

♦ [Board Mounting Precautions] ♦ [Operating Method] O Board Warpage As this connector is a small and thin, requires careful handling. Be sure to minimize the board warpage as much as possible. Please check the instructions shown below before use. The Lead co-planarity including reinforced material is 0.1mm or less. Too much board warpage may result in a soldering failures or co-planarity issues. 1. Initial condition. - The actuator is delivered closed state. O Connector Load - Don't operate the connector while it is not mounted on the board. Do not apply a force of 0.5N or more to the connector before mounting it on the board to prevent connector damage. 2. How to unlock the actuator Do not insert the FPC or operate the connector before mounting. Actuator rotates around the center rotation axis, as shown in the Figure below. Operate the actuator and slowly rotate it, releasing the lock. [Fig.2] O Board Stress - Splitting a large board into several pieces. [Caution] \cdot Operate the actuator around the center when unlocked. [Fig.4] - Screwing the borad. \cdot Do not operate the actuator on one side only when unlocked. [Fig.5] Avoid the handling described above so that no force is exerted on the board · Actuator can not be opened wider than 99°. Do not open it wider than that angle. [Fig.3] during the assembly process. This connector adopts a back-flip design, and there is a difference between the FPC insertion Otherwise, the connector may become defective. RS DRAWING FC. direction and the actuator operating direction. Don't try to open from FPC insertion side. [Fig.6] Do not pick and raise the actuator, or hook it. [Fig.7] • Accetable Amount of Board Warpage A 100mm wide board has an acceptable warp range of 0.5mm or less. [Fig.1] Excessive amounts of warping will place stress on the connector [Fig.2] which may result in damage and malfunction. [Fig.1] ΧY Rotational Axis [Fig.4] [Fig.5] Around the center Board Connector OK 100 PART NO. EDC3-633304-95 TF42-**S-0.35SH(895) < INSTRUCTION MANUAL (1) > CODE NO **HS**HIROSE KOREA CO.,LTD. (L ****-***

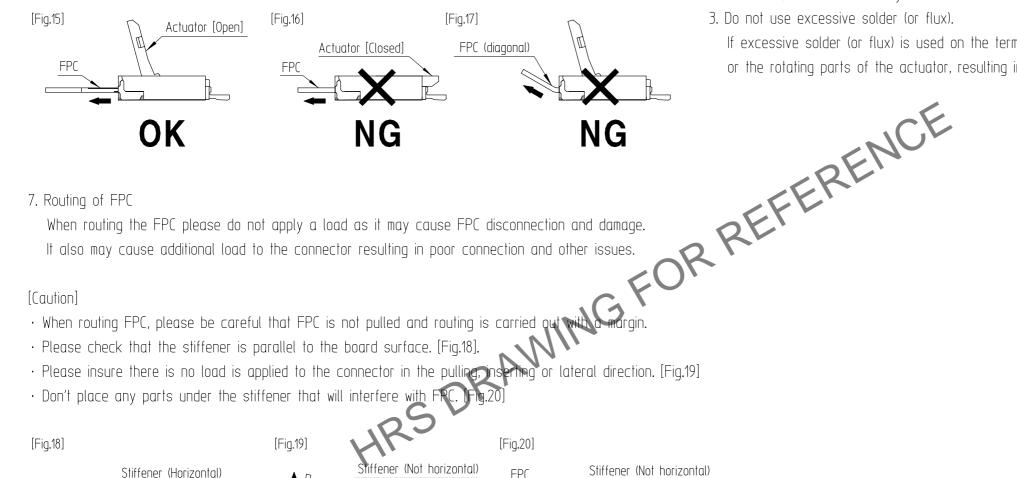
[Caution] [Fig.6] [Fig.7] · Do not operate the actuator on one side only. [Fig.11] · Do not operate the actuator in the direction opposite to the closing direction. [Fig.12] \cdot Do not operate the actuator by pushing in the vertical direction. [Fig.13] · Please check to insure the actuator is placed horizontal to the board surface when locked. [Fig.11] 3. How to insert FPC One side Insert FPC with the conductor surface facing downwards, horizontally to the board surface Around the center Actuator [Closed] MING F 5. (hr until fully inserted. [Fig.8] [Caution] · Be sure to insert FPC to the end. This connector has a ZIF structure and its effective engagement length is 1.92mm [Fig.13] · Do not insert FPC while the actuator is closed. [Fig.9] \cdot Do not insert FPC diagonally above and do not move it in vertical, lateral or diagonal directions while FPC insertion. [Fig.10] [Fig.9] [Fig.8] Actuator (Open) When FPC is completely inserted, visually inspect the inserted status of FPC. · Do not insert FPC insufficiently or from a diagonal direction. [Fig.14] [Fig.14] XNG OK X NG [Fig.10] Pattern breakage FPC (Diagonal) 4. Actuator locking mechanism Tab of FPC is hidden Tab of FPC is visible Diagonal direction. Actuator rotates around the actuator rotation axis. in the insulated case. from the insulated case. After inserting FPC, operate the actuator rotating 99°. PART NO. $\oplus \ominus$ EDC3-633304-95 TF42-**S-0.35SH(895) < INSTRUCTION MANUAL (2) > CODE NO **HS**HIROSE KOREA CO.,LTD. (L ****-***

6. How to remove FPC

After unlock the actuator, remove the FPC in the horizontal direction. [Fig.15]

[Caution]

- · Do not remove the FPC while the actuator is closed. [Fig.16]
- · When pulling out FPC, do not apply load in the upward or lateral direction. [Fig.17]





♦ [Other Instructions]

• Manual soldering

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

- 1. Do not perform reflow soldering or manual soldering with the FPC/FFC inserted into the connector.
- 2. Do not overheat the connector.

Do not allow the soldering iron to contact any part other than the intended connector leads. Otherwise, the connector may be deformed or melted.

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 the rotating parts of the actuator, resulting in poor contact or a rotation failure of the actuator.

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< INSTRUCTION MANUAL (3) >