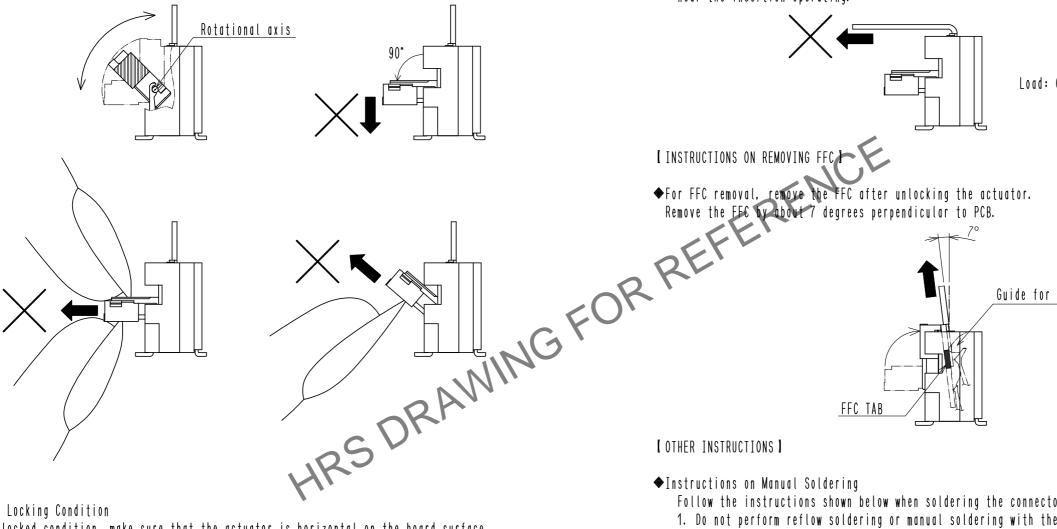


This connector requires delicate and careful handling. Read through the instructions shown below and handle the connector properly. I INSTRUCTIONS ON INSERTING FFC AND CONNECTION 1 Each values indicating here are for reference and may differ from standard value. ◆Actuator position I INSTRUCTIONS FOR MOUNTING ON THE BOARD 1 Actuator position as delivered is ready for FFC insertion. FFC locked position is that the FFC is inserted and the actuator is rotated by 90°. ◆Warp of Board Do not rotate the actuator before FFC is inserted. Minimize warp of the board as much as possible. Lead co-planarity is 0.1 mm or less. ◆Direction of contacts Too much warp of the board may result in a soldering failure. Insert the FFC in a way that the FFC circuit exposed side faces to the housing, and FFC stiffener side to the actuator. ◆Load to Connector Do not add 1N or greater external force when unreel or pick and place the connector etc. or it may get broken. FFC stiffener In addition, do not insert the FFC or operate the connector before mounting it. FFC circuit exposed side Actuator <u>Actuator</u> ◆Reflow temperature profile ∕2\ Actuator Housing Apply reflow temperature profile within the specified conditions. For specific applications, the recommended temperature may vary depending on type/volume/thickness of solder paste and size/thickness of PCB. Connector delivered position (FC insertion ready)

Insti-Please consult with your solder paste and equipment manufacturer for specific recommendations. The temperatures mentioned below refer to the PCB surface temperature near the connector contact leads. - Reflow method : IR reflow - Number of reflow cycles : 2 cycles MAX. Begining of FFC insertion FFC locked 250 200 Insert the FFC at a right angle to the connector and properly to the very end. Temperature(°C) 150 150 ℃ 100 50 25 °C Start 90 to 120 sec. (60 sec.) Time (Seconds) Preheating I INSTRUCTIONS FOR PCB HANDLING AFTER MOUNTING THE CONNECTOR 1 Connector ◆Loard to Board - Splitting a large board into several pieces Board - Screwing the board Avoid the handling described above so that no force is exerted on the board during the assembly process. <INSTRUCTION MANUAL (1)> Connector Otherwise, the connector may become defective. EDC3-322764-00 ◆Amount of Warp HR5 PART NO. The warp of a 100 mm wide board should be 1 mm or less. FH48-40S-0.5SV Board The warp of board suffers stress on connector and the connector may become defective. CL0580-3100-0-00 FORM HC0011-5-8

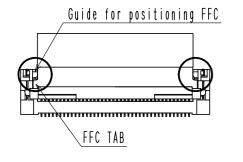
◆Use of the actuator

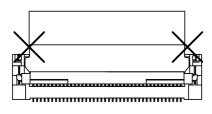
- 1. The actuator rotates around the rotational axis as shown below. Rotate the actuator.
- 2. The actuator will not open moure than 90°. Do not apply any force backward beyond this point. It may cause contact deformation and actuator breakage.
- 3. Do not pinch or pick the actuator to lift it as shown below. Otherwise, it may break. (Do not carry out any operation other than rotating the actuator as shown above.)

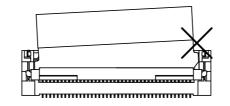


◆Checking the Locking Condition

- 1. In the locked condition, make sure that the actuator is horizontal on the board surface.
- 2. After FFC is locked, make sure the position of TAB and quides.







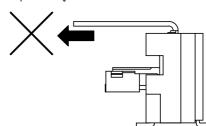
[INSTRUCTION ON FFC LAYOUT CONNECTION]

◆Load to FFC

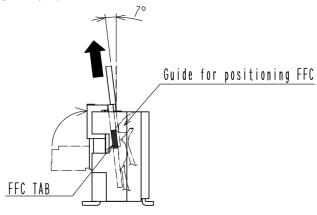
Be very careful not to apply force to the connector directly after inserting FFC.

Otherwise, the connector or the FFC may break.

In particular, design the FFC layout with care not to bend it sharply in a direction of the actuator side near the insertion operating.



Load: 0.05×n N max (n: number of contacts)



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 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.

♠Please consult with our sales representative

if you are using FFC with different configuration from our recommendation.

⚠ ♦ Attachment of foreign particles with the connector contact may lead to conduction failure. In this particular case, the conduction failure may be fixed by re-inserting the FFC.

## <INSTRUCTION MANUAL (2)>

	HS	DRAWING NO.	EDC3-322764-00		
		PART NO.	FH48-40S-0.5SV		
		CODE NO.	CL0580-3100-0-00	2	5
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FORM HC0011-5-8