

## SERVICE TECHNICAL INFORMATION

### ONE POINT REPAIR

UTSUNOMIYA, AUG. 31, 1998  
REF. NO.: SI-98-023  
CUSTOMER RELATIONS & SERVICE DIV.

MODEL : AM-F7

SUBJECT : Backlight of LCD does not light up, or characters on LCD are missing on the LCD remote controller.

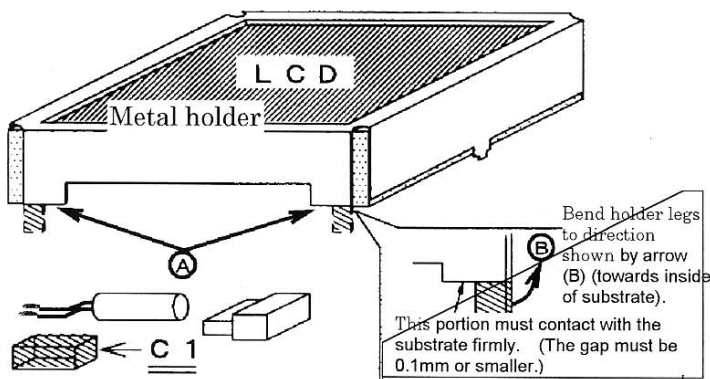
CONTENTS : If backlight of LCD does not light up, or characters on LCD are missing on LCD remote controller, perform the following remedy.

REMEDY : A) LCD and the substrate are connected with each other by a piece of conducting rubber. To increase contacting pressure of the rubber contacts, lower the metal holder which holds the LCD. (See explanation below for procedures.)

B) Replace the capacitor (Ref: C1 15PF) with the part shown below (see Figure 1 for location of the part). Although a 1005-part type (capacitor) is used by standard configuration, a 1608-part type is easier to use when replacing the part.

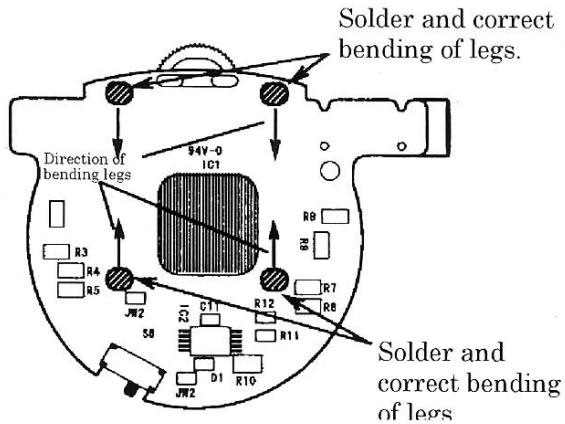
\* Part number: 87-012-169-080 Capacitor, 7PF (1608 type)

[Changing position of the metal holder]



- 1) As shown by the (A) points in Figure 1, contacting pressure of the conducting rubber is weakened due to the gaps between substrate and metal holder.
- 2) To eliminate the gaps at the (A) points, melt the solder of the legs and press in the holder so that no gaps exist between the substrate and the holder at (A) points in figure 1. Then, bend all four legs of the holder (according to figure 2).

Figure 1. Gap between metal holder and substrate



## [Notes on correcting the metal holder]

- To bend the legs correctly without removing the solder, press the legs with a soldering iron to melt solder around the legs.
- Pressing the holder before melting solder may result in breaking conductor traces on printed circuit boards. Overheating may also result in breaking conductor traces.
- Securely bend the legs to nearly 90 degrees and be certain that no gap exist between the substrate and holder.

Figure 2. Soldering points of the metal holder

\* Bending of a substrate causes stress on solder, and may result in breaking of solder. Perform repair work carefully as not to cause bending of a substrate.

### - Cabinet opening method of the remote controller.

The remote controller cabinet is fastened by seven claws as shown in the figure below.

- 1) Remove a screw on the back of the cabinet.
- 2) Insert a nail between the lower and upper cabinet and open the cabinet. Remove the portion (A) first makes the work easier.

