

	PART NUMBER	CODE NUMBER	NUMBER OF CONTACTS	DIMENSION OF CONNECTOR, PCB MOUNTING PATTERN, STENCIL PATTERN, FPC						DIMENSION OF DRAWING FOR PACKING						
				Α	В	С	D	Е	F	G	J	K	L	М	Q	R
	FH64MA-5S-0.25SHW	CL580-4643-0-00	5	3.2	2	1	0.5	2.73	2.7	1.68	16	7.5	4.6	1.86	17.4	21.4
	FH64MA-7S-0.25SHW	CL580-4610-0-00	7	3.7	2.5	1.5	1	3.23	3.2	2.18	16	7.5	5.1	2.36	17.4	21.4
	FH64MA-9S-0.25SHW	-	9	4.2	3	2	1.5	3.73	3.7	2.68	16	7.5	5.6	2.86	17.4	21.4
	FH64MA-11S-0.25SHW	CL580-4612-0-00	11	4.7	3.5	2.5	2	4.23	4.2	3.18	16	7.5	6.1	3.36	17.4	21.4
	FH64MA-13S-0.25SHW	-	13	5.2	4	3	2.5	4.73	4.7	3.68	16	7.5	6.6	3.86	17.4	21.4
	FH64MA-15S-0.25SHW	CL580-4608-0-00	15	5.7	4.5	3.5	3	5.23	5.2	4.18	16	7.5	7.1	4.36	17.4	21.4
	FH64MA-17S-0.25SHW	_	17	6.2	5	4	3.5	5.73	5.7	4.68	16	7.5	7.6	4.86	17.4	21.4
	FH64MA-19S-0.25SHW	CL580-4616-0-00	19	6.7	5.5	4.5	4	6.23	6.2	5.18	16	7.5	8.1	5.36	17.4	21.4
	FH64MA-21S-0.25SHW	_	21	7.2	6	5	4.5	6.73	6.7	5.68	24	11.5	8.6	5.86	25.4	29.4
	FH64MA-23S-0.25SHW	_	23	7.7	6.5	5.5	5	7.23	7.2	6.18	24	11.5	9.1	6.36	25.4	29.4
	FH64MA-25S-0.25SHW	CL580-4642-0-00	25	8.2	7	6	5.5	7.73	7.7	6.68	24	11.5	9.6	6.86	25.4	29.4
	FH64MA-31S-0.25SHW	-	31	9.7	8.5	7.5	7	9.23	9.2	8.18	24	11.5	11.1	8.36	25.4	29.4
	FH64MA-35S-0.25SHW	-	35	10.7	9.5	8.5	8	10.23	10.2	9.18	24	11.5	12.1	9.36	25.4	29.4
8	FH64MA-37S-0.25SHW	_	37	11.2	10	9	8.5	10.73	10.7	9.68	24	11.5	12.6	9.86	25.4	29.4
	FH64MA-41S-0.25SHW	- ,2,	41	12.2	11	10	9.5	11.73	11.7	10.68	24	11.5	13.6	10.86	25.4	29.4

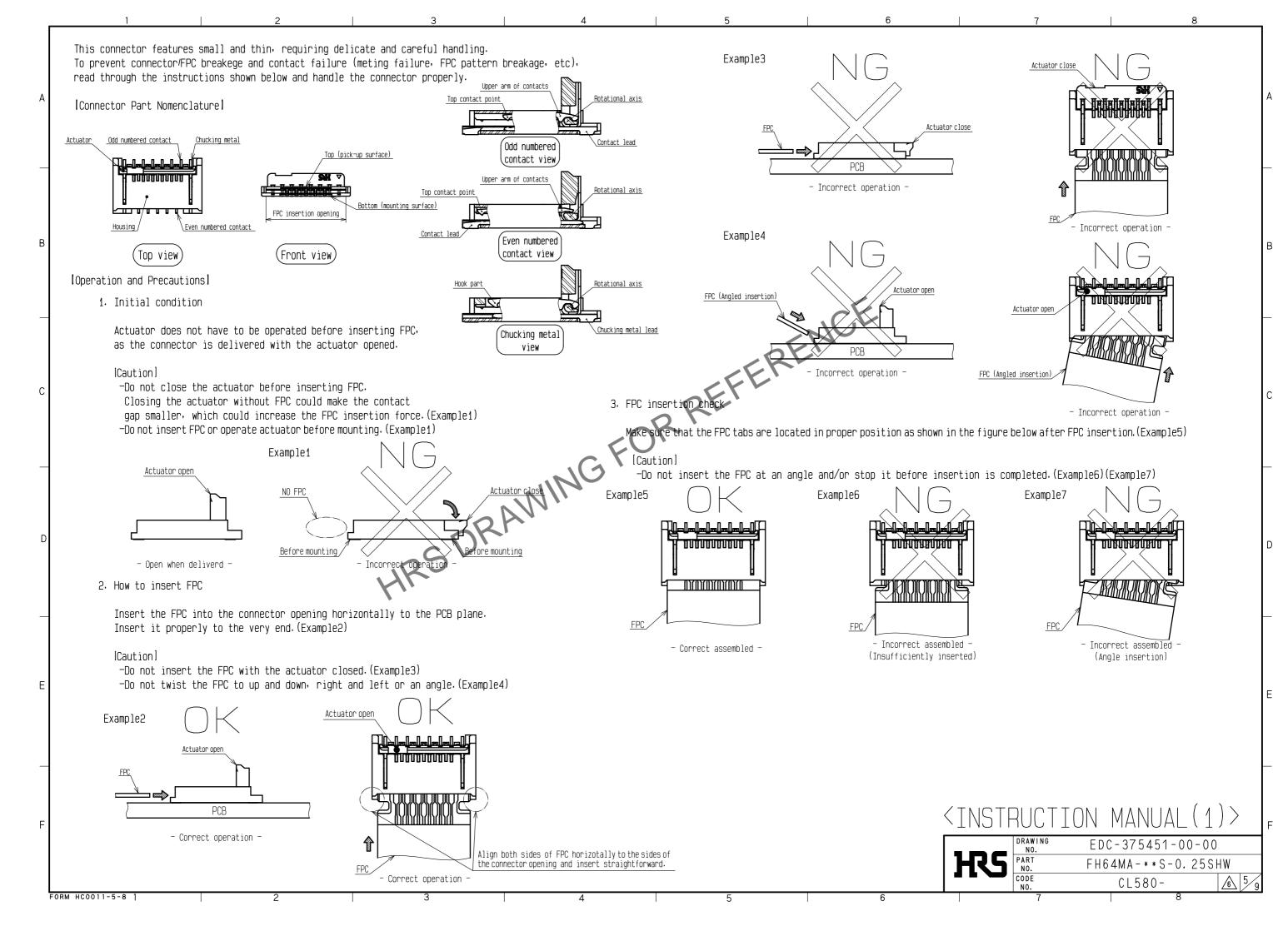
* CONTACT POSITIONS WITHOUT CODE NUMBERS ARE CURRENTLY UNDER PLANNING.

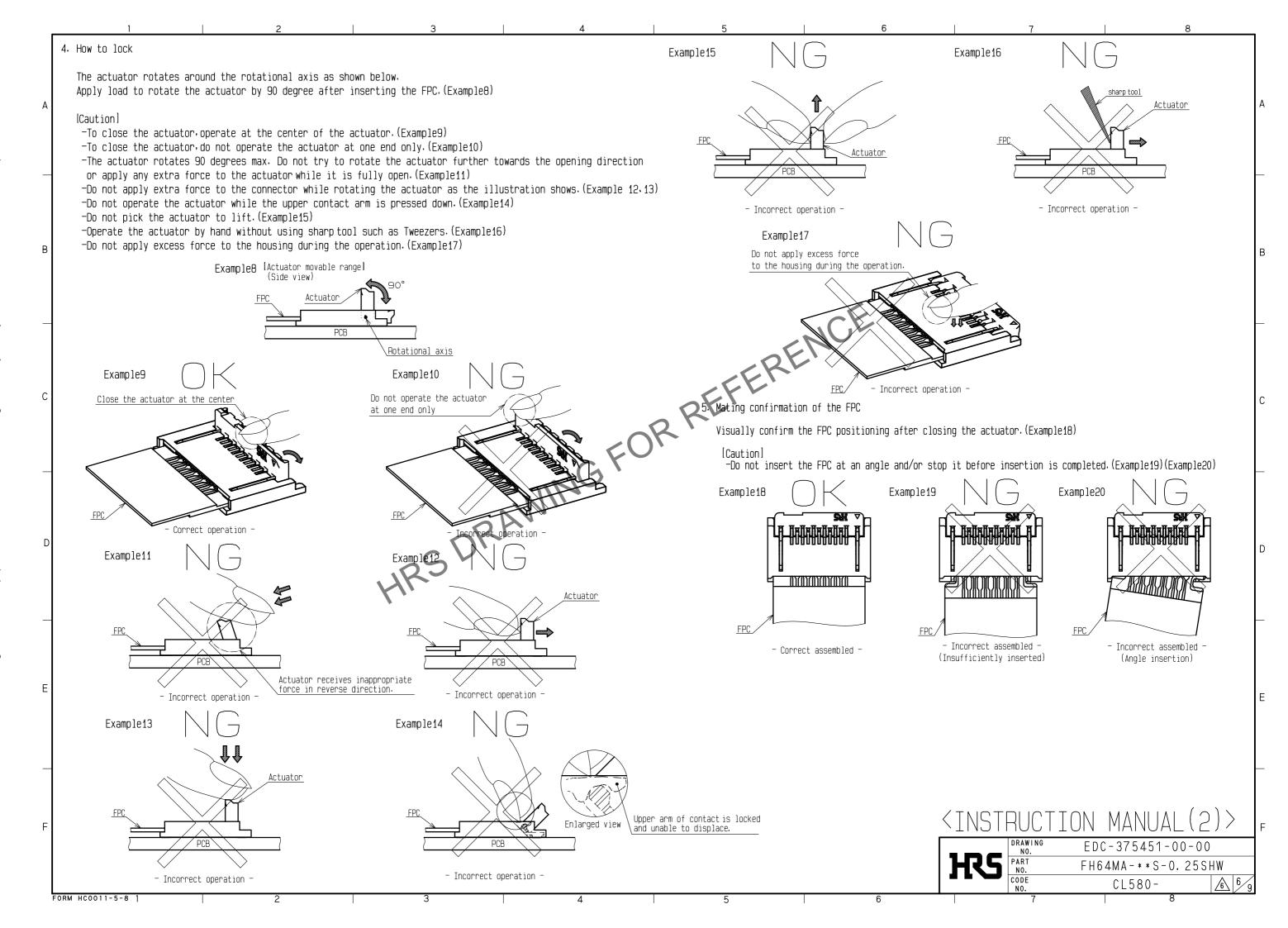
PLEASE CONTACT HIROSE FOR DETAILED INFORMATION ABOUT PRODUCT VARIATION.

<DIMENSION TABLE>

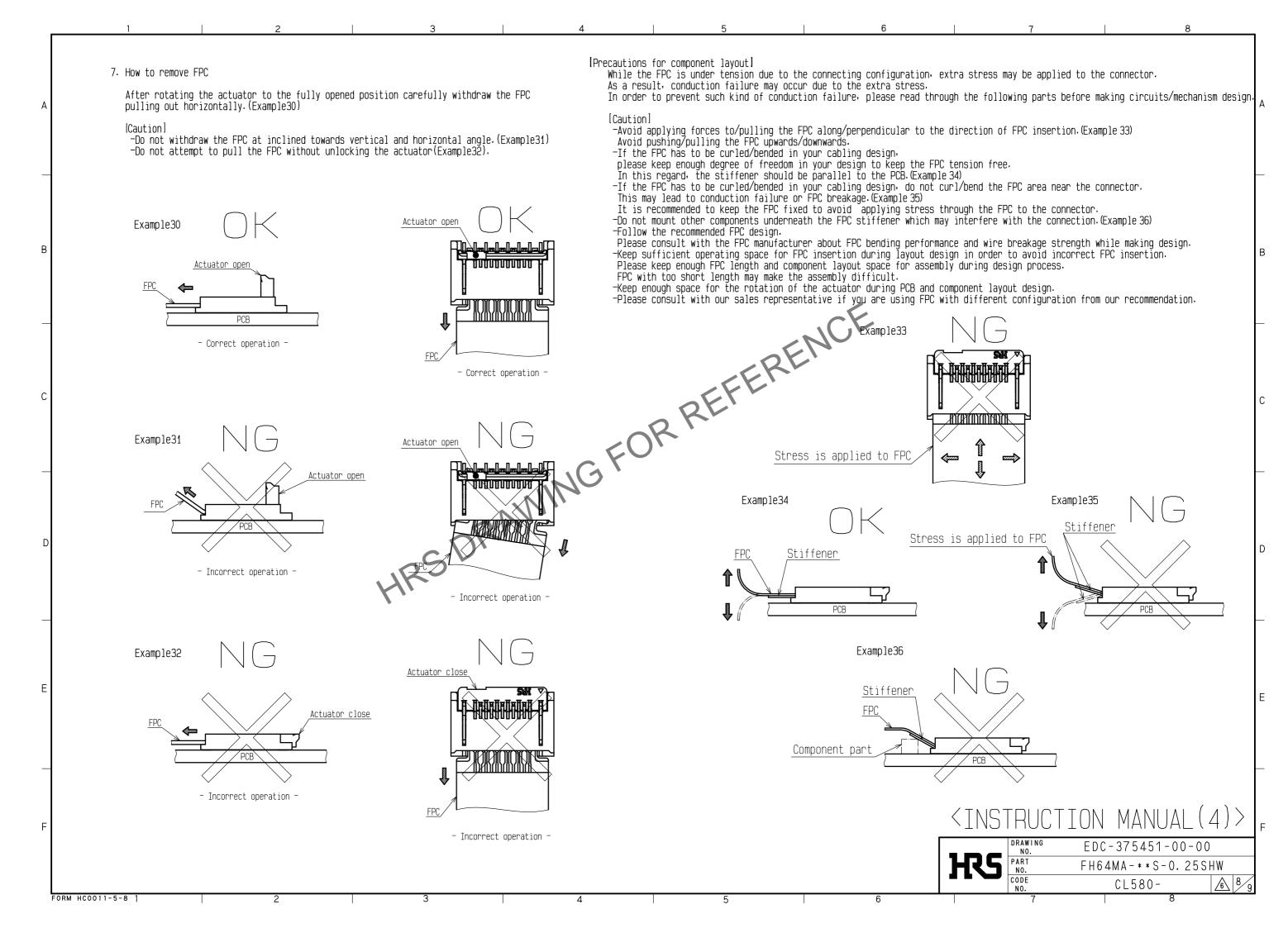
HRS	DRAWING EDC-375451-00-00					
	PART NO.	FH64MA-**S-0.25S	ΗW			
	CODE NO.	CL580-	6 4			
		0				

M HC0011-5-8 1 2 3 4 5





6. How to unlock Slowly flip up the actuator to release the lock. (Example21) [Caution] -To open the actuator operate at the center of the actuator (Example22) -To open the actuator do not operate the actuator at one end only. (Example23) Example25 -The actuator rotates 90 degrees max. Do not try to rotate the actuator further towards the opening direction or apply any extra force to the actuator while it is fully open. (Example24) Actuator receives inappropriate force in reverse direction. -Open the actuator right above. Do not attempt to open further or to open it by applying horizontal force as this may cause its damage. (Example25) - Incorrect operation -Do not pick the actuator to lift. (Example26) -Operate the actuator by hand without using sharp tool such as Tweezers. (Example27) -Do not apply excess force to the housing during the operation (Example28) Example 26 -Please note that the connector is back flip style connector. and the opening for FPC insertion and the actuator face the opposite direction. Do not try to lift the actuator at the FPC insertion opening side. (Example29) Example21 Actuator is pushed into connector - Incorrect operation -Actuator Actuator Example27 Example23 Example22 Open the actuator at the center - Incorrect operation - Incorrect operation -Example28 Example29 Actuator - Incorrect operation -- Correct operation -Example24 Do not apply excess force to the housing during the operation. - Incorrect operation -- Incorrect operation -EDC-375451-00-00 FH64MA-**S-0.25SHW Actuator receives inappropriate force in reverse direction. CL580- Incorrect operation FORM HC0011-5-8



Instructions for mounting on the PCBI Follow the instructions shown below when mounting on the PCB. [Caution] -Refer to recommended layouts on page 1 for PCB and stencil pattern. -Using either narrower land pattern or wider stencil pattern than recommendation may end up with excessive amount of solder/flux climbing on contact. Please inspect the size of solder fillet and flux climbing height of the mounted connector while using different land/stencil pattern from our recommendation. -Clearance between the mounting surface of the connector contact lead and the bottom of the housing is very small. Solder resist/silk screening applied underneath the connector may interfere with the connector. This may lead to soldering defect/insufficient fillet formation. Please verify your solder resist/silk screening design carefully before implementing the design--Please try to minimize the warpage of the PCB. Soldering failure could still occur due to the PCB warpage even if the coplanarity of the connecter is under 0.1mm. —If the connector is mounting on FPC, please make sure to put a stiffener on the backside of the FPC. Recommended stiffner: Glass epoxy material with thickness of 0.3 mm MIN. -Do not apply 0.5 N or greater external force on the connector when unreeling or handling the connector before mounting. Excessive mechanical stress may damage the connector before mounting. -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. 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. MAX250°C 245 3 220°C emperature 200 150 150°C 100 20 to 40 sec. 50 Peak temperature

120±5 sec.

Preheating time

60 to 90 sec.

Soldering time

Time (sec.)

25°C

Start

0

FORM HC0011-5-8 1

| Instructions for PCB handling after mounting the connector |

Follow the instructions shown below when mounting on the PCB.

[Caution]

- ·Splitting a large PCB into several pieces

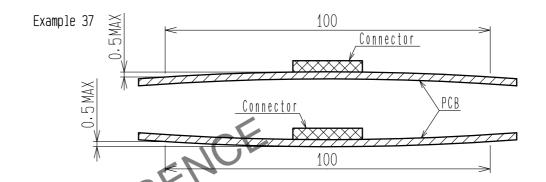
·Installing mounting screw on PCB

During the assembly processes described above, care shall be taken so as not to give any stresses of deflection or twisting to the PCB.

Stresses applied on PCB may damage the connector as well

-The warpage of a 100 mm wide PCB should remain within 0.5 mm (Example 37)

The warpage of PCB may apply excessive stress on the connector and damage the connector.



Instructions on manual soldering!

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

Do not perform manual soldering with the FPC inserted into the connector.

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.

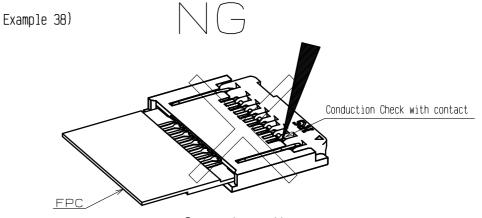
Do not supply excessive solder (or flux).

If excessive solder (or flux) is supplied on the contact lead, solder or flux may adhere to the contact point or rotating parts of the actuator, resulting in conduction failure or a rotation failure of the actuator. Supplying excessive solder to the chucking metals may hinder actuator rotation. resulting in breakage of the connector.

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-Attachment of foreign particles with the connector contact may lead to conduction failure. (Example 38) In this particular case, the conduction failure may be fixed by re-inserting the FPC.

—Please perform conduction check with caution Conductivity probe may damage the connector contacts.



- Incorrect operation -

<INSTRUCTION MANUAL(5)>

3		DRAWING NO.								
	HZ5	PART NO.	FH64MA-**S-0.25SH	١W						
		CODE NO.	CL580-	<u>6</u>	9/9					