

CABLINE®-VS II

Part No. PLUG : 20846-0**T-0# / 21070-0**T-01

RECEPTACLE : 20849-0**E-0# / 21073-0**E-01

Instruction Manual

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3	S21353	July 27, 2021	M.Nakamura	T.Masunaga	H.Ikari
2	S19219	March 28, 2019	M.Nakamura	T.Kurachi	H.Ikari
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Rev.	ECN	Date	Prepared by	Checked by	Approved by

This manual provides the insertion & withdrawal methods and cautions to handle CABLINE-VS II connector properly.

【Connector Name, Part number】

◆ The cable side connector

Product Name : CABLINE-VS II Plug Cable Assembly

Part No. : 20846-0**T-0# / 21070-0**T-01

◆ The PCB side connector

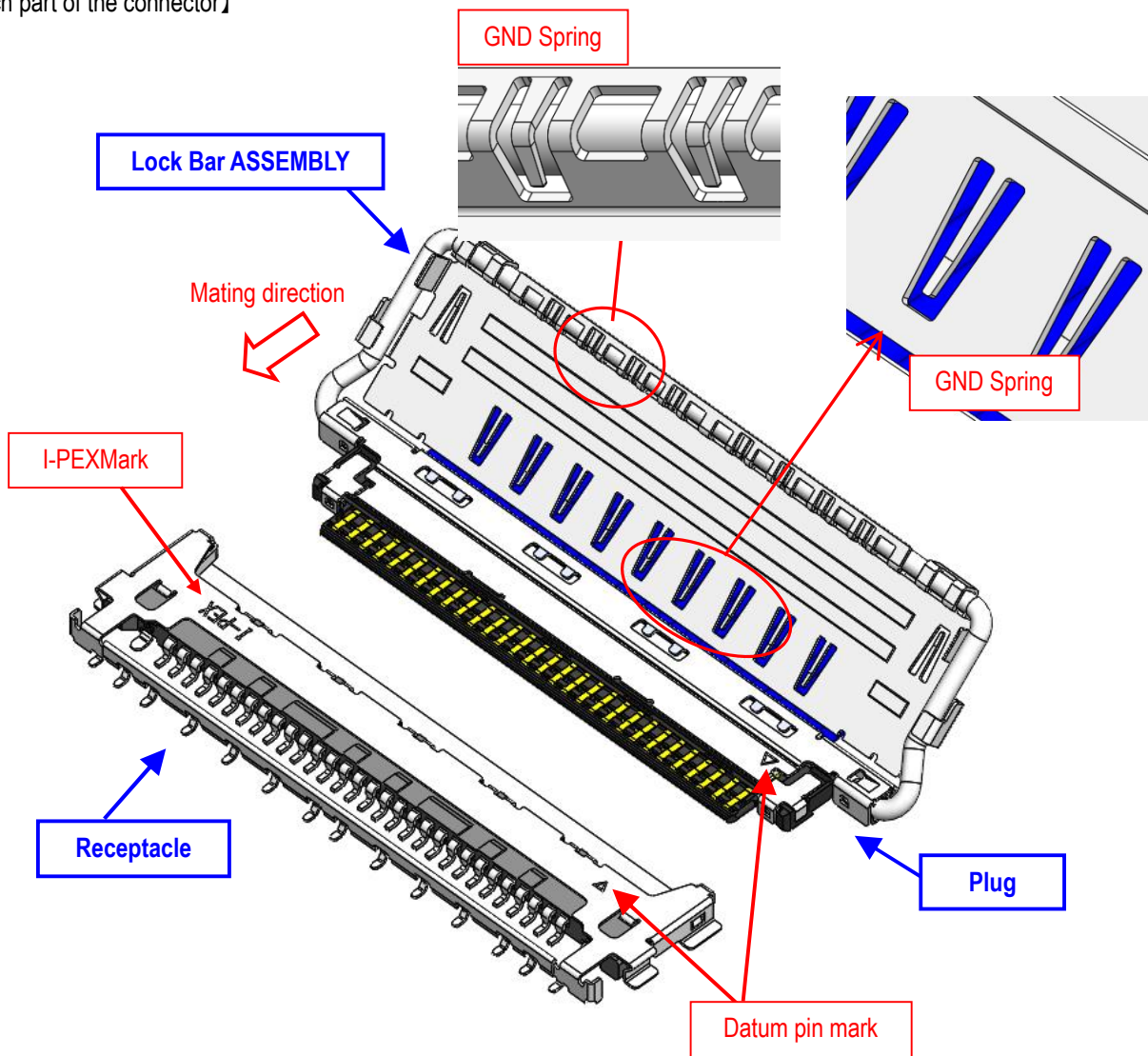
Product Name : CABLINE-VS II Receptacle

Part No. : 20849-0**E-0# / 21073-0**E-01

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

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

【Names of each part of the connector】



【Connector Insertion Method】

- ① Open the lock bar assembly. (Fig.1)

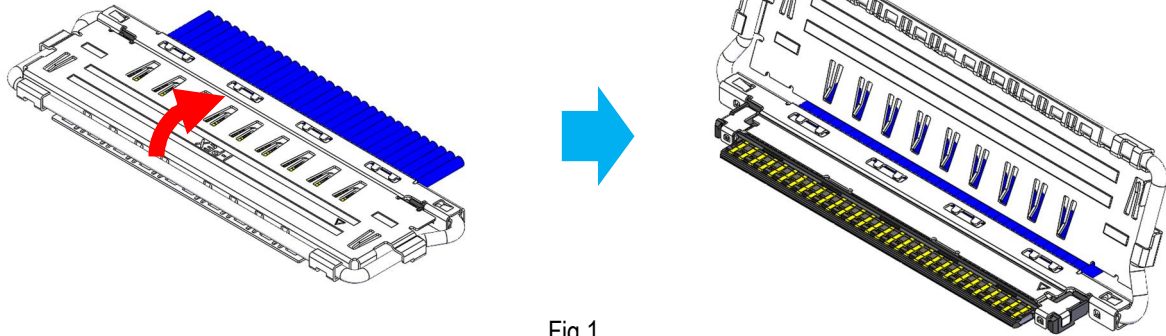


Fig.1

<Caution 1>

If cover is opened more than its stopped position, cover edge may damage the cable. (Fig.2)

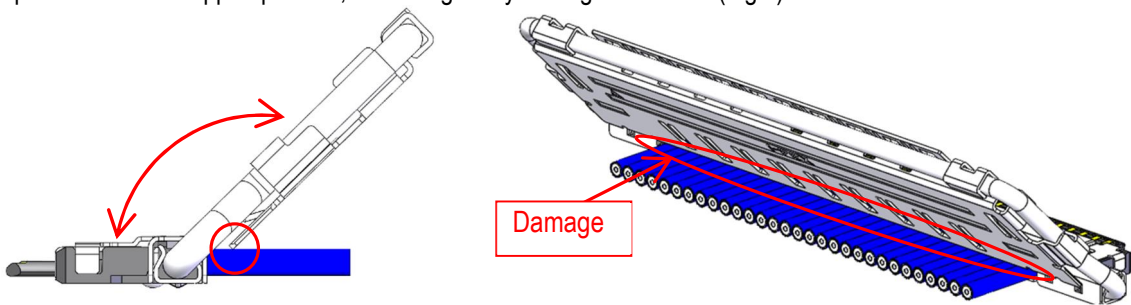


Fig.2

- ② As shown in Fig.3, please set so that the datum pin mark of Plug connector and Receptacle connector are matched.

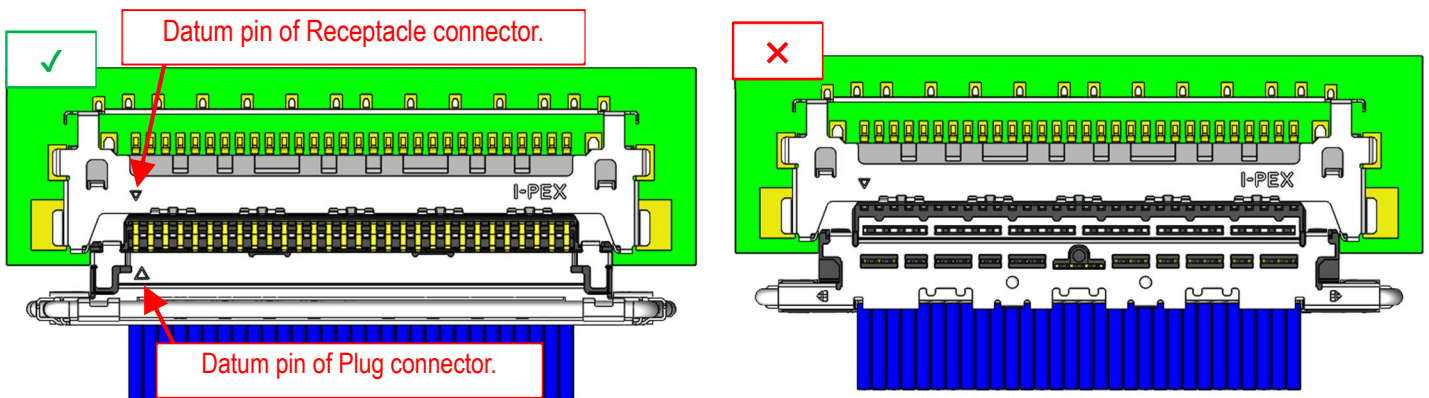


Fig.3

- ③ Pre-insert the plug connector into the receptacle connector.
 The insertion angle in the height direction is within 8° as shown in Fig.4.
 Pre-insert until the plug connector is parallel to the receptacle connector as shown in Fig.5
 ※Pre-insert without applying excessive load in the insertion direction until both sides of the plug connector overlap the receptacle connector.

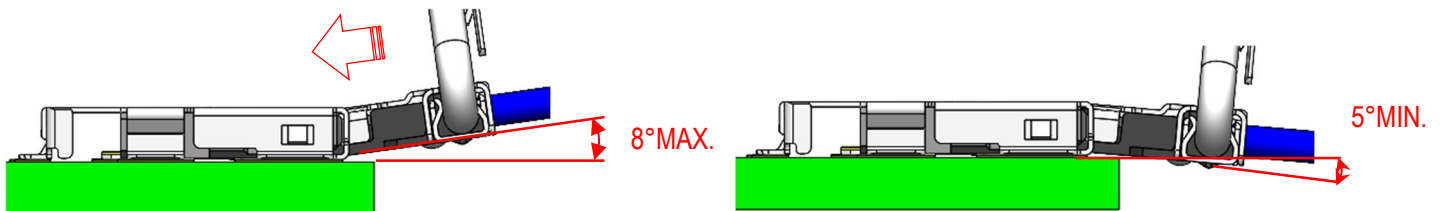


Fig.4

Pre-insert

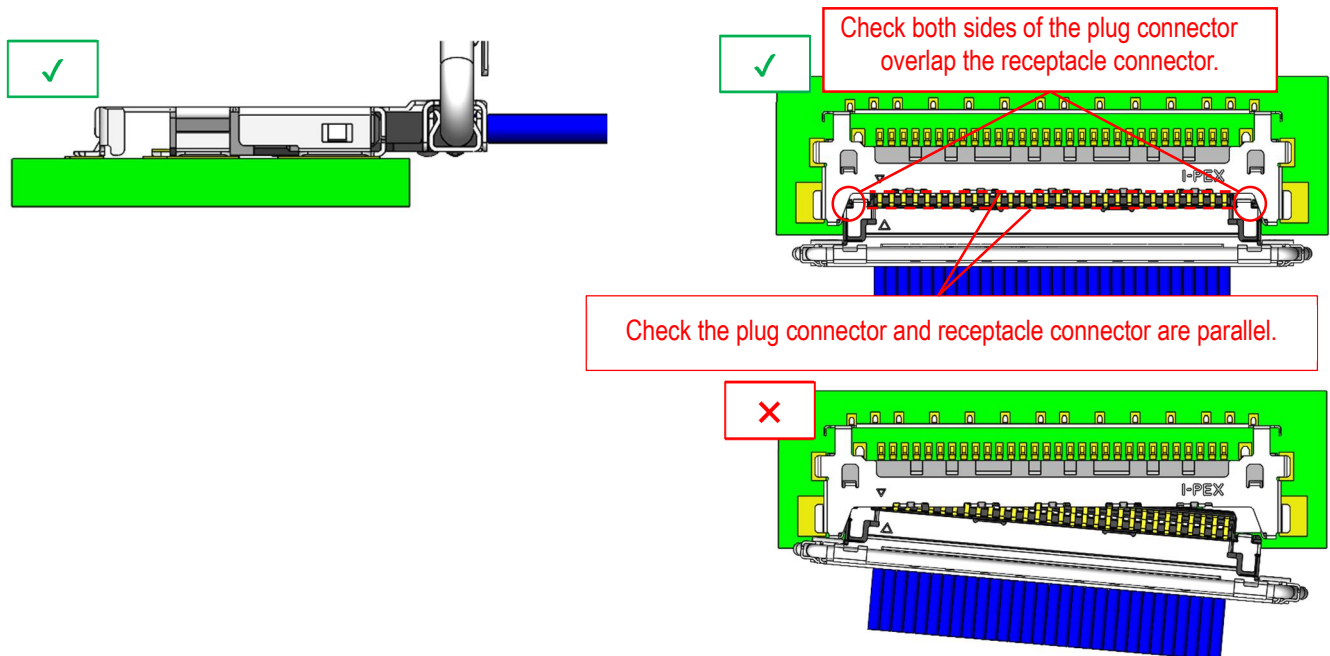


Fig.5

<Caution 2>

If Pre-insert is NG, repeat step ③.

- ④ Insert the plug connector into the receptacle connector.
Push both ends of plug connector horizontally as shown in Fig.6 and confirm there is no gap.

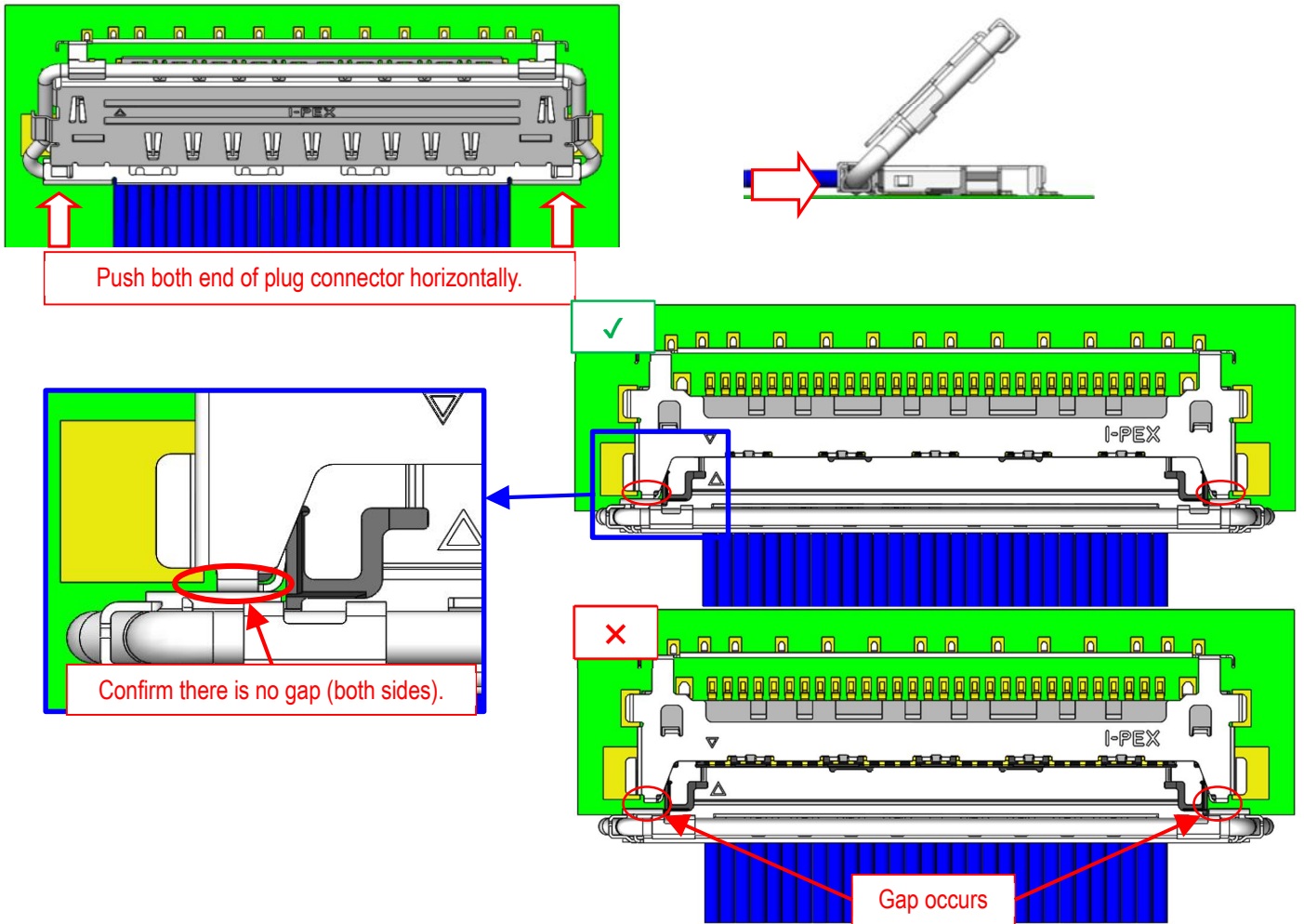


Fig.6

<Caution 3>

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.

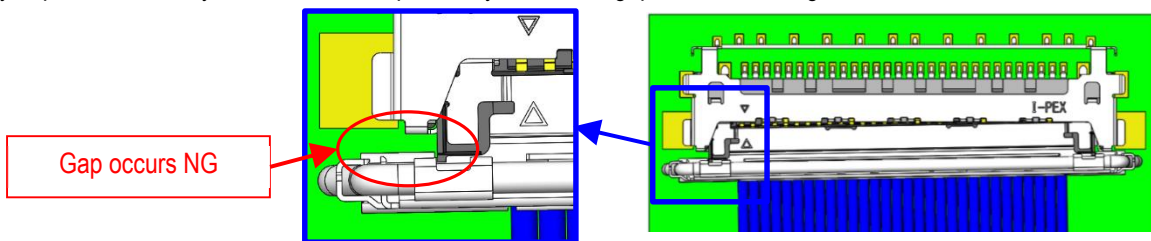


Fig.7

<Caution 4>

Don't insert the plug connector into the receptacle connector the state shown in Fig.8.
The connector may be damaged and no conductivity.

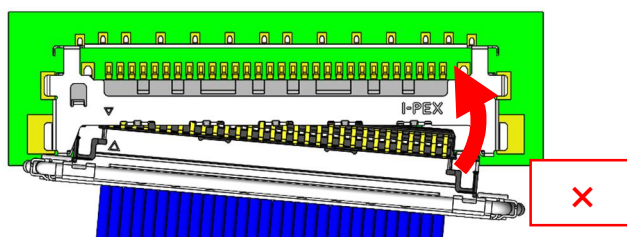


Fig.8

<Caution 5>

Don't insert the plug connector into the receptacle connector before it has not been pre-insert as shown in Fig.9
The connector may be damaged.

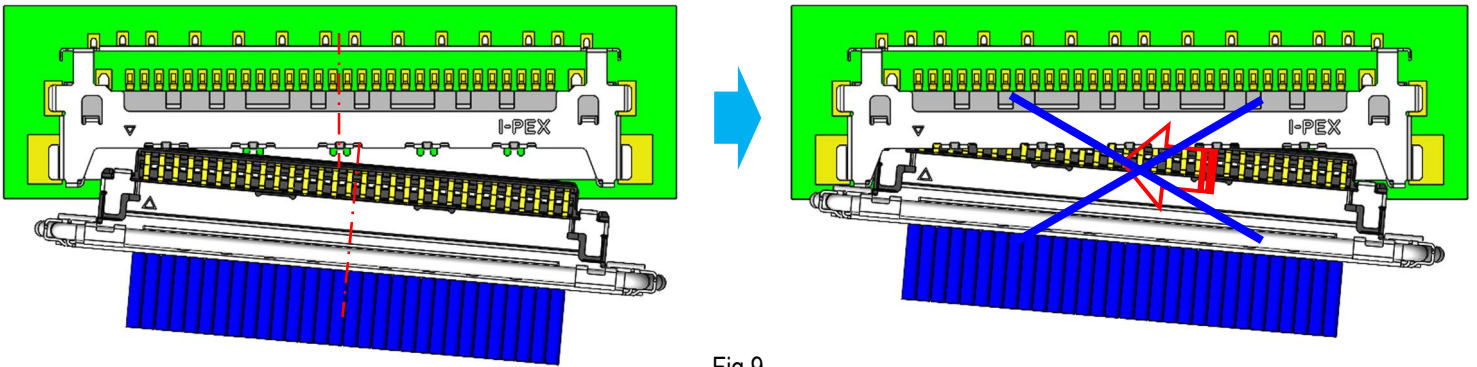


Fig.9

<Caution 6>

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

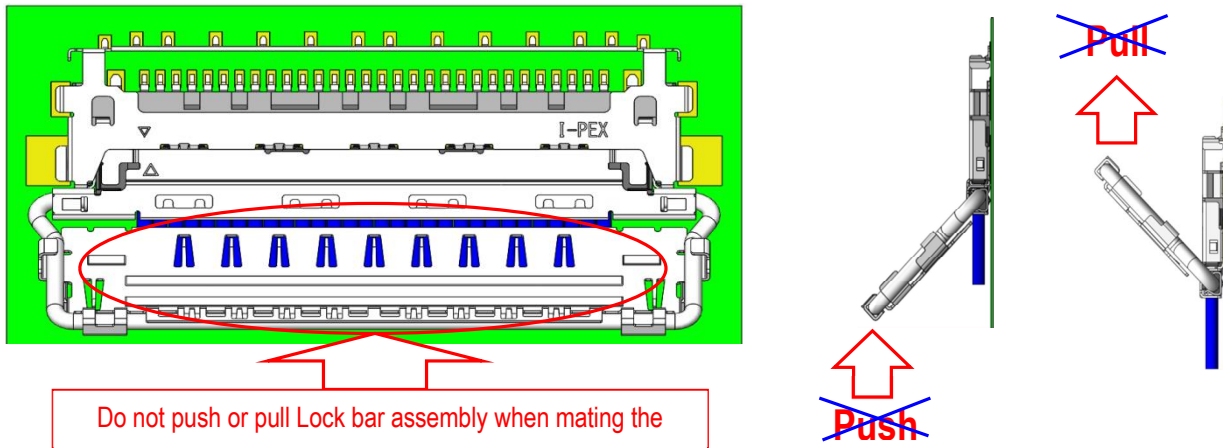


Fig.10

<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.

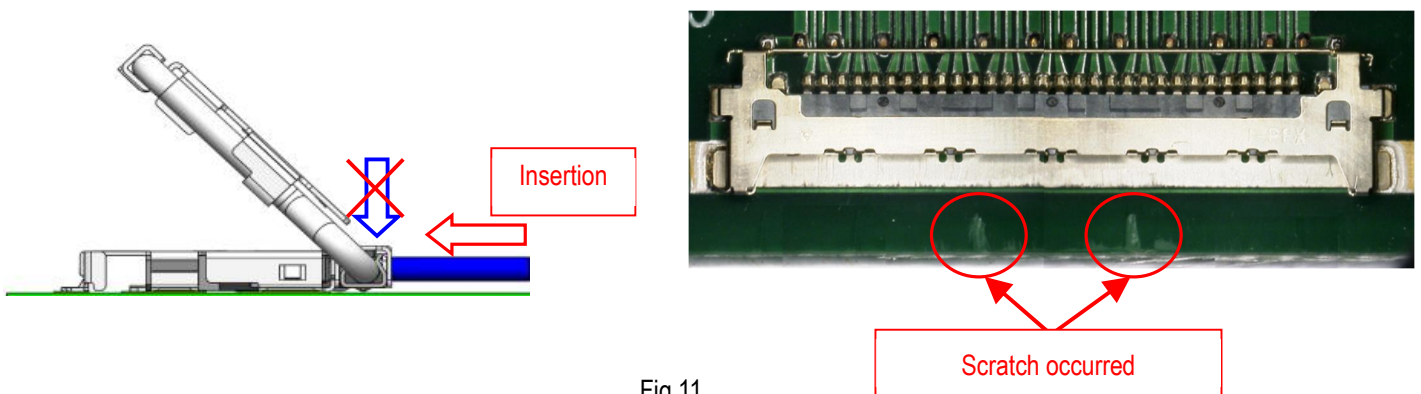


Fig.11

- ⑤ Push **two circled** area of a cover down toward the PCB direction at a same time to lock receptacle shell and lock bar.

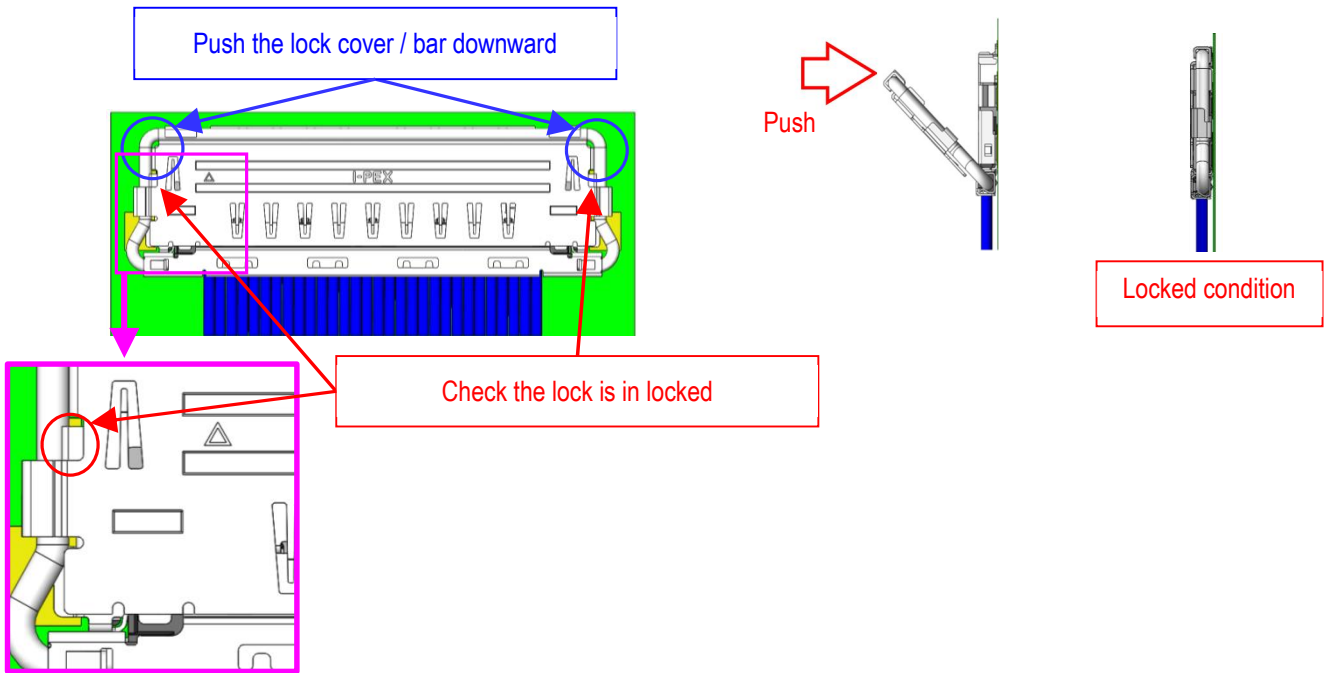


Fig.12

<Caution 7>

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

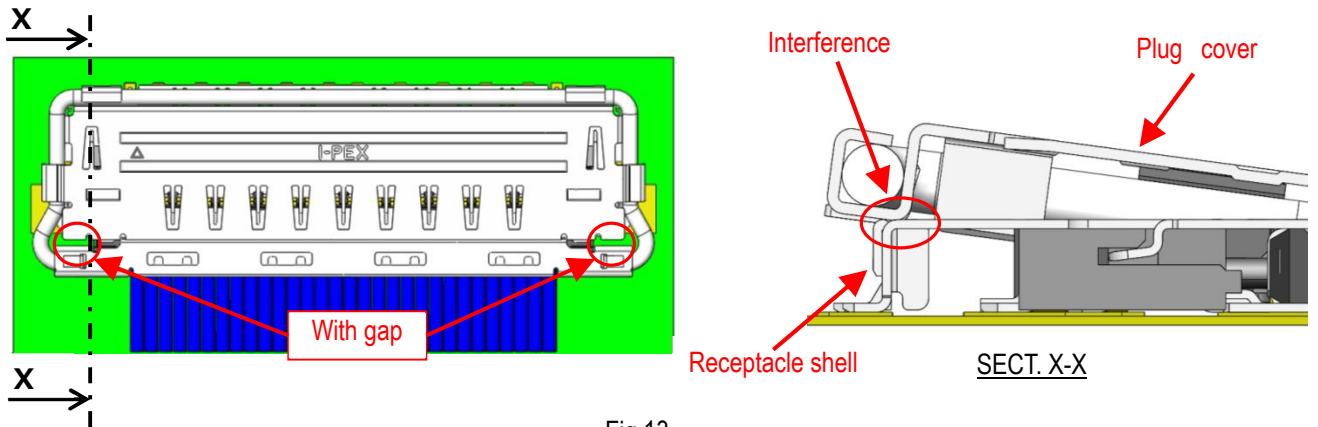


Fig.13

【Connector Withdrawal Method】

- ① Lift the circled positions of the pull bar upward to release the lock. Then, turn lock bar assembly as shown in Fig.14.

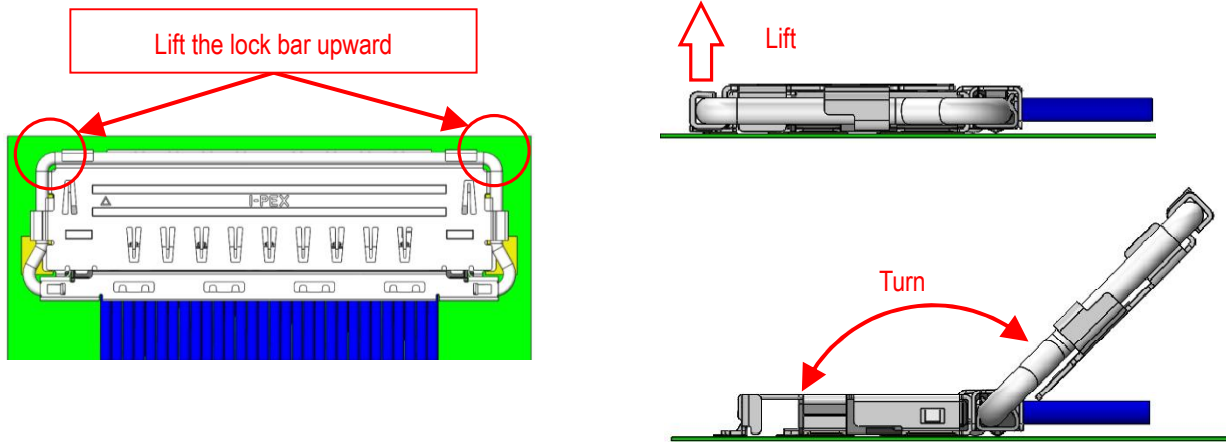


Fig.14

<Caution 8>

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

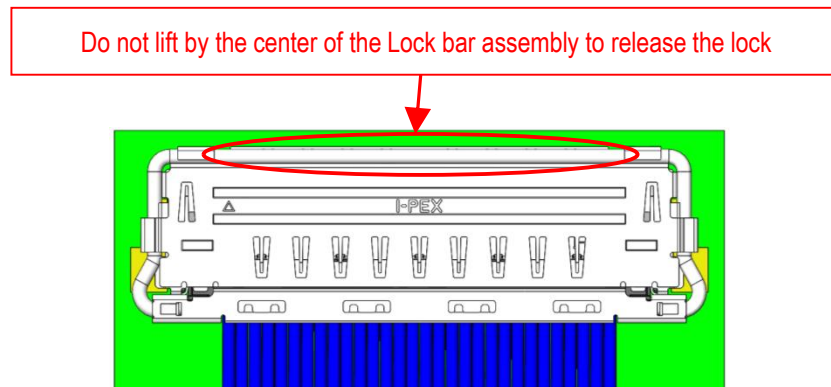


Fig.15

- ② As shown in Fig.16, hold both ends of the Plug connector and withdrawal it parallel.

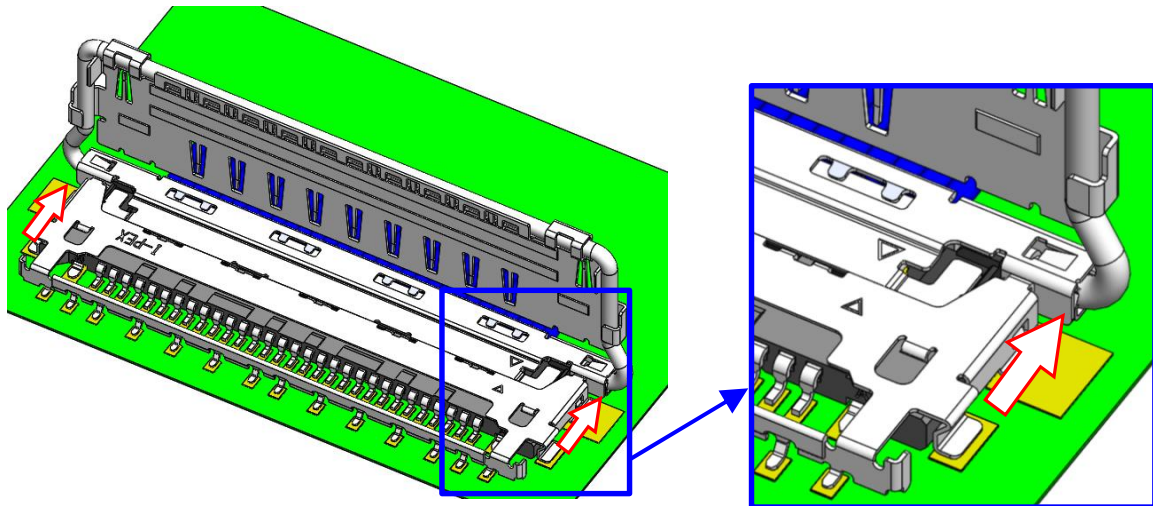
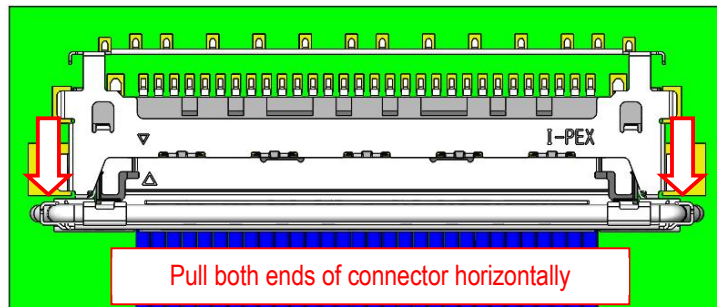


Fig.16

<Caution 9>

Please don't pull out the plug connector at an angle to the receptacle connector.

Please pull out both ends of the plug connector horizontally so that the plug connector does not become slanted during removal.

If you do not, the connector may be damaged.

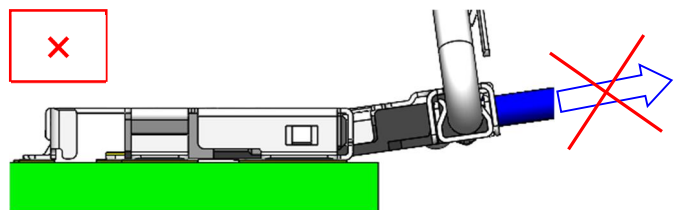
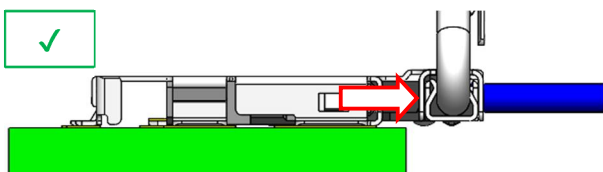
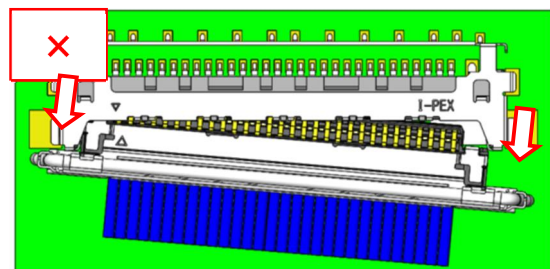
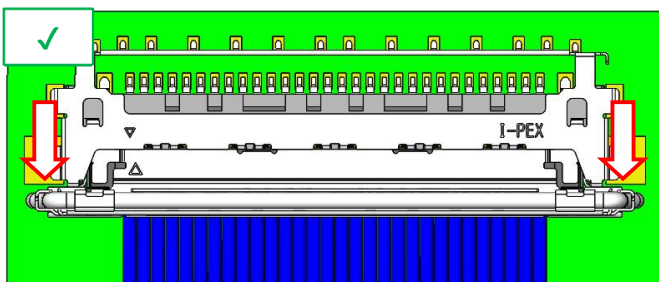


Fig.17

< Caution 10 >

Please do not withdraw the connector by pulling the cable.
There is possibility to beak the cable.

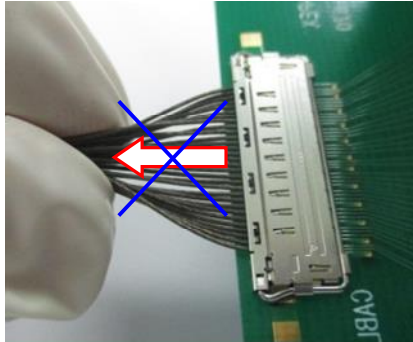
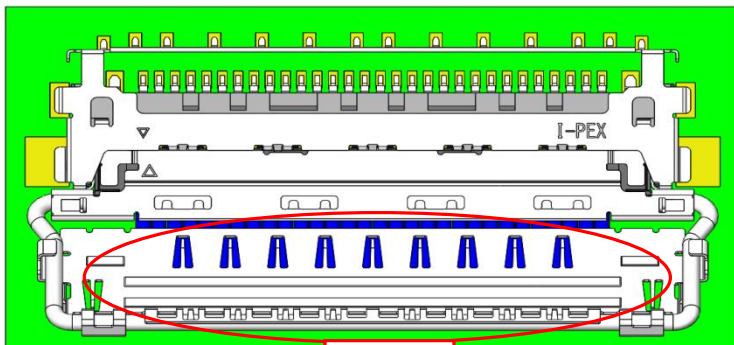


Fig.18

<Caution 11>

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



Do not withdraw the connector by pulling or pushing the Lock bar

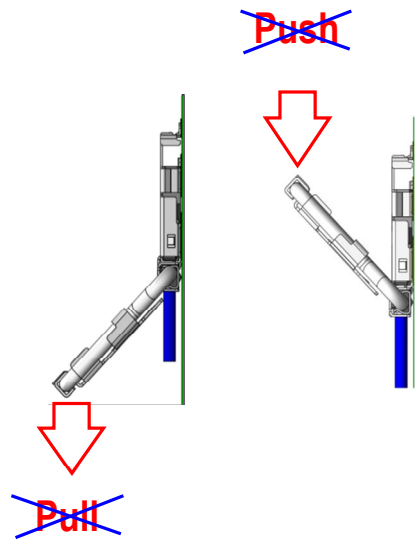
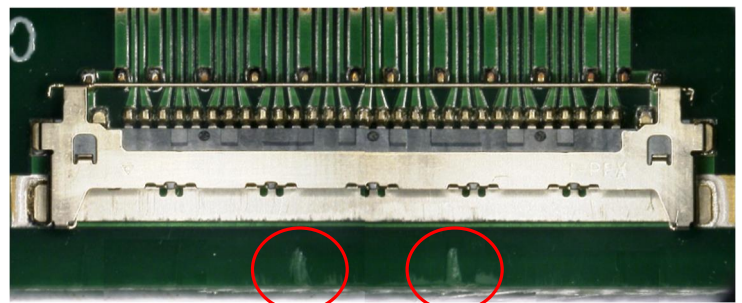
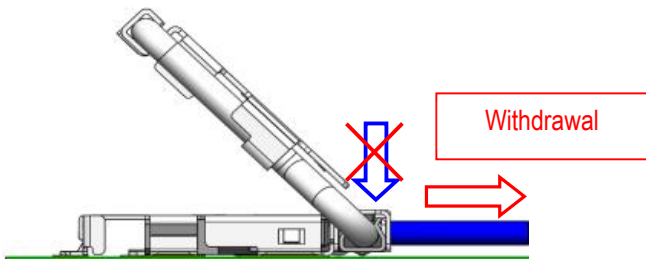


Fig.19

<Caution 12>

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.



Scratch occurred

Fig.20

【Cautions in handling the connector】

- ① Do not pull the cable of the mated plug connector or the lock bar assy in any direction other than horizontal. It may cause the receptacle connector's deformation.

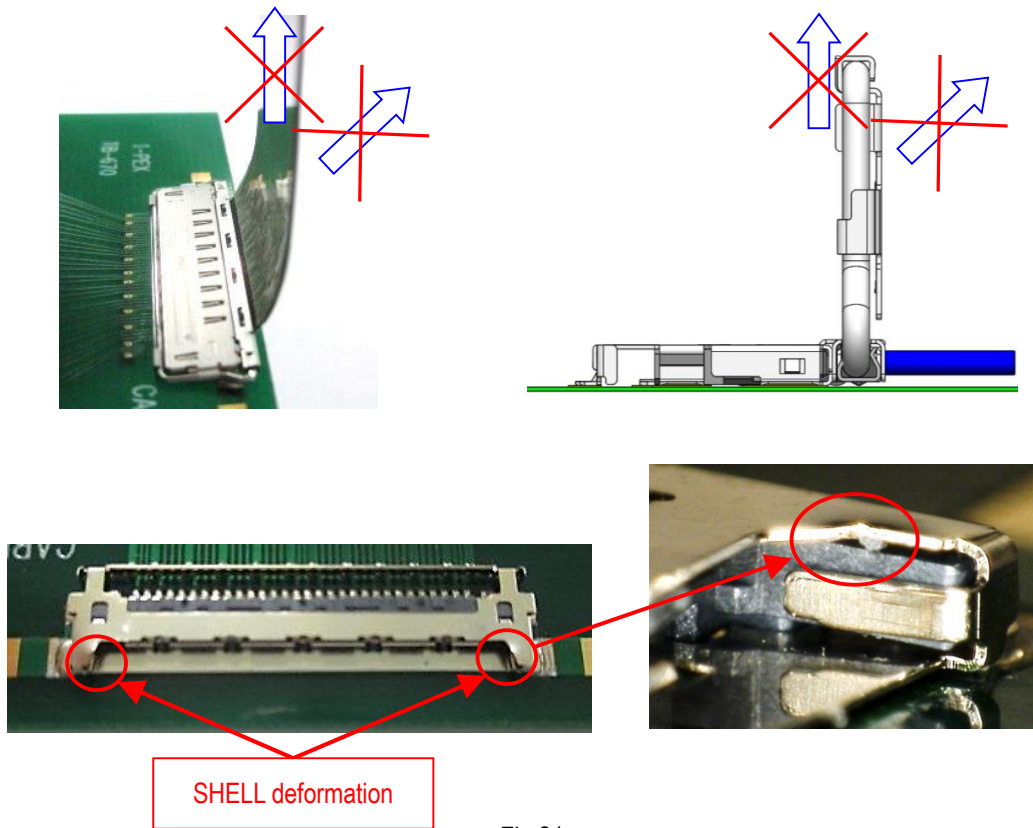


Fig.21

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