



SERVICE MANUAL

COMPACT COMPONENT CDR SYSTEM

NX-CDR7R

Supplement

Area Suffix

B U.K.
 E ---- Continental Europe
 EN Northern Europe

- Substitute the page 1-2 on this supplement for the page 1-3 on the original manual
 (A drawing for "1-2 Handling the traverse unit" was missing.
 Substitute the page 1-3,4,5 on this supplement for the page 1-29,30,31 on the original manual.

**The CDR unit (Parts No.EMU-R7-11M) can be replaced as unit basis.
 Please make sure if the CDR unit is surely faulty with SYSTEM AGING 1
 described on page 1-4 of this supplement.**

Contents

Preventing static electricty-----1-2
Adjustment method-----1-3
 Confirm method of operation-----1-4
 Check mode
 Service menu1
 Service menu2-----1-5

Preventing static electricity

Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.1. Grounding to prevent damage by static electricity

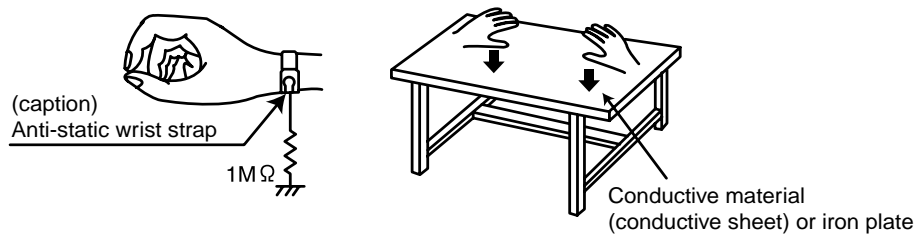
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as DVD players. Be careful to use proper grounding in the area where repairs are being performed.

1.1.1. Ground the workbench

1. Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

1.1.2. Ground yourself

1. Use an anti-static wrist strap to release any static electricity built up in your body.

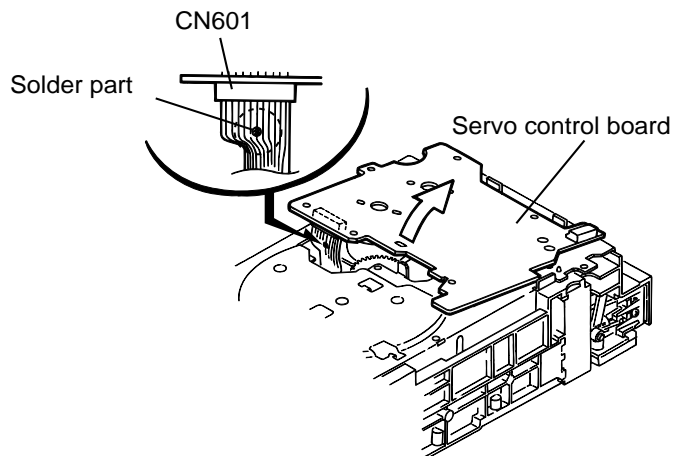


1.1.3. Handling the optical pickup

1. In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
2. Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

1.2. Handling the traverse unit (optical pickup)

1. Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
2. Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
3. Handle the flexible cable carefully as it may break when subjected to strong force.
4. It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it



Adjustment method

Measurement instruments required for adjustment

1. Low frequency oscillator,
This oscillator should have a capacity to output 0dBs to 600ohm at an oscillation frequency of 50Hz-20kHz.
2. Attenuator impedance : 600ohm
3. Electronic voltmeter
4. Frequency counter
5. Test disc
: CTS-1000(12cm),CRG-1211(8cm)

Measurement conditions

Power supply voltage
AC120V(60Hz)

Measurement
output terminal : Speaker out
: Dummy load 6ohm

Radio input signal

AM modulation frequency : 400Hz
Modulation factor : 30%
FM modulation frequency : 400Hz
Frequency displacement : 22.5kHz

Frequency Range

AM 531kHz~1710kHz
FM 87.5MHz~108MHz

Standard measurement positions of volume and switch

Power : Standby (Light STANDBY Indicator)
Sub woofer VOL. : Minimum
Sound mode : OFF
Main VOL. : Minimum
Traverse mecha set position : Disc 1

Precautions for measurement

1. Apply 30pF and 33kohm to the IF sweeper output side and 0.082 F and 100kohm in series to the sweeper input side.
2. The IF sweeper output level should be made as low as possible within the adjustable range.
3. Since the IF sweeper is a fixed device, there is no need to adjust this sweeper.
4. Since a ceramic oscillator is used, there is no need to perform any MPX adjustment.
5. Since a fixed coil is used, there is no need to adjust the FM tracking.
6. The input and output earth systems are separated. In case of simultaneously measuring the voltage in both of the input and output systems with an electronic voltmeter for two channels, therefore, the earth should be connected particularly.
7. In the case of BTL connection amplifier, the minus terminal of speaker is not for earthing. Therefore, be sure not to connect any other earth terminal to this terminal. This system is of an OTL system.

Confirm method of operation

■ **Check mode**

- 1.All lighting FL display
 - 2.Reducing time operation of clock
 - 3.Service menu 1
 - 4.Service menu 2
- } TEST MODE 1
- } TEST MODE 2

<How to set on TEST MODE 1>

Plug AC power cord into AC outlet while pressing "REC MUTE" and "B.SKIP" button simultaneously.

<Setting method of TEST MODE 2>

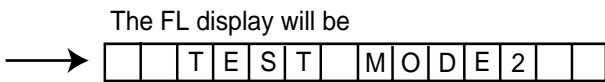
Plug AC power cord into AC outlet while pressing "REC MUTE" and "F.SKIP" button simultaneously.

<How to release TEST MODE>

Unplug AC power cord from AC outlet.

■ **Service menu 1**

Set TEST MODE 1(As described above)

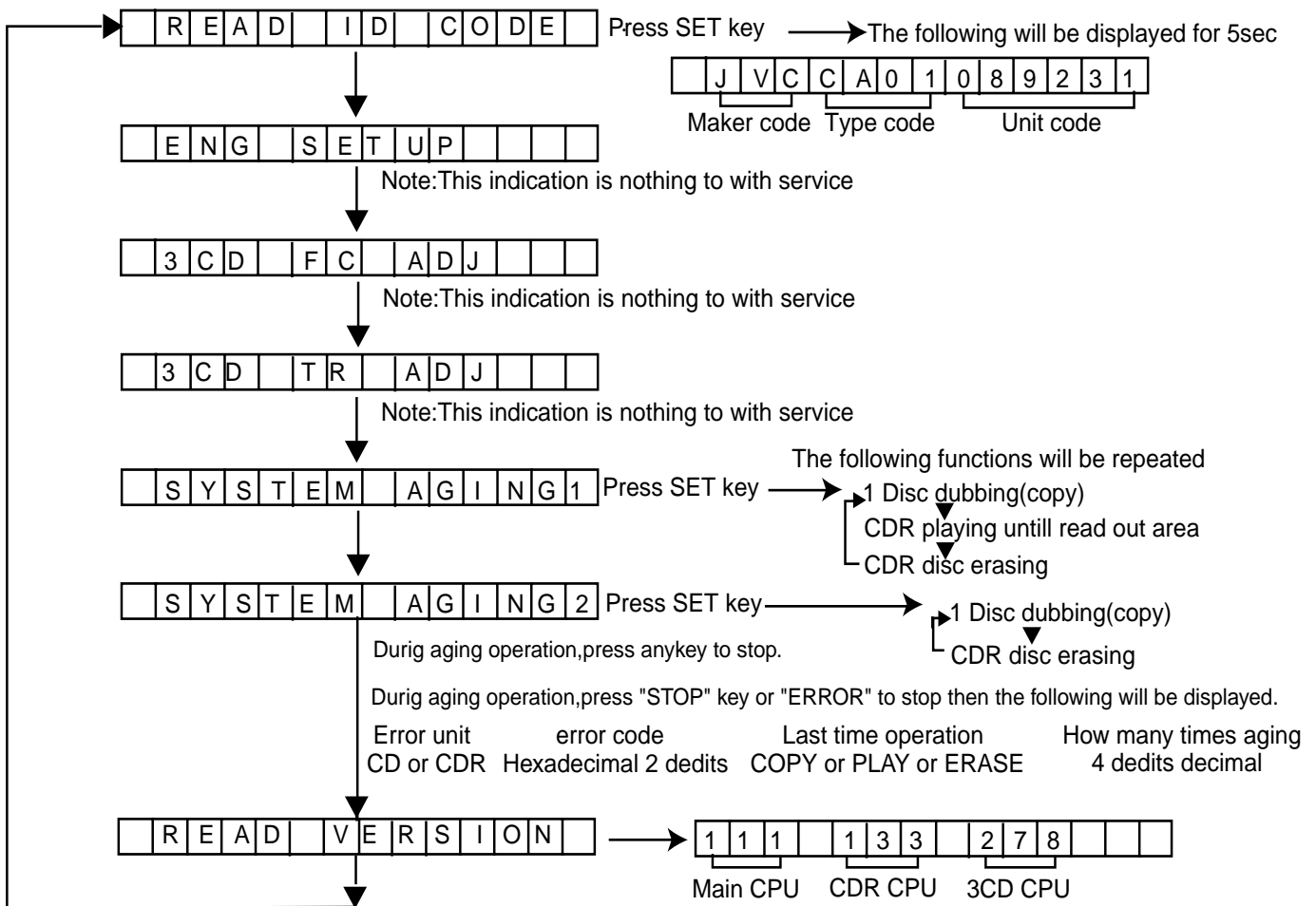


Press F.SKIP + POWER key simultaneously = POWER ON

The power on will turn on and the FL display will go back to normal

Set STOP mode on 3CD or CDR

Each time MENU is pressed and mode will be changed as below



■ Service menu 2

Set TEST MODE 2(Refer to page 1-4)

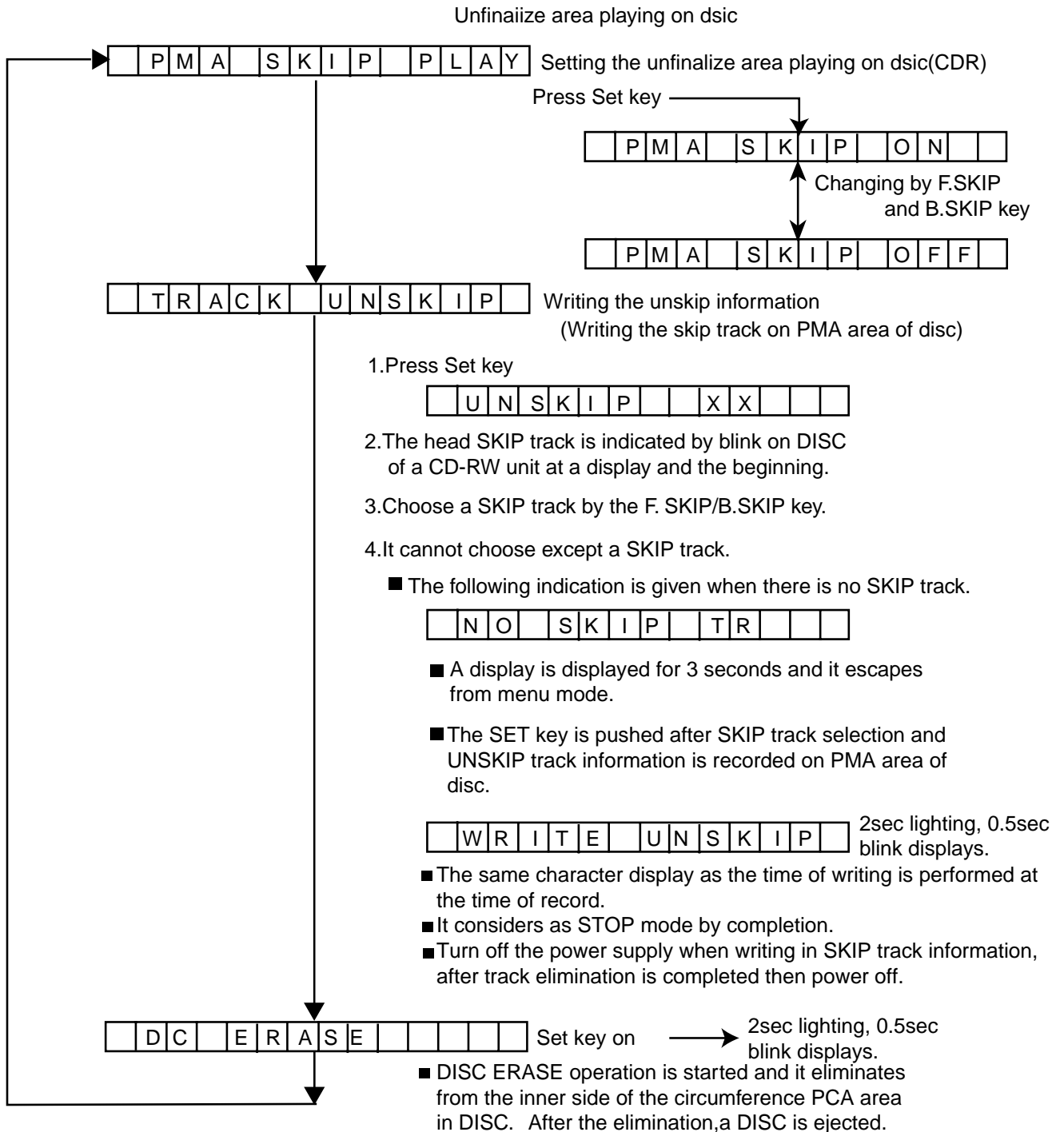


Press F.SKIP + POWER key simultaneously =

→ The power on will turn on and the FL display will go back to normal.

Set STOP mode on 3CD or CDR

Each time MENU is pressed and mode will be changed as below





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