

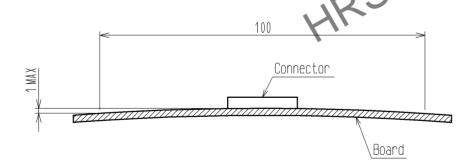
This connector requires delicate and careful handling. Read through the instructions shown below and handle the connector properly. Each values indicating here are for reference and may differ from standard value. ♦ Use of the Actuator INSTRUCTIONS FOR MOUNTING ON THE BOARD!

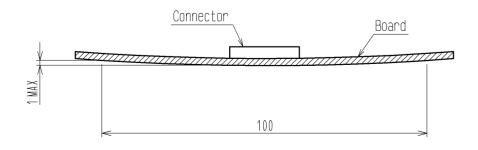
♦ Warp of Board Minimize warp of the board as much as possible. Lead co-planarity including reinforced metal fittings is 0.1 mm or less. Too much warp of the board may result in a soldering failure.

### ♦Flexible board design

Please make sure to put a stiffener on the backside of the flexible board.

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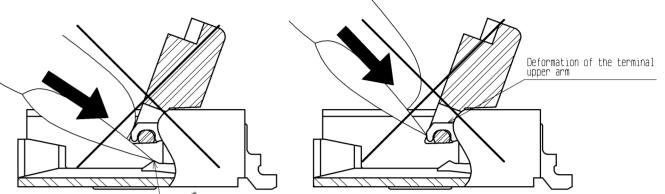


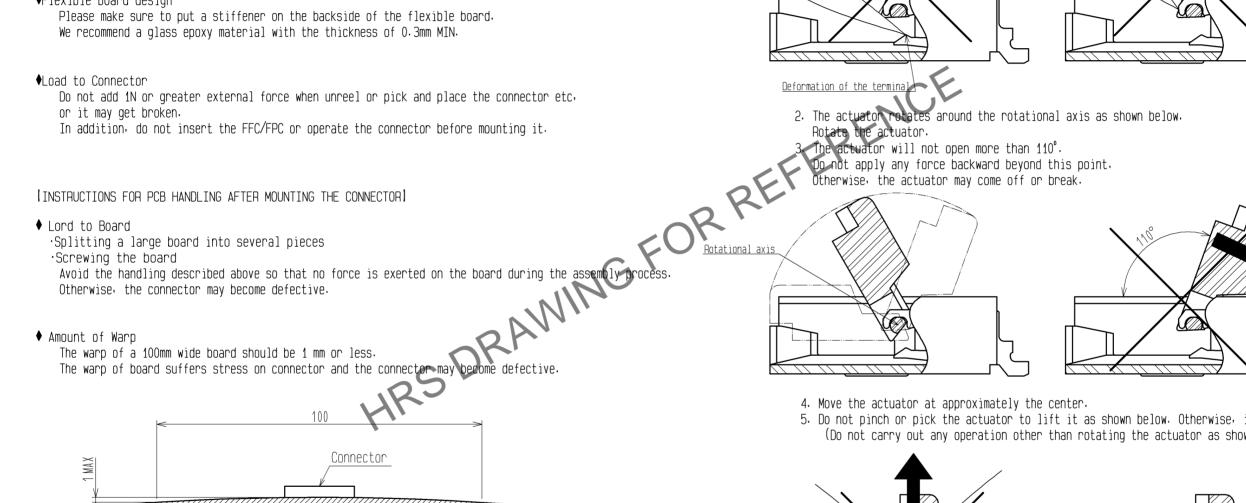


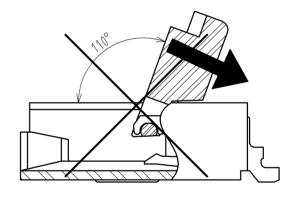
### ITNSTRUCTIONS ON INSERTING FEC/FPC AND CONNECTION!

1. Be very careful not to apply excessive force when releasing the actuator in the initial position.

If you use your nail or finger as shown below, the terminals may be deformed.



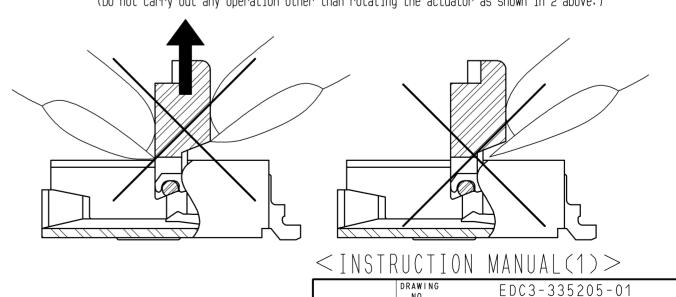




FH52-12S-1SH

CL580-3323-5-00

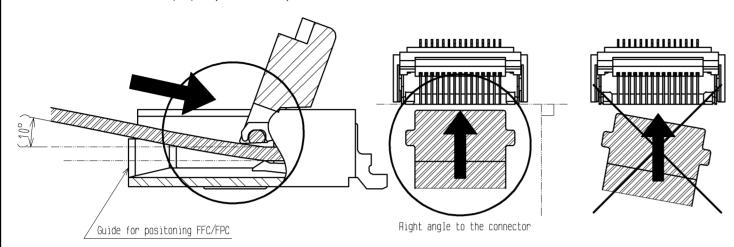
5. Do not pinch or pick the actuator to lift it as shown below. Otherwise, it may break. (Do not carry out any operation other than rotating the actuator as shown in 2 above.)



♦ Direction of Contacts This connector has contacts on the bottom. Thus, insert FFC/FPC with the exposed conductors face down.

♦ Inserting the FFC/FPC

1. Insert the FFC/FPC by about 10 degrees along the surface and at a right angle to the connector. Insert it properly to the very end.



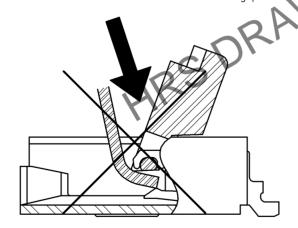
This Tructions on Removing FFC/FPC!

In the stage of the layout in order to avoid

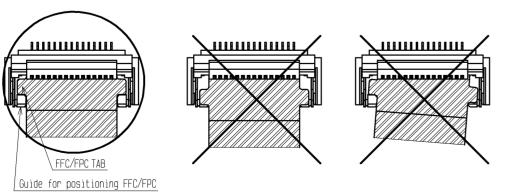
In the stage of the layout in order to avoid

Move the actuator at approximately the resign the proper layout of parts.

\* Make adjustments with the FFC/FPC manufacturer for FFC/FPC bending perfomance and were breakage. 2. Do not insert the FFC/FPC diagonally from above.



3. Do not rotate the actuator when FFC/FPC TAB is on right and left guides for positioning FFC/FPC. Make sure the position of FFC TAB and guides before rotate the actuator.



♦ Checking the Locking Condition

In the locked condition, make sure that the actuator is horizontal on the board surface. Do not apply excessive force to it near the 0° position of the actuator. Otherwise, the terminals may be deformed.

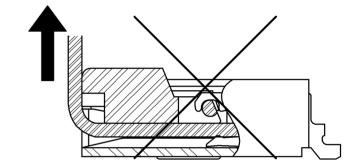
### INSTRUCTIONS ON FFC/FPC LAYOUT AFTER CONNECTION!

♦ Load to FFC/FPC

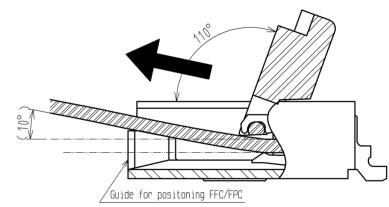
Be very careful not to apply any force to the connector directly after inserting FFC/FPC. Otherwise, the connector may become unlocked or the FFC/FPC may break. In particular, design the FFC/FPC layout with care not to bend it sharply upward in a vertial direction near the insertion opening.

Fix the FFC/FPC when loads are applied to it continuously.





- ♦ Move the actuator at approximately the center.
- ♦ Release the actuator to remove the FFC/FPC. Remove the FFC/FPC by about 10 degrees along the surface.



## **IOTHER INSTRUCTIONS**

♦ Instructions on Manual Soldering

Follow the instructions shown below when soldering the connector manually during repair work, etc.

- 1. Do not perform reflow soldering or manual soldering with the FFC/FPC inserted into the connector.
- 2. Do not heat the connector excessively. Be very careful not to let the soldering iron contact any parts other than connector leads. Otherwise, the connector may be deformed or melt.
- 3. Do not use excessive solder (or flux). If excessive solder (or flux) is used on the terminals, solder or flux may adhere to the contacts or rotating parts of the actuator, resulting in poor contact or a rotation failure of the actuator. Supplying excessive solder to the reinforcing bracket may hinder actuator rotation. resulting in breakage of the connector.

# <INSTRUCTION MANUAL(2)>

| ЖS | DRAWING<br>NO. | EDC3-335205-01  |                           |
|----|----------------|-----------------|---------------------------|
|    | PART<br>NO.    | FH52-12S-1SH    |                           |
|    | CODE<br>NO.    | CL580-3323-5-00 | $\triangle$ $\frac{5}{5}$ |
|    |                | 0               |                           |

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