

CABLINE®-CA IIF

Part No.20856-0**T-01

Instruction Manual

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Rev.	ECN	Date	Prepared by	Checked by	Approved by

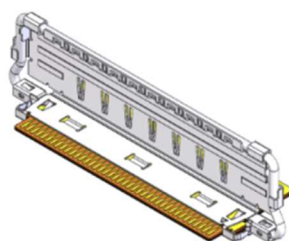
This manual provides the mating & un-mating methods and cautions to handle CABLINE-CA IIF connector properly.

Connector Name, Part number

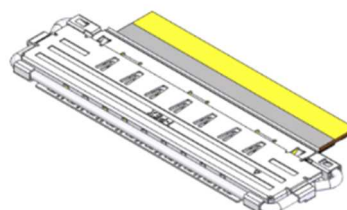
◆Plug connector

Product Name : CABLINE-CA IIF SHELL ASS'Y

Part No. : 20856-0**T-01



Opened shell ass'y with FPC



Closed shell ass'y with FPC

Fig. 1

◆Receptacle connector

Product Name : CABLINE-CA II RECEPTACLE

Part No. : 20682-0**E-0※
 1: With Boss
 2 : Without Boss

“* *” part shows the number of the connector position.

“※” part shows the variation. Please refer to a drawing for the details.

Names of each part of the connector.

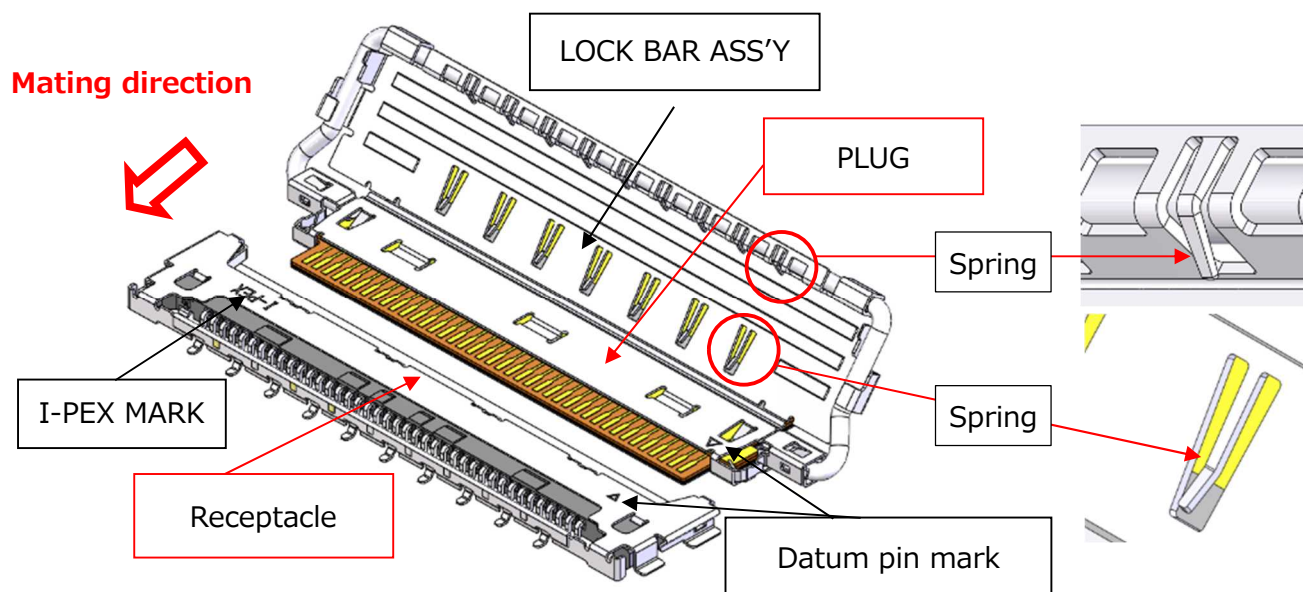


Fig. 2

【Connector Insertion Method】

- ① As shown in Fig.3, please set so that the datum pin mark of Plug connector and Receptacle connector are matched.

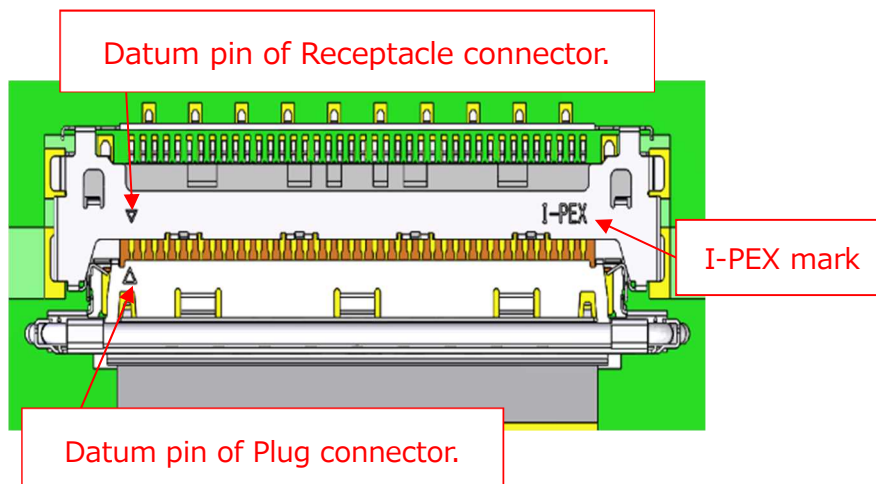


Fig. 3

- ② The horizontal insertion angle should be within 5° (Fig. 4), and the vertical insertion angle should be within 8° (Fig. 5). Temporarily insert without applying an excessive load in the insertion direction until the PLUG is straight with respect to the connector.

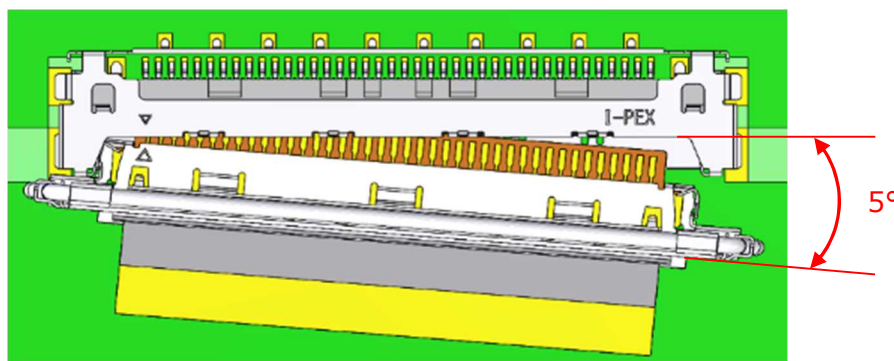


Fig. 4

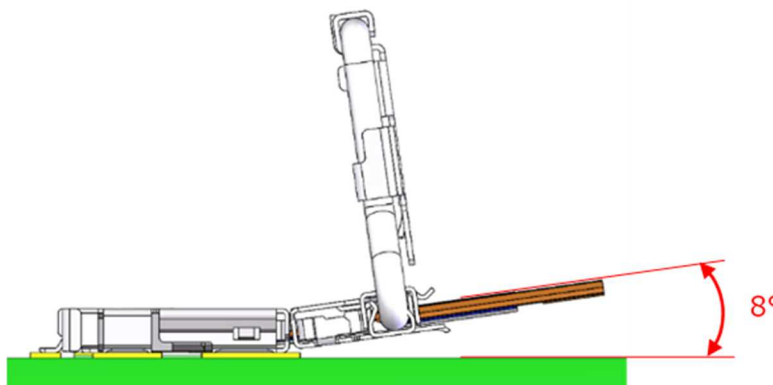


Fig. 5

③As shown in Fig.6, push both ends of Plug connector horizontally and confirm there is no gap.

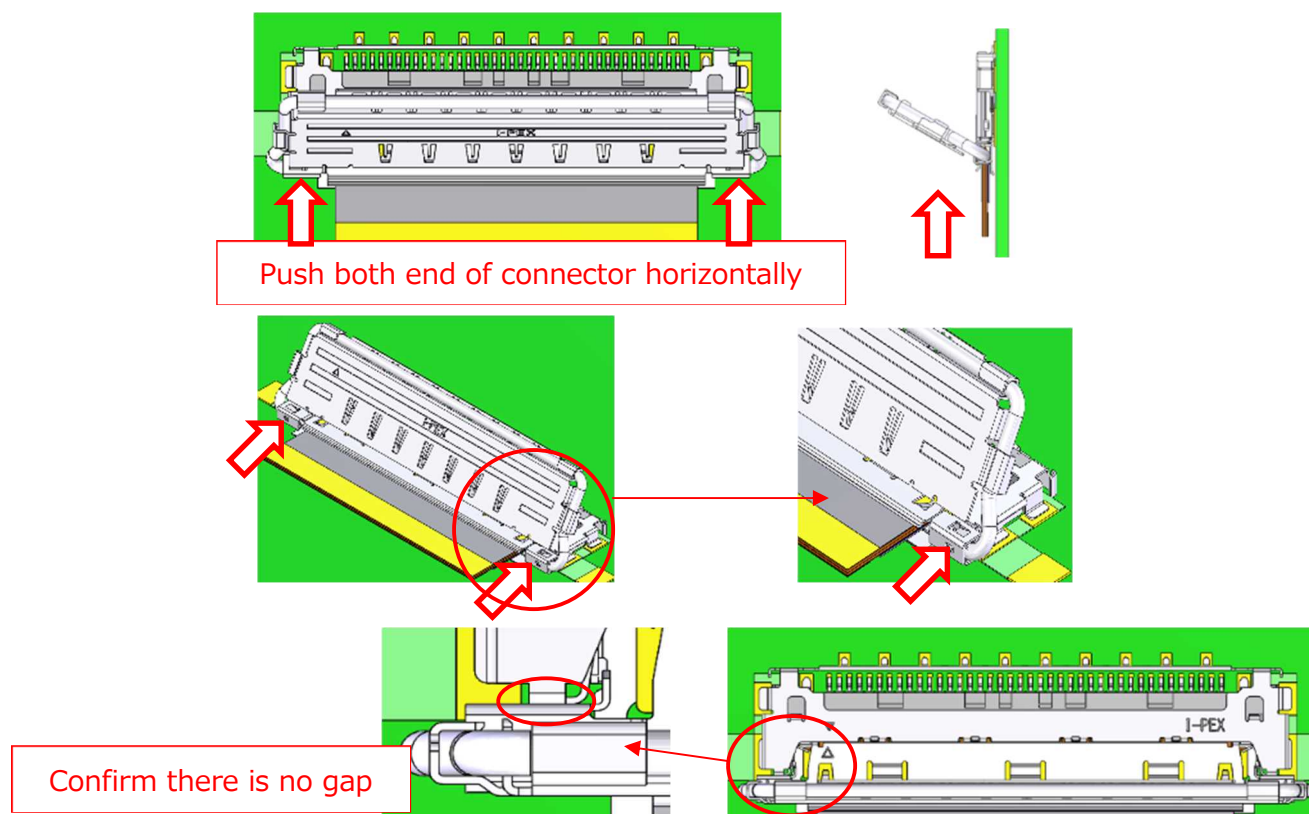


Fig. 6

<Caution 1>

In inserting, please push both ends of the plug connector horizontally.

When you push one end by one end, there is possibility to cause a gap as shown in Fig.7.

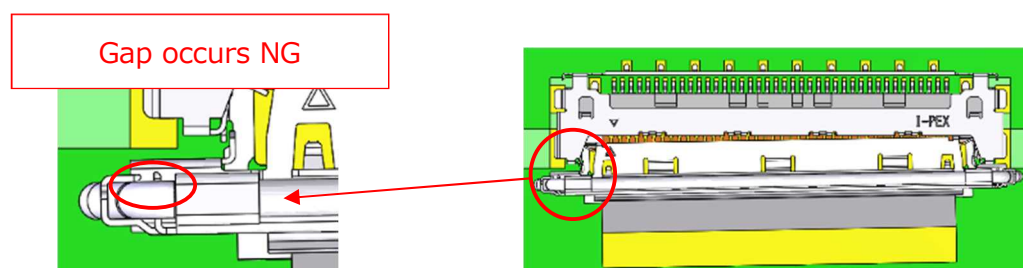


Fig. 7

Do not close a cover if slant mating was confirmed. Interference of a cover and a receptacle shell may deform the connector.

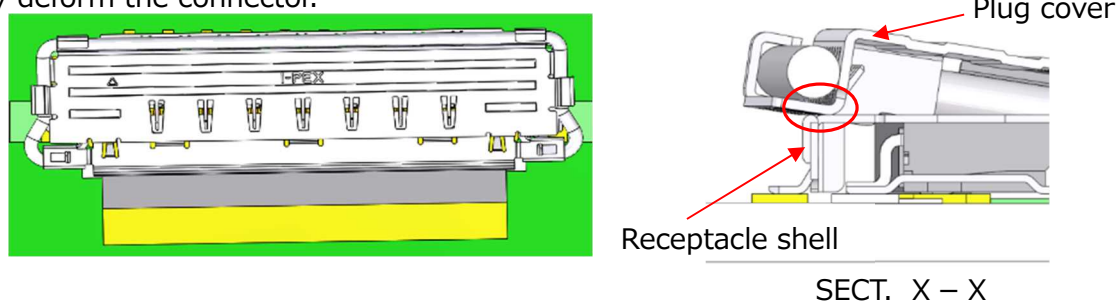


Fig. 8

<Caution 2>

Please insert the connector along the insertion guide of the Receptacle connector.
As long as inserting along the guide, deformation of the connector doesn't occur.

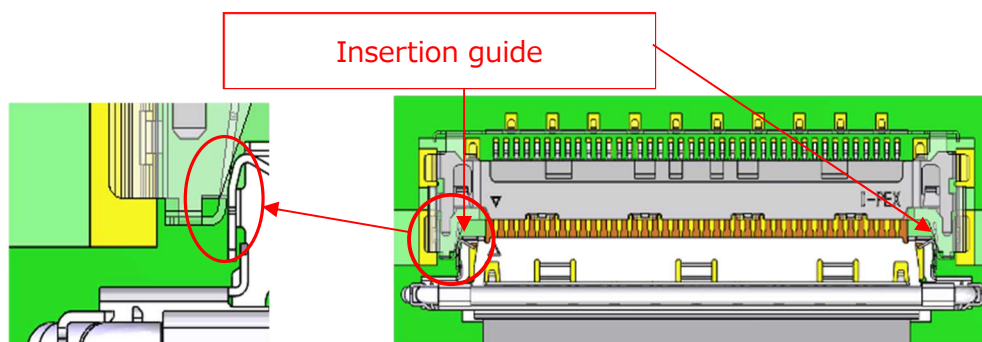


Fig. 9

<Caution 3>

Please keep insert slant 5 ° or less in horizontal direction.
By inserting with the slant more than 5°, deformation of the connector will occur.

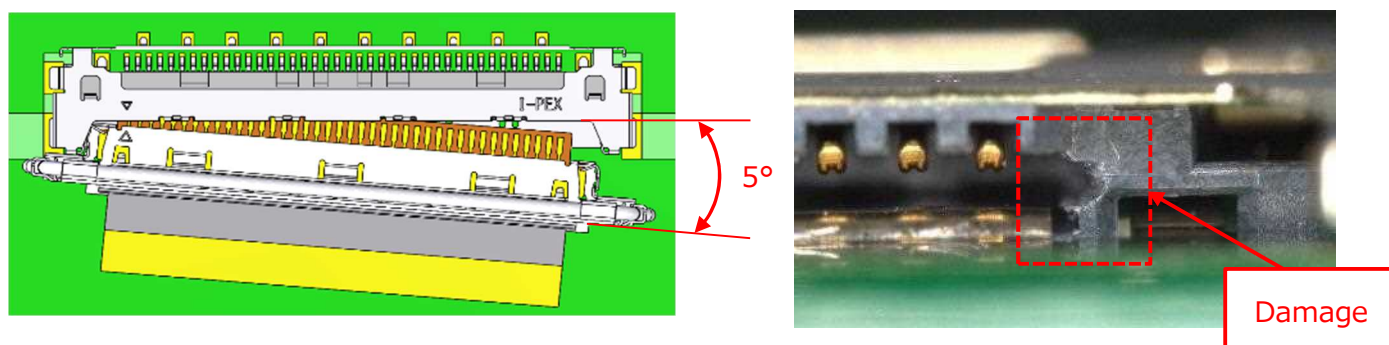


Fig. 10

<Caution 4>

If cover is opened up more than its stopped position, cover edge may damage the FPC.

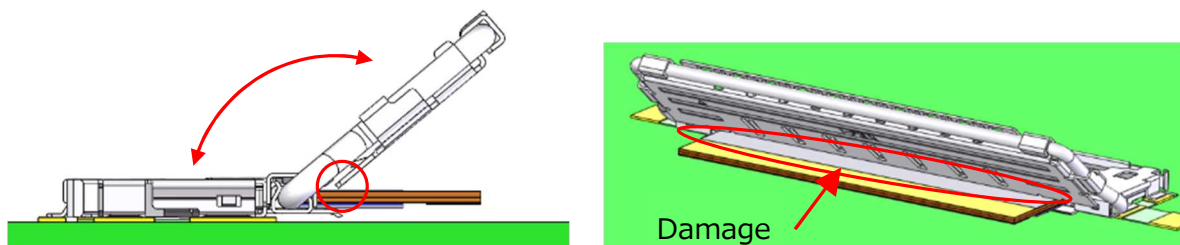


Fig. 11

<Caution 5>

At starting the insertion, please keep the slant 8° or less in vertical direction.
By inserting with the slant more than 8° , deformation of the connector will occur.

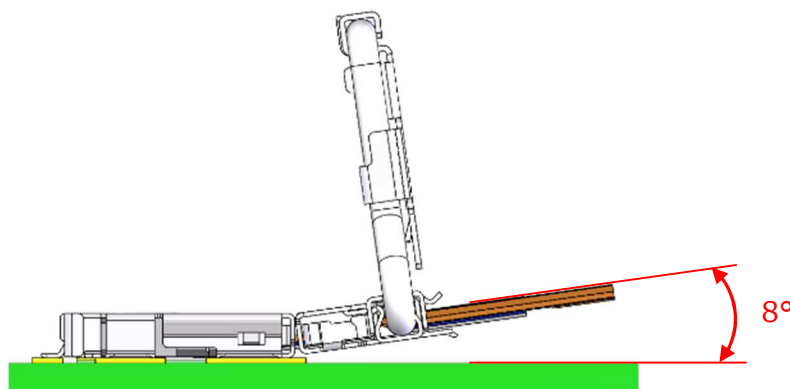


Fig. 12

<Caution 6>

The lock bar and cover shall not be pushed or pulled for insertion to avoid deformation or any connector damage.

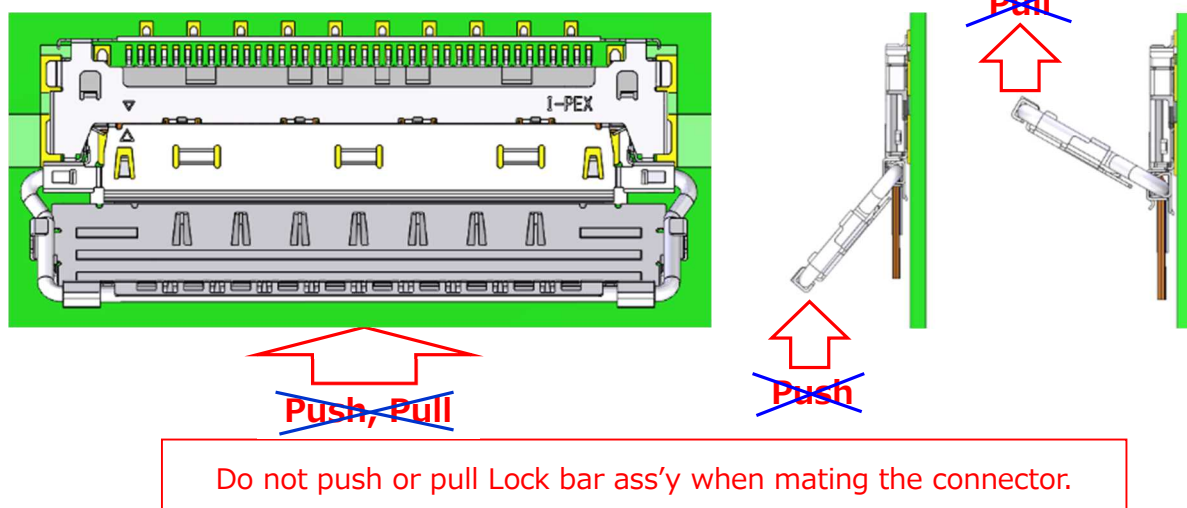


Fig. 13

<Caution 7>

Please do not apply force toward the PCB side to the plug connector in insertion.
PCB will be damaged like below and it may cause the disconnection of the pattern or the short.

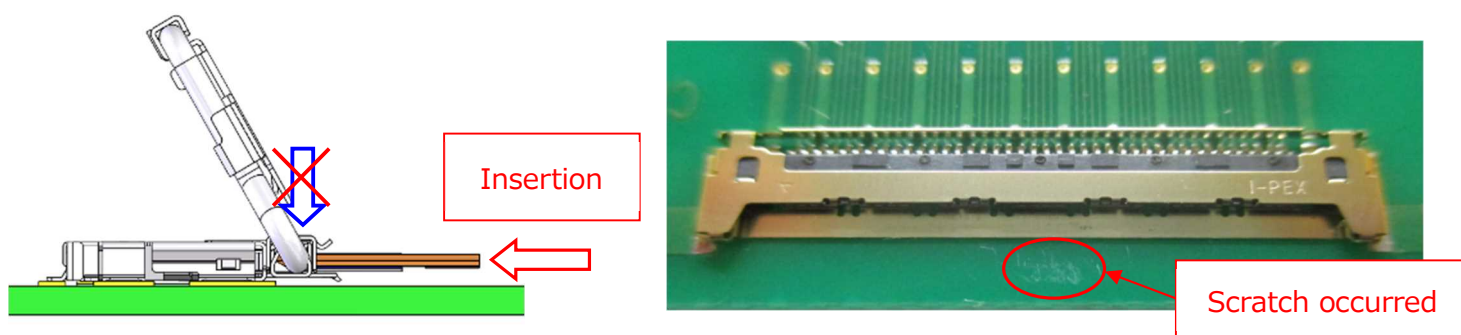


Fig. 14

- ④ Push two circled area of a cover down toward the PCB direction at a same time to lock receptacle shell and lock bar.

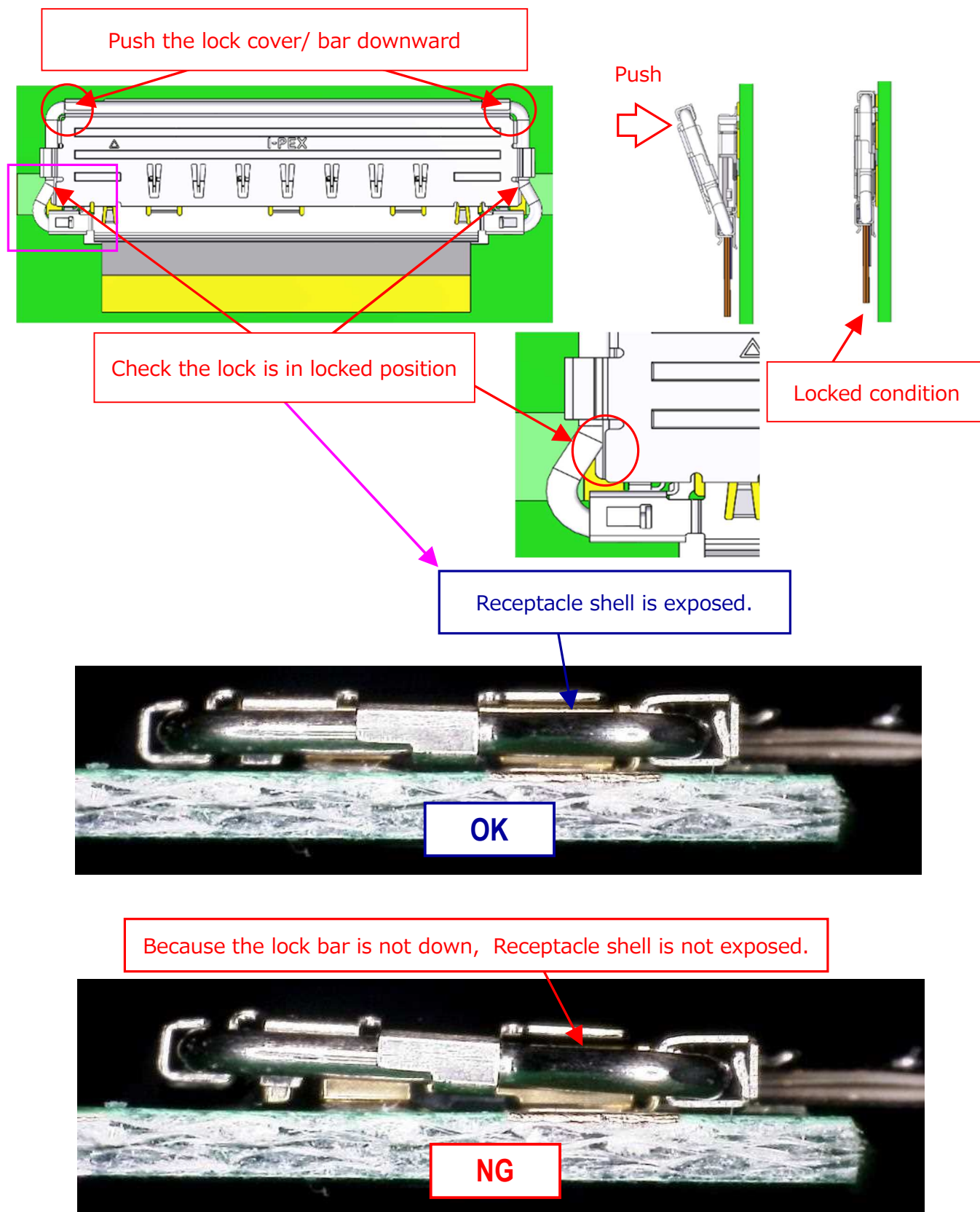


Fig. 15

【Connector Withdrawal Method】

- ① Lift the circled positions of the pull bar upward to release the lock. Rotate the cover/bar as shown on the bottom-right figure.

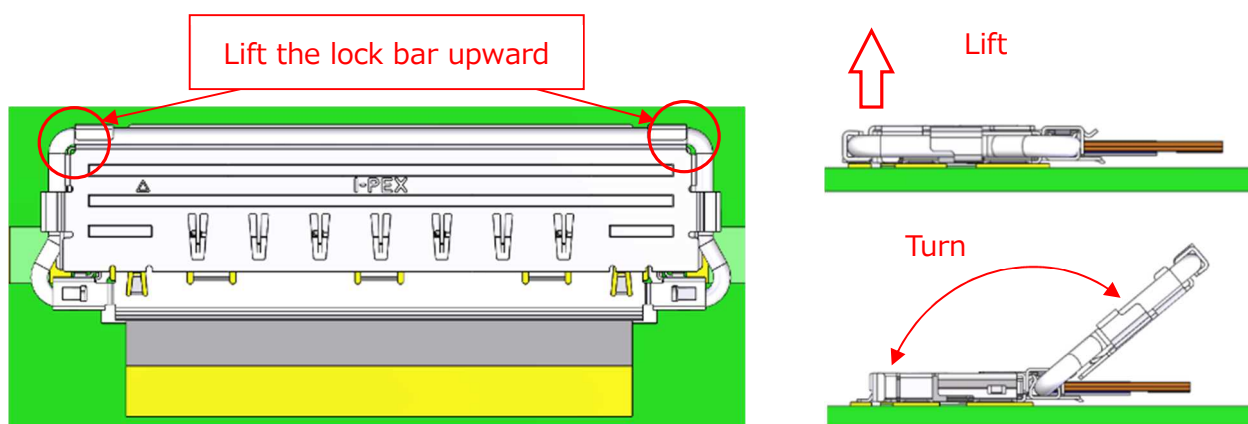


Fig. 16

<Caution 8>

When releasing the lock, do not lift by the center of the lock bar ass'y.
There are possibility of lock bar ass'y and connector deformation.

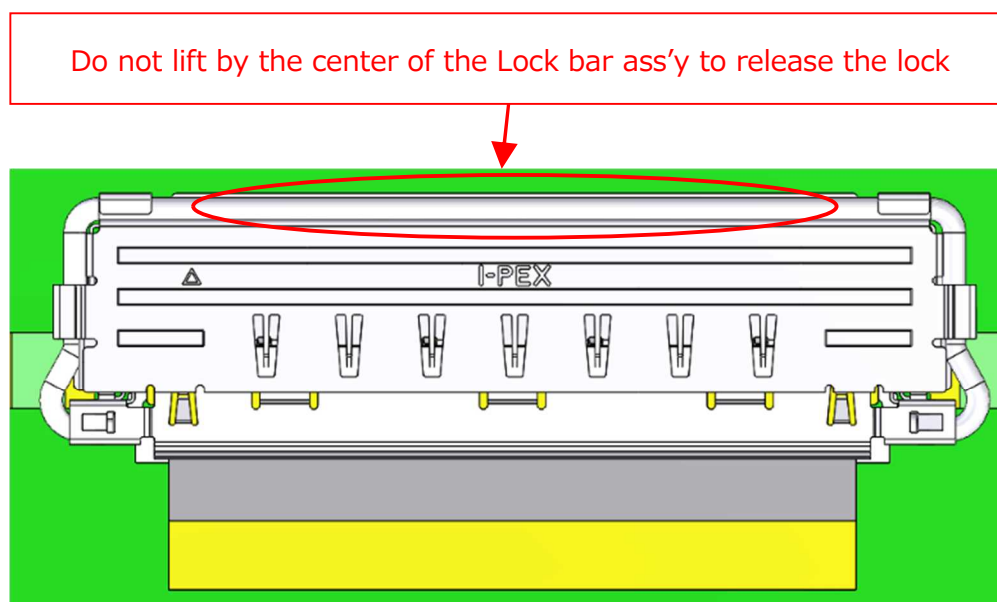


Fig. 17

②As shown in Fig.18, hold both ends of the Plug connector and withdrawal it parallel.

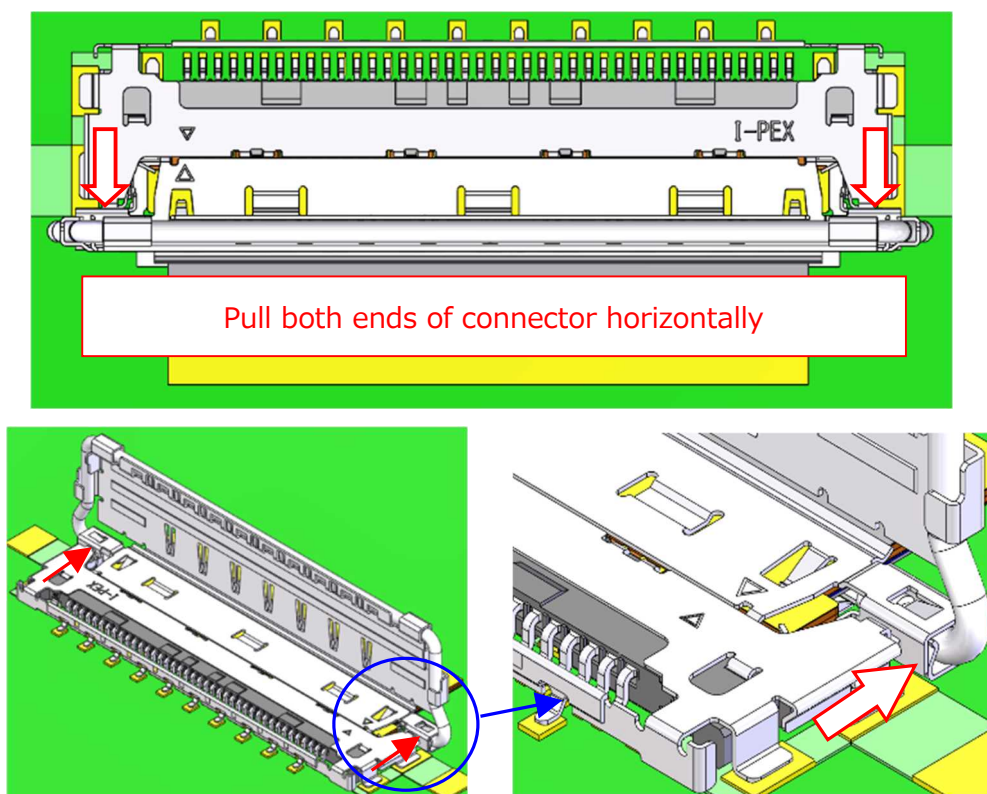


Fig. 18

<Caution 9>

Please keep withdrawal slant 5° or less in horizontal direction.

By withdrawing with the slant more than 5° , deformation of the connector will occur.

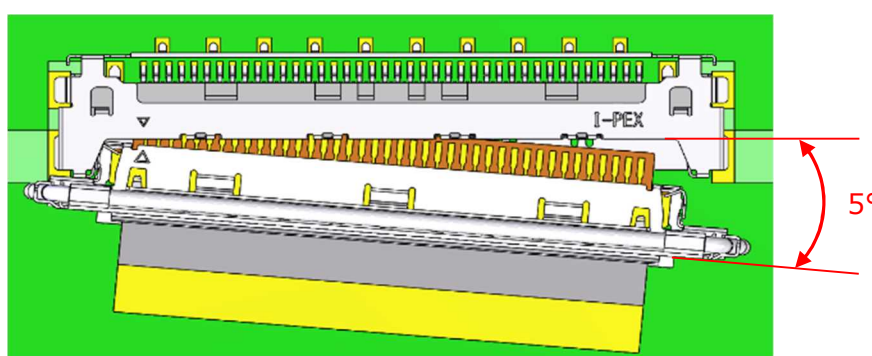


Fig. 19

<Caution 10>

Do not withdraw the connector by pulling or pushing the Lock bar ass'y.
There are possibilities to cause the Lock bar ass'y and connector deformation.

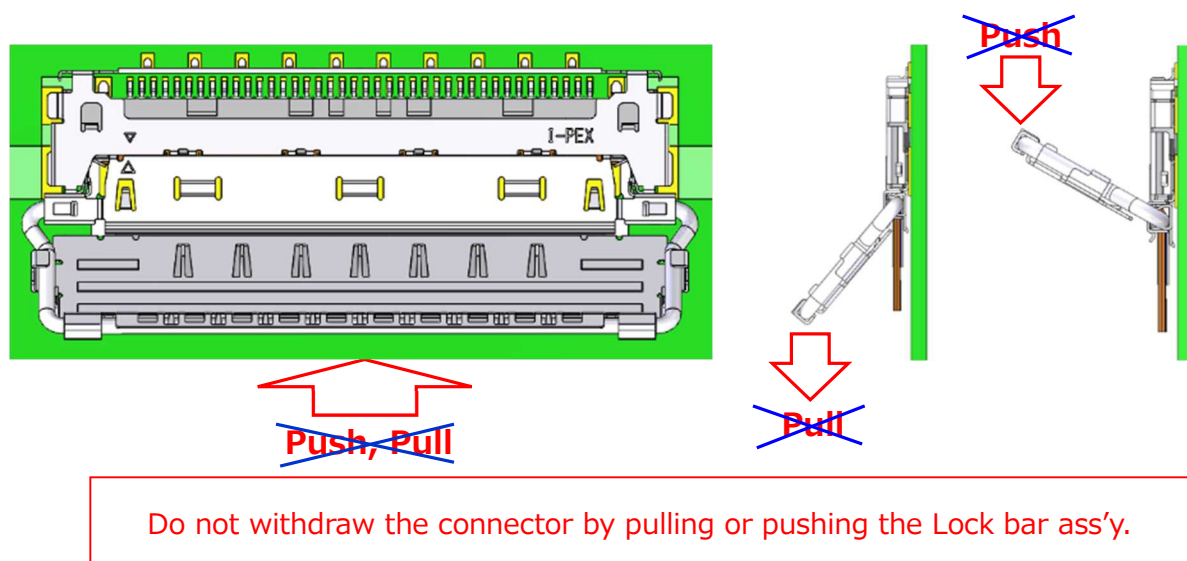


Fig. 20

<Caution 11>

Please do not apply force toward the PCB side to the plug connector in withdrawal.
PCB will be damaged like below and it may cause the disconnection of the pattern or the short.

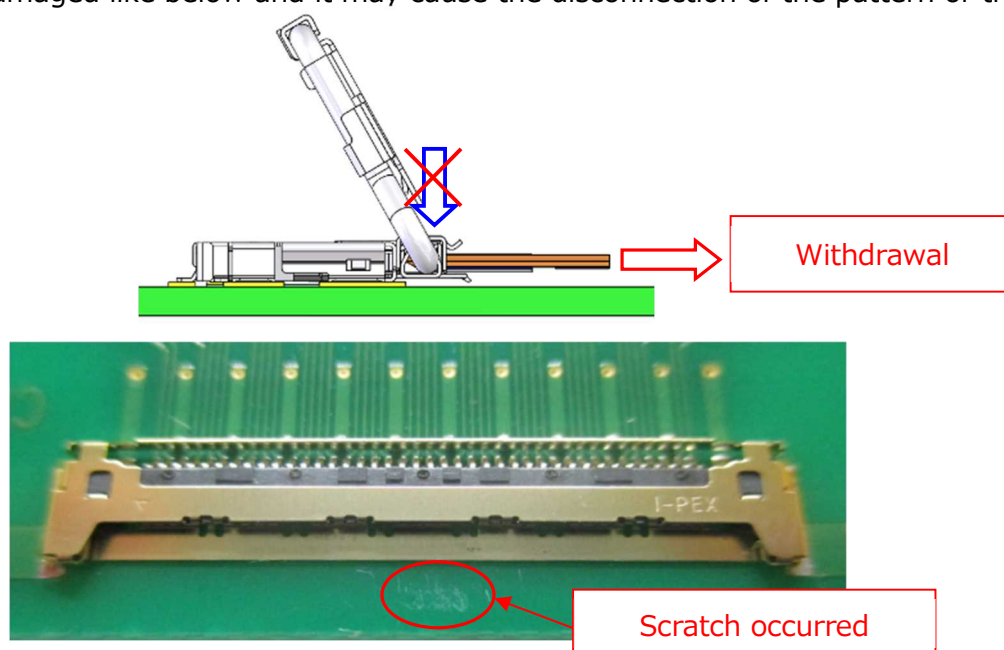


Fig. 21

【Cautions in handling the connector】

- ① Please do not pull the FPC or the lock bar ass'y of the mated plug connector to the vertical direction. It may cause the receptacle connector's deformation.

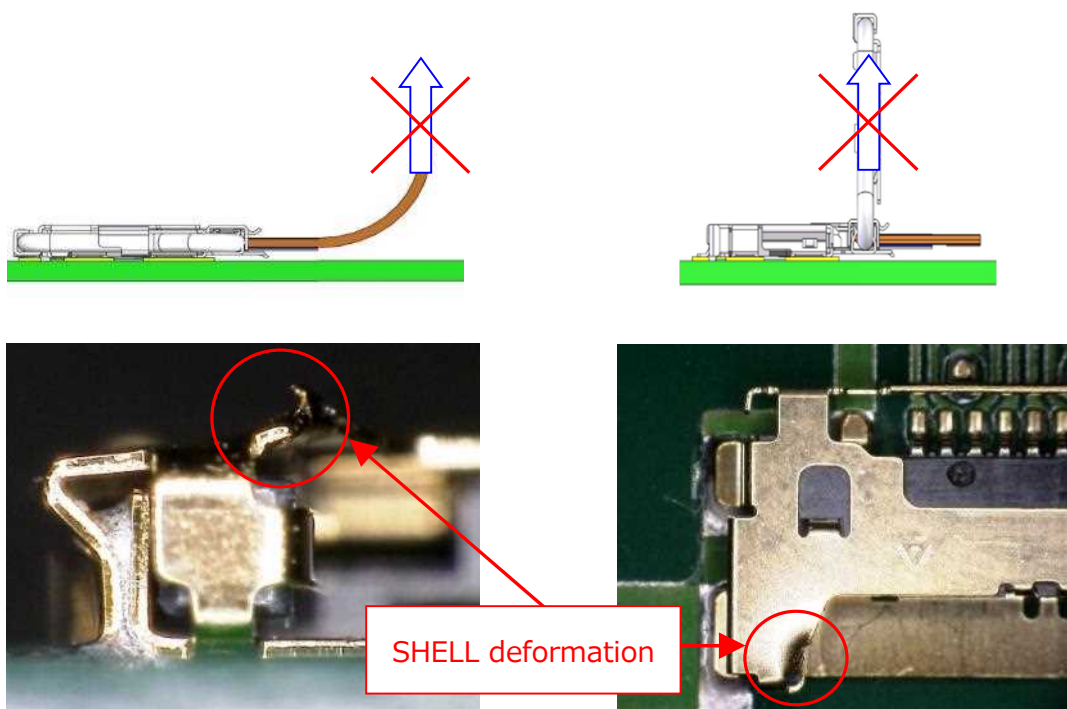


Fig. 22

- ② In handling the FPC, please pay attention not to apply excessive force to the connector or the FPC. It may cause the connector or the FPC breakage.
- ③ Continuous stress to the connector should not remain after assembly. It may cause the mating defect or the connector breakage.