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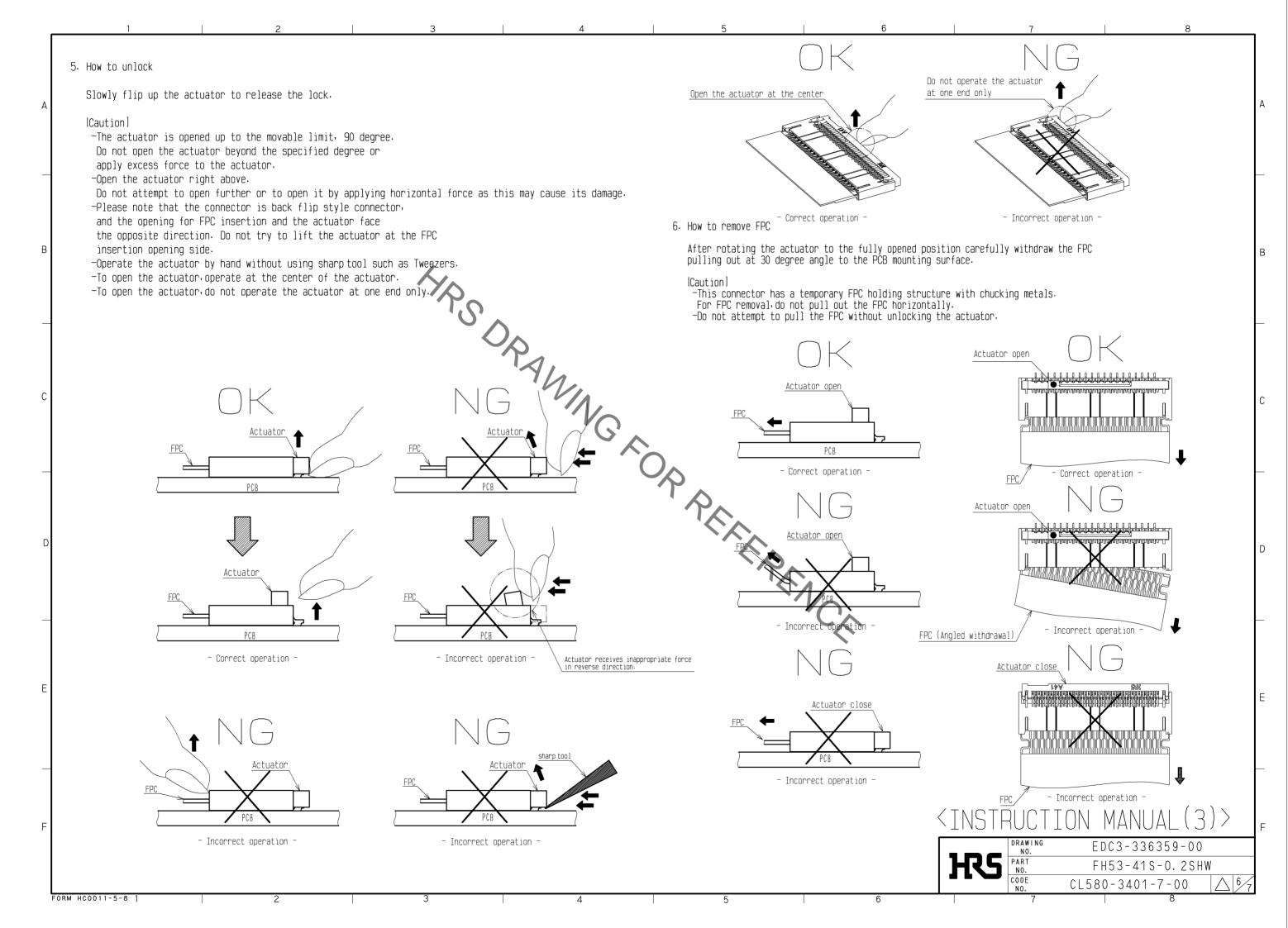
FORM HC0011-5-8 1

This connector features small, thin and back flip design, requiring delicate and careful handling. Actuator close To prevent connector/FPC breakege and contact failure (meting failure, FPC pattern breakage, etc), Actuator close read through the instructions shown below and handle the connector properly. Each values indicating here are for reference and may differ from standard value. Operation and Precautions! 1. Initial condition - Incorrect operation -Actuator does not have to be operated before inserting FPC. - Incorrect operation as the connector is delivered with the actuator opened. [Caution] Actuator open Actuator open -Do not close the actuator before inserting FPC. FPC (Angled insertion) Closing the actuator without FPC could make the contact gap smaller, which could increase the FPC insertion force. Chuc.
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[Caution]
-Do no+ -Do not insert FPC or operate actuator before mounting. - Incorrect operation -3. FPC insertion check FPC (Angled insertion), Actuator close Actuator open NO FPC Chucking metals guide the FPC tabs to the correct position. Make sure that the FPC tabs are located in proper position as shown in the figure below after FPC insertion. not insert the FPC at an angle and/or stop it before insertion is completed. - Open when deliverd - Incorrect operation -2. How to insert FPC This connector has contacts on the top. Insert the FPC with the exposed conductors face up. [Caution] -Insert the FPC with the actuator opened. -Do not insert the FPC with the conductor surface face down. -Insert the FPC into the connector opening horizontally to the PCB plane. Insert it properly to the very end. - Correct assembled -Incorrect assembled -- Incorrect assembled --Do not twist the FPC to up and down, right and left or an angle. sufficiently inserted) (Angle insertion) Cross section of ch<u>ucking metal</u> Cross section of chucking metal Actuator open <u>Actuator open</u> Conductor surface √FPC TAB \ Chucking metal Chucking metal FPC TAB \FPC TAB \Chucking metal Hook of the chucking metal fits in FPC cutout. PCB Chucking metal run on the FPC Chucking metal run on the FPC. - Correct operation -Align both sides of FPC horizotally to the sides of the connector opening and insert straightforward. DRAWING NO. - Correct operation -EDC3-336359-00 HS. FH53-41S-0. 2SHW

CL580-3401-7-00

4. How to lock Apply load to rotate the actuator by 90 degree after inserting the FPC. [Caution] -The actuator rotates around the rotational axis as shown below. -Do not rotate the actuator to the counter direction. Do not operate the actuator Close the actuator at the center Do not pinch or pick the actuator to lift. at one end only -Operate the actuator by hand without using sharp tool such as Tweezers. -To close the actuator, operate at the center of the actuator. -To close the actuator, do not operate the actuator at one end only. В -Do not apply excess force to the housing during the operation. - Incorrect operation [Actuator movable range] (Side view) С Actuator D PCB - Correct operation -Ε - Incorrect operation HRS DRAWING NO.
PART NO.
CODE NO. EDC3-336359-00 FH53-41S-0.2SHW CL580-3401-7-00 FORM HC0011-5-8 1



FORM HC0011-5-8

[Precautions for design] [Instructions for mounting on the PCB] ♦Warn of PCR 1. During FPC wiring ensure that stress is not applied directly to the connector. Minimize warp of the PCB as much as possible. Do not bend the FPC excessively near the connector during use ,or it may cause Lead co-planarity including reinforced chucking metals is 0.1 mm or less. contact failure or FPC breakage. Too much warp of the PCB may result in a soldering failure. Stabilizing the FPC is recommended. ♦Flexible board design 2. Keep a sufficient FPC insertion space in the stage of the layout in order to avoid Please make sure to put a stiffener on the backside of the flexible board. We recommend a glass epoxy material with the thickness of 0.3mm MIN. incorrect FPC insertion. Appropriate FPC length and component layout are recommended for assembly ease. Too short FPC length makes assembly difficult. ♦Load to Connector Do not add 0.5N or greater external force when unreel or pick and place the connector etc. 3. Follow the recommended PCB mounting pattern, stencil opening design and the FPC design. or it may get brokeň. In addition, do not insert the FPC or operate the connector before mounting. 4. Make adjustments with the FPC manufacturer for FPC bending performance and wire breakage. ♦Reflow temperature profile Apply reflow temperature profile within the specified conditions. In individual applications, the actual temperature may vary, 5. Keep spaces for the actuator movement and its operation for PCB design and component layout. depending on solder paste type volume/thickness and PCB size/thickness. Consult your solder paste and equipment manufacturer for specific recommendations. IFPC routing after connection! INSTRUCTIONS FOR PCB HANDLING AFTER MOUNTING THE CONNECTOR! Depending on a FPC rounding, a load is applied to the connector, and a contact failure may occur. ♦Load to PCB To prevent a failure, take the following notes into a consideration during mechanism design. Splitting a large PCB into several pieces
Screwing the PCB Avoid the handling described above so that no force is exerted on the PCB during the assembly process. [Caution] Otherwise, the connector may become defective. -Avoid applying forces to FPC in vertical or horizontal derections. -Avoid applying forces to FPC in vertical or normalization delections.

In addition avoid pulling up and down on the FPC.

-When fixing FPC after FPC cabling avoid pulling FPC and route the wire FPC with slack. ♦Amount of Warp The warp of a 100mm wide PCB should be 0.5 mm or less. The warp of PCB suffers stress on connector and the connector may become defective. In this regard, the stiffener is parallel to the PCB. -Do not mount other components touching to the FPC underneath the FPC stiffener. 100 5 MAX Connector 0 Connector Other instructions ♦Instructions on manual soldering Follow the instructions shown below when soldering the connector manually during repair work, etc. Stiffener Stiffener 1. Do not perform manual soldering with the 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 supply excessive solder (or flux). If excessive solder (or flux) is supplied 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 chucking metals may hinder actuator rotation. resulting in breakage of the connector. DRAWING EDC3-336359-00 FH53-41S-0. 2SHW Component part CL580-3401-7-00



OOO «ЛайфЭлектроникс" "LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 P/C 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

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