V 47U 16V 0.1U 16V 0.1U 16V 0.1U 16V 0.1U BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECTOR (16P) CONNECTOR (30P) CONNECTOR (30P) DIODE DIODE DIODE DIODE DIODE DIODE	2 2 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23 CN11, 12 CN13 CN14 CN101 CN301 CN401 CN801 D11 D21 D24 D201 D202 D301, 02	ECUVIH681KBV ECA0JAK221XH ECUZNC104ZFV ECUZNC104ZFV ECUZNC104ZFV ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH9102-1 RJH9209-1 RJS2A616T RJS2A616T RJS2A616T RJS2A630T MA741WKTX MA111TX MA2ZD0220L RB411DT146 MA111TX MA142WKTX MA1142WKTX	50V 680P 6. 3V 220U 16V 0. 1U 10V 1U 4V 220U 6. 3V 47U 16V 0. 1U 16V 0. 1U  BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECT TERMINAL CONNECTOR (30P) CONNECTOR (30P) DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE	2 2 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23  CN11, 12 CN13 CN14 CN101 CN301 CN401 CN801  D11 D21 D24 D201 D202 D301, 02	ECUVIH681KBV ECA0JAK221XH ECUZNC104ZFV ECUZNC104ZFV ECUZNC104ZFV ECUZNC104ZFV ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH5102-1 RJH5102-1 RJS2A6130T RJS2A6130T RJS2A6130T RJS2A6130T RJS2A6130T RJS2A6130T MA741WKTX MA111TX MA2Z00200L RM4111TX	50V 680P 6. 3V 220U 16V 0. 1U 10V 1U 4V 220U 6. 3V 47U 16V 0. 1U 16V 0. 1U 16V 0. 1U 16V 0. 1U  BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECT TERMINAL CONNECTOR (6P) CONNECTOR (6P) CONNECTOR (30P) DIODE DIODE DIODE DIODE DIODE DIODE DIODE	2 2 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23  CN11, 12 CN13 CN14 CN101 CN301 CN401 CN801  D11 D21 D22 D201 D202 D301, 02 D901 D931	ECUVIH681KBV ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH5102-1 RJH5102-1 RJH9209-1 RJS2A6216T RJS2A6216T RJS2A630T MA741WKTX MA2Z00200L RB411DT146 MA111TX MA142WKTX MA142WKTX MA142WKTX MA142WKTX MA142WKTX MA142WKTX MA142WKTX	50V 680P 6.3V 220U 16V 0.1U 10V 1U 4V 220U 6.3V 47U 16V 0.1U 16V 0.1U 16V 0.1U 16V 0.1U 16V 0.1U  BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECT TERMINAL CONNECTOR (30P) CONNECTOR (30P) CONNECTOR (30P) DIODE	2 2 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23 CN11, 12 CN13 CN14 CN101 CN301 CN401 CN801 D11 D21 D24 D201 D202 D301, 02	ECUVIH681KBV ECA0JAK221XH ECUZNC104ZFV ECUZNC104ZFV ECUZNC104ZFV ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH9102-1 RJH9209-1 RJS2A616T RJS2A616T RJS2A616T RJS2A630T MA741WKTX MA111TX MA2ZD0220L RB411DT146 MA111TX MA142WKTX MA1142WKTX	50V 680P 6. 3V 220U 16V 0. 1U 10V 1U 4V 220U 6. 3V 47U 16V 0. 1U 16V 0. 1U  BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECT TERMINAL CONNECTOR (30P) CONNECTOR (30P) DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE	2 2 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	
	C610 C611 C703, 04 C705, 06 C713 C717 C922, 23  CN11, 12 CN13 CN14 CN101 CN301 CN401 CN801  D11 D21 D22 D201 D202 D301, 02 D901 D931	ECUVIH681KBV ECA0JAK221XH ECUZNC104ZFV ECUVNA105KBN ECEA0GPD2211 ECA0JAK470XH ECUZNC104ZFV ECUZNC104ZFV RJC93015-1 RJH5102-1 RJH5102-1 RJH9209-1 RJS2A6216T RJS2A6216T RJS2A630T MA741WKTX MA2Z00200L RB411DT146 MA111TX MA142WKTX MA142WKTX MA142WKTX MA142WKTX MA142WKTX MA142WKTX MA142WKTX	50V 680P 6.3V 220U 16V 0.1U 10V 1U 4V 220U 6.3V 47U 16V 0.1U 16V 0.1U 16V 0.1U 16V 0.1U 16V 0.1U  BATTERY TERMINAL RECHARGE. BATT. TERMINAL BATT. CONNECT TERMINAL CONNECTOR (30P) CONNECTOR (30P) CONNECTOR (30P) DIODE	2 2 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	

Part No. Part Name & Description Pcs ECEAOJKA1011 6.3V 100U 1

IC301   SC440306CFU   IC	R204   R205   R206   R207   R208   R207   R208   R209   R210   R213   R214   R215   R216   R217   R218   R219   R302   R304   R305   R304   R305   R507   R506   R507   R508   R509   R509   R510	ERJ3GEYJ473V ERJ3GEYJ332V ERJ3GEYJ332V ERJ3GEYJ3332V ERJ3GEYJ332V ERJ3GEYJ3332V ERJ3GEYJ3332V ERJ3GEYJ3332V ERJ3GEYJ3333V ERJ3GEYJ3333V ERJ3GEYJ3333V ERJ3GEYJ3332V ERJ3GEYJ474V ERJ3GEYJ474V ERJ3GEYJ474V ERJ3GEYJ473V ERJ3GEYJ224V ERJ3GEYJ332V ERJ3GEYJ473V ERJ3GEYJ332V ERJ3GEYJ473V ERJ3GEYJ104Z	1/16W 1.2K 1/16W 33K 1/16W 33K 1/16W 32K 1/16W 3.3K 1/16W 100K 1/16W 33K 1/16W 10K 1/16W 33K 1/16W 10K 1/16W 33K 1/16W 39K 1/16W 39K 1/16W 39K 1/16W 32CK 1/16W 370K 1/16W	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
IC401	R205   R206   R207   R208   R208   R209   R210   R213   R214   R215   R216   R217   R218   R219   R301   R302   R304   R305   R306   R507   R508   R509   R509   R510	ERJ3GEYJ333V ERJ3GEYJ323V ERJ3GEYJ363V ERJ3GEYJ363V ERJ3GEYJ333V ERJ3GEYJ333V ERJ3GEYJ322V ERJ3GEYJ382V ERJ3GEYJ382V ERJ3GEYJ382V ERJ3GEYJ324V ERJ3GEYJ332V ERJ3GEYJ332V ERJ3GEYJ332V ERJ3GEYJ473V ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ392V ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ392V ERJ3GEYJ392V ERJ3GEYJ392V ERBV44V222JV ERBV44V22JV ERBV44V103JV ERBJ3GEYJ391V	1/16W 33K 1/16W 22K 1/16W 3.3K 1/16W 100K 1/16W 33K 1/16W 10K 1/16W 33K 1/16W 39K 1/16W 6.8K 1/16W 470K 1/16W 220K 1/16W 3.3K 1/16W 10K 1/16W 3.9K 1/16W 3.9K 1/16W 3.9K 1/16W 3.9K 1/16W 1K 1/16W 1K 1/16W 3.9K 1/16W 3.9K 1/16W 3.9K 1/32W 2.2K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
ICS01	R206 R207 R208 R207 R208 R210 R213 R214 R215 R215 R216 R217 R218 R219 R301 R302 R304 R305 R306 R507 R500 R500 R500 R500 R500 R500	ERJ3GEYJ223V ERJ3GEYJ332V ERJ3GEYJ332V ERJ3GEYJ333V ERJ3GEYJ333V ERJ3GEYJ333V ERJ3GEYJ333V ERJ3GEYJ322V ERJ3GEYJ368V ERJ3GEYJ368V ERJ3GEYJ368V ERJ3GEYJ374V ERJ3GEYJ474V ERJ3GEYJ474V ERJ3GEYJ474V ERJ3GEYJ473V ERJ3GEYJ473V ERJ3GEYJ473V ERJ3GEYJ473V ERJ3GEYJ473V ERJ3GEYJ104Z	1/16W 22K 1/16W 3.3K 1/16W 100K 1/16W 56K 1/16W 33K 1/16W 10K 1/16W 39K 1/16W 39K 1/16W 47OK 1/16W 220K 1/16W 3.3K 1/16W 47K 1/16W 3.3K 1/16W 1/16W 3.3K 1/16W 1/16W 3.3K 1/16W	1 1 1 1 1 1	
ICS02	R207 R208 R209 R210 R213 R214 R215 R216 R217 R218 R219 R301 R301 R304 R305 R306 R501 R500 R5007 R5008 R5010 R5010	ERJ3GEYJ332V ERJ3GEYJ1042 ERJ3GEYJ563V ERJ3GEYJ333V ERJ3GEYJ822V ERJ3GEYJ822V ERJ3GEYJ462V ERJ3GEYJ474V ERJ3GEYJ474V ERJ3GEYJ4732V ERJ3GEYJ473V ERJ3GEYJ473V ERJ3GEYJ332V ERJ3GEYJ473V ERJ3GEYJ392V ERJ3GEYJ392V ERJ3GEYJ392V ERJ3GEYJ392V ERJ3GEYJ392V ERBY44V222JV ERBY44V103JV ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z	1/16W 3.3K 1/16W 100K 1/16W 56K 1/16W 33K 1/16W 30K 1/16W 38K 1/16W 39K 1/16W 39K 1/16W 470K 1/16W 220K 1/16W 3.3K 1/16W 47K 1/16W 47K 1/16W 1/16W 47K 1/16W 1/16W 3.9K 1/16W 3.9K 1/16W 3.9K 1/16W 3.9K 1/16W 3.9K 1/16W 3.9K	1 1 1 1 1 1	
IC701   NJU7082BVTE1   IC	R208 R209 R210 R211 R213 R214 R215 R216 R217 R218 R219 R301 R302 R304 R305 R306 R501 R502 R506 R507 R508 R508 R509 R510	ERJ3GEYJ104Z ERJ3GEYJ563Y ERJ3GEYJ363Y ERJ3GEYJ393Y ERJ3GEYJ393Y ERJ3GEYJ474Y ERJ3GEYJ474Y ERJ3GEYJ474Y ERJ3GEYJ474Y ERJ3GEYJ24Y ERJ3GEYJ1473Y ERJ3GEYJ104Z	1/16W 100K 1/16W 56K 1/16W 33K 1/16W 10K 1/16W 3.2K 1/16W 3.9K 1/16W 470K 1/16W 2.20K 1/16W 2.20K 1/16W 47K 1/16W 47K 1/32W 47K 1/32W 47K 1/16W 3.9K 1/16W 3.9K 1/32W 2.2K 1/32W 10K	1 1 1 1 1 1	
⚠ ICP11         UNH000700A         IC PROTECTOR         1           JK11         RJJ43K09-C         JACK, DC IN         1           JK601         RJJ03S5ZA-C         JACK, OUT         1           JK701         RJ36702-C         JACK, HEADPHONE         1           L11         RLQ331KT-W         COIL         1           L12         RLQS101KT1-T         COIL         1           L13         RLQ331KT-W         COIL         1           L201         RLQ8471KT-T         COIL         1           L202         RLQ330KT1-D         COIL         1           L601, 02         RLBV102V-Y         COIL         2           LCD801         RSL5199-C         LCD DISPLAY         1           P1         RPN1125         COVER         1         (P)           P2         RPN1124         TRAY         1         (P)           P3         RPQ846         GRUND PAPER         1         (P)           P4         RPQ0855         TRAY         1         (P)	R210 R213 R214 R215 R216 R217 R218 R219 R301 R302 R304 R305 R306 R507 R501 R502 R506 R507 R508 R509 R510	ERJ3GEYJ333V ERJ3GEYJ103Z ERJ3GEYJ323V ERJ3GEYJ333V ERJ3GEYJ362Y ERJ3GEYJ224V ERJ3GEYJ3224V ERJ3GEYJ332Y ERJ3GEYJ473V ERJ3GEYJ1032V ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z	1/16W 33K 1/16W 10K 1/16W 8. 2K 1/16W 39K 1/16W 470K 1/16W 220K 1/16W 3. 3K 1/16W 3. 3K 1/16W 47K 1/16W 11/16W 11/	1 1 1 1 1 1	
JK11 RJJ43K09-C JACK, DC IN 1  JK601 RJJ0355ZA-C JACK, OUT 1  JK701 RJJ36T02-C JACK, HEADPHONE 1  L11 RLQU331KT-W COIL 1  L12 RLQS101KT1-T COIL 1  L13 RLQU331KT-W COIL 1  L201 RLQS471KT-T COIL 1  L202 RLQ330KT1-D COIL 1  L601, 02 RLBV102V-Y COIL 2  LCD801 RSL5199-C LCD DISPLAY 1  P1 RPN1125 COVER 1  P2 RPN1124 TRAY 1  P3 RPQ0846 GRUND PAPER 1  P4 RPQ0855 TRAY 1 (P)	R213 R214 R215 R216 R217 R218 R219 R301 R302 R304 R305 R306 R501 R500 R500 R501 R501 R501 R501 R501	ERJ3GEYJ103Z ERJ3GEYJ322Y ERJ3GEYJ323Y ERJ3GEYJ682Y ERJ3GEYJ224Y ERJ3GEYJ224Y ERJ3GEYJ332Y ERJ3GEYJ473Y ERJ3GEYJ102Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z	1/16W 10K 1/16W 8.2K 1/16W 39K 1/16W 470K 1/16W 420K 1/16W 3.3K 1/16W 3.3K 1/16W 47K 1/32W 47K 1/16W 11K 1/16W 100K 1/16W 3.9K 1/32W 2.2K 1/32W 10K	1 1 1 1 1 1	
JK11	R214 R215 R216 R217 R217 R218 R219 R301 R302 R304 R305 R306 R501 R502 R506 R507 R508 R509 R510	ERJ3GEYJ822V ERJ3GEYJ393V ERJ3GEYJ474V ERJ3GEYJ224V ERJ3GEYJ3224V ERJ3GEYJ332V ERJ3GEYJ473V ERJ3GEYJ102Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ392V ERBV4V103JV ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z	1/16W 8. 2K 1/16W 39K 1/16W 6. 8K 1/16W 470K 1/16W 220K 1/16W 3. 3K 1/16W 47K 1/32W 47K 1/16W 1K 1/16W 100K 1/16W 3. 9K 1/32W 2. 2K 1/32W 10K	1 1 1 1 1	
JK601	R215 R216 R217 R218 R219 R301 R302 R304 R305 R306 R501 R502 R506 R507 R508 R509 R510	ERJ3GEYJ393V ERJ3GEYJ474V ERJ3GEYJ224V ERJ3GEYJ3232V ERJ3GEYJ332V ERJ3GEYJ3732V ERJ3GEYJ102Z ERJ3GEYJ102Z ERJ3GEYJ104Z ERJ3GEYJ392V EXBV4Y103JV ERJ3GEYJ391V ERJ3GEYJ391V	1/16W 39K 1/16W 6.8K 1/16W 470K 1/16W 220K 1/16W 3.3K 1/16W 47K 1/32W 47K 1/16W 1K 1/16W 100K 1/16W 3.9K 1/32W 2.2K 1/32W 10K	1 1 1 1	
JK701	R216 R217 R218 R219 R301 R302 R304 R305 R306 R501 R502 R506 R507 R508 R508 R509 R510	ERJ3GEYJ682V ERJ3GEYJ24Y ERJ3GEYJ224V ERJ3GEYJ322V ERJ3GEYJ373V ERJ3GEYJ102Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z	1/16W 6.8K 1/16W 470K 1/16W 220K 1/16W 3.3K 1/16W 3.3K 1/16W 47K 1/32W 47K 1/16W 11K 1/16W 100K 1/16W 3.9K 1/32W 2.2K	1 1 1 1	
L11 RLQU331KT-W COIL 1  L12 RLQS101KT1-T COIL 1  L13 RLQU331KT-W COIL 1  L201 RLQS471KT-T COIL 1  L202 RLQQ330KT1-D COIL 1  L601, 02 RLBV102Y-Y COIL 2  LCD801 RSL5199-C LCD DISPLAY 1  P1 RPN1125 COVER 1 (P)  P2 RPN1124 TRAY 1 (P)  P3 RPQ0846 GRUND PAPER 1 (P)  P4 RPQ0855 TRAY 1 (P)	R217 R218 R219 R301 R302 R304 R305 R306 R501 R502 R506 R507 R508 R509 R510	ERJ3GEYJ474V ERJ3GEYJ322V ERJ3GEYJ473V ERJ3GEYJ473V ERJ3GEYJ102Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z EXBV4V103JV ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ104Z	1/16W 470K 1/16W 220K 1/16W 3.3K 1/16W 47K 1/32W 47K 1/16W 11K 1/16W 100K 1/16W 3.9K 1/132W 2.2K 1/32W 10K	1 1 1	
L11 RLQ331KT-W COIL 1 L12 RLQ310KT1-T COIL 1 L13 RLQ331KT-W COIL 1 L201 RLQ471KT-T COIL 1 L202 RLQ330KT1-D COIL 1 L601,02 RLBV102Y-Y COIL 2 LCD801 RSL5199-C LCD DISPLAY 1 P1 RPN1125 COVER 1 (P) P2 RPN1124 TRAY 1 (P) P3 RPQ0846 GRUND PAPER 1 (P) P4 RPQ0855 TRAY 1 (P)	R218 R219 R301 R302 R304 R305 R306 R501 R502 R506 R507 R508 R509 R510	ERJ3GEYJ224V ERJ3GEYJ332V ERJ3GEYJ473V ERBJ3GEYJ102Z ERJ3GEYJ102Z ERJ3GEYJ104Z EXBV4V103JV ERJ3GEYJ104Z ERJ3GEYJ104Z ERJ3GEYJ391V	1/16W 220K 1/16W 3. 3K 1/16W 47K 1/32W 47K 1/16W 1K 1/16W 100K 1/16W 3. 9K 1/32W 2. 2K 1/32W 10K	1 1 1	7
L12	R219 R301 R302 R304 R305 R306 R501 R502 R506 R507 R508 R509 R510	ERJ3GEYJ332V ERJ3GEYJ473V EXBV4V473JV ERJ3GEYJ102Z ERJ3GEYJ104Z ERJ3GEYJ392V EXBV4V222JV EXBV4V103JV ERJ3GEYJ304Z ERJ3GEYJ391V	1/16W 3. 3K 1/16W 47K 1/32W 47K 1/16W 1K 1/16W 100K 1/16W 3. 9K 1/32W 2. 2K 1/32W 10K	1	
L201   RLQS471KT-T   COIL   1	R302 R304 R305 R306 R501 R502 R506 R507 R508 R509 R510	EXBV4V473JV ERJ3GEYJ102Z ERJ3GEYJ104Z ERJ3GEYJ392V EXBV4V222JV EXBV4V103JV ERJ3GEYJ104Z ERJ3GEYJ391V	1/32W 47K 1/16W 1K 1/16W 100K 1/16W 3. 9K 1/32W 2. 2K 1/32W 10K	1	
L202	R304 R305 R306 R501 R502 R506 R507 R508 R509 R510	ERJ3GEYJ104Z ERJ3GEYJ392V ERJ3GEYJ392V EXBV4V222JV EXBV4V103JV ERJ3GEYJ104Z ERJ3GEYJ391V	1/16W 1K 1/16W 100K 1/16W 3.9K 1/32W 2.2K 1/32W 10K		
LCD801 RSL5199-C   LCD DISPLAY   1	R305 R306 R501 R502 R506 R507 R508 R509 R510	ERJ3GEYJ104Z ERJ3GEYJ392V EXBV4V222JV EXBV4V103JV ERJ3GEYJ104Z ERJ3GEYJ391V	1/16W 100K 1/16W 3.9K 1/32W 2.2K 1/32W 10K	1 1	
LCD801 RSL5199-C	R306 R501 R502 R506 R507 R508 R509 R510	ERJ3GEYJ392V EXBV4V222JV EXBV4V103JV ERJ3GEYJ104Z ERJ3GEYJ391V	1/16W 3.9K 1/32W 2.2K 1/32W 10K	1	
CD801   RSL5199-C   LCD DISPLAY   1	R501 R502 R506 R507 R508 R509	EXBV4V222JV EXBV4V103JV ERJ3GEYJ104Z ERJ3GEYJ391V	1/32W 2.2K 1/32W 10K	-1	
P1 RPN1125 COVER 1 (P) P2 RPN1124 TRAY 1 (P) P3 RPQ0846 GRUND PAPER 1 (P) P4 RPQ0855 TRAY 1 (P)	R502 R506 R507 R508 R509 R510	EXBV4V103JV ERJ3GEYJ104Z ERJ3GEYJ391V	1/32W 10K	-	1.
P1 RPN1125 COVER 1 (P) P2 RPN1124 TRAY 1 (P) P3 RPQ0846 GRUND PAPER 1 (P) P4 RPQ0855 TRAY 1 (P)	R506 R507 R508 R509 R510	ERJ3GEYJ104Z ERJ3GEYJ391V		1	
P2         RPN1124         TRAY         1 (P)           P3         RPQ0846         GRUND PAPER         1 (P)           P4         RPQ0855         TRAY         1 (P)	R507 R508 R509 R510	ERJ3GEYJ391V	17.100 1001	1	
P4 RPQ0855 TRAY 1 (P)	R509 R510	ERJ3GEYJ563V	1/16W 390	1	
	R510		1/16W 56K	1	
I DII IDOKINGA IDACKING CASE   11/00)			1/16W 68K	LÎ.	
			1/16W 22K	1	
			1/16W 4.7K	1	
			1/16W 10K	- <u>;</u>	
			1/16W 2.2K	1	
			1/16W 220K	1	
Q13 2SD1328STTX TRANSISTOR 1	R524	ERJ3GEY0R00V	CHIP JUMPER	1	
			1/16W 330K	1	
			1/16W 680	2	
			1/16W 560	2	
, , , , , , , , , , , , , , , , , , , ,		ERJ3GEYJ473V EXBV4V332JV	1/16W 47K 1/32W 3.3K	2	
			1/16W 1K	2	
		EXBV4V153JV	1/32W 15K	1	
			1/16W 47K	2	
		EXBV4V473JV	1/32W 47K	1	
		EXBV4V273JV	1/32W 27K	1	
			1/16W 15	2	
		ERJ3GEYJ1R5V EXBV4V331JV	1/16W 1.5 1/32W 330	1	
		EXBV4V472JV	1/32W 4.7K	1	
			1/16W 270K	1	
	R902	ERJ3GEYJ474V	1/16W 470K	1	
		EXBV4V821JV	1/32W 820	1	
			1/16W 68	1	
		ERJ3GEYJ470V		1	
		ERJ3GEYJ473V ERJ3GEYJ393V	1/16W 47K 1/16W 39K		
		ERJ3GEYJ104Z		2	2
R14 ERJ3GEYJ223V 1/16W 22K 1		ERJ3GEYJ823V		1	
		ERJ3GEYJ224V		_1	
		ERJ3GEYJ123V		1	
R18	R938	ERJ3GEYJ393V	1/16W 39K	1	-
	RJ504	ERJ3GEYOROOV	CHIP HIMPER	-	
		ERJ3GEYOROOV		1	·
		ERJ3GEYOROOV		1	` <u> </u>
R23 ERJ3GEYJ104Z 1/16W 100K 1		ERJ3GEY0R00V		1	:
		ERJ3GEY0R00V		1	
	RJ515	ERJ3GEYOROOV	CHIP JUMPER	1	1
R32 ERJ3GEYJ103Z 1/16W 10K 1 R102 ERJ3GEYJ563V 1/16W 56K 1	DIVESA	ED LOOF YOUR CO	OULD HIMDED	<u> </u>	
		ERJ3GEYOROOV ERJ3GEYOROOV		1	
		ERJ3GEYOROOV			<u>'</u>
R106,07 ERJ3GEYJ330V 1/16W 33 2			S.III VOMILEN	+	
	S201	ESE11SV6	SW	1	
R111 ERJ3GEY0R00V CHIP JUMPER 1		ESE11HS4	SW	1	
		RSS3A007-1A	SW	1	
R202 ERJ3GEYJ222V 1/16W 2.2K 1	S302	RSS2A010-1A	SW	1	1
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Ref. No. 8801-09	Part No. RSG0038-P	SW Description	9	Nemal R5	Ke1. NO.	rait NO.	rait Name & Description	II'C	s Remark:
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3A2	322P1056C	ONEAEM LEST DISC	1					L	
VR11	RRN3A05B33WL	VR	1					-	
VR701	RRN3A05B33WL EVUTUEB09C54	VR	1					╁	
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### **■ Cabinet Parts Location**



## Packaging

• For SL-SX500 (P) only

