

CABLINE®-CA IIP PLUS Harness

Part No. 82065-*00B-0#

Instruction Manual

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This manual is to explain the insertion and removal methods and important points in handling of CABLINE-CA IIP PLUS Harness for the purpose of proper use.

1. Product Names and Part Numbers

• Plug Connector

Product Name: CABLINE-CA IIP PLUS Harness

Part Number: 82065-*00B-0#

— Cable Length

— Cable Specification

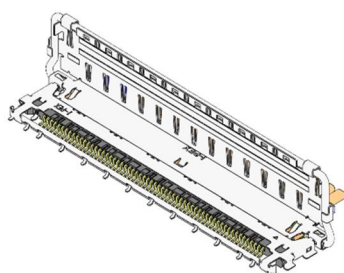


Fig. 1 Plug Cover Opened Harness

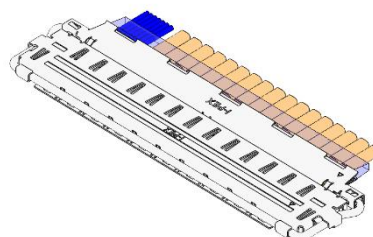


Fig. 2 Plug Cover Closed Harness

• Receptacle Connector

Product Name: CABLINE-CA II PLUS receptacle

Part Number: 20790-060E-0#

1: With Boss

2: Without Boss

For detailed information on the variations indicated by "*" and "#", please refer to the drawing.

2. Names of the Connector Parts

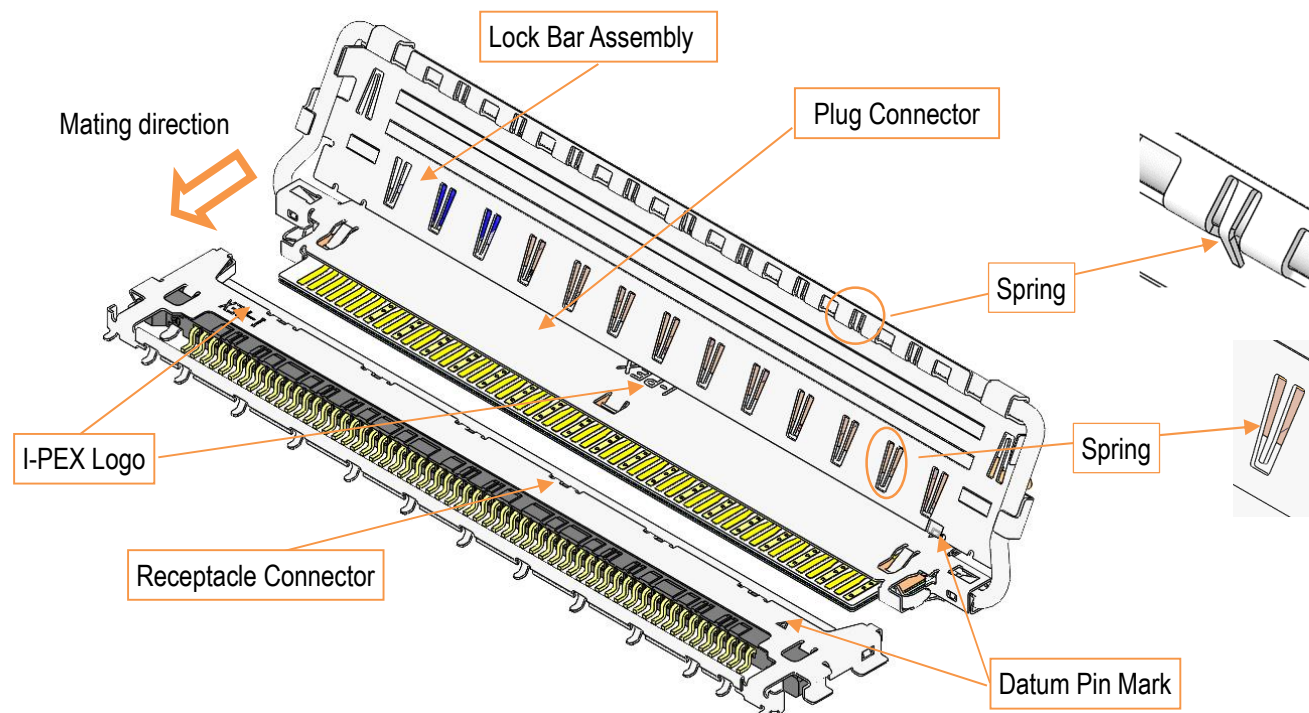


Fig. 3 Names of the Connector Parts

3. Connector Insertion Methods

3.1 Align the datum pin marks of the plug connector and the receptacle connector.

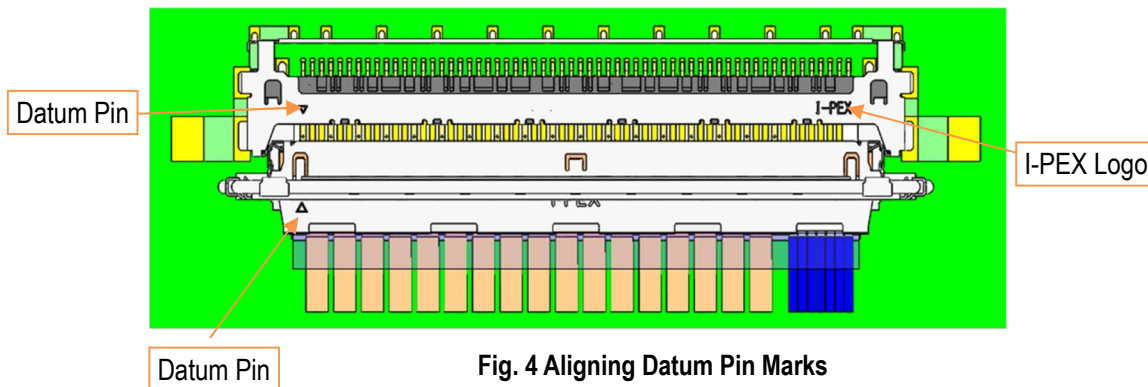


Fig. 4 Aligning Datum Pin Marks

3.2 Pre-insert the plug connector to the receptacle connector. Do not apply excessive load while pre-insertion.

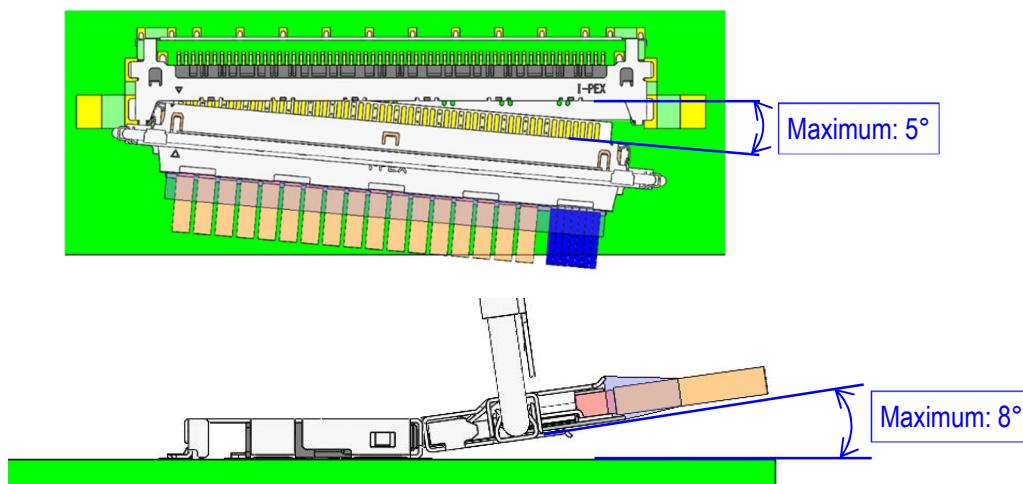


Fig. 5 Maximum Horizontal / Vertical Insertion Angle

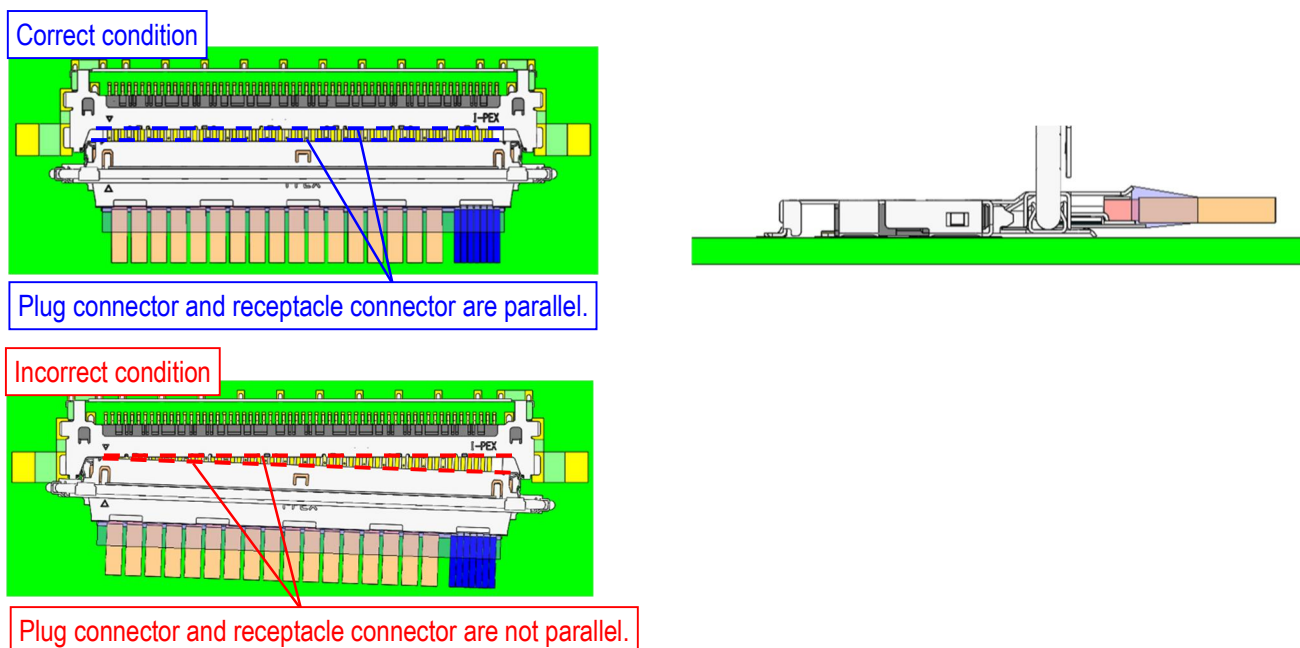


Fig. 6 After Pre-insertion Condition

3.3 Push ends of the plug connector horizontally along the guide after the pre-insertion. Ensure that the gap is undetected after the insertion.

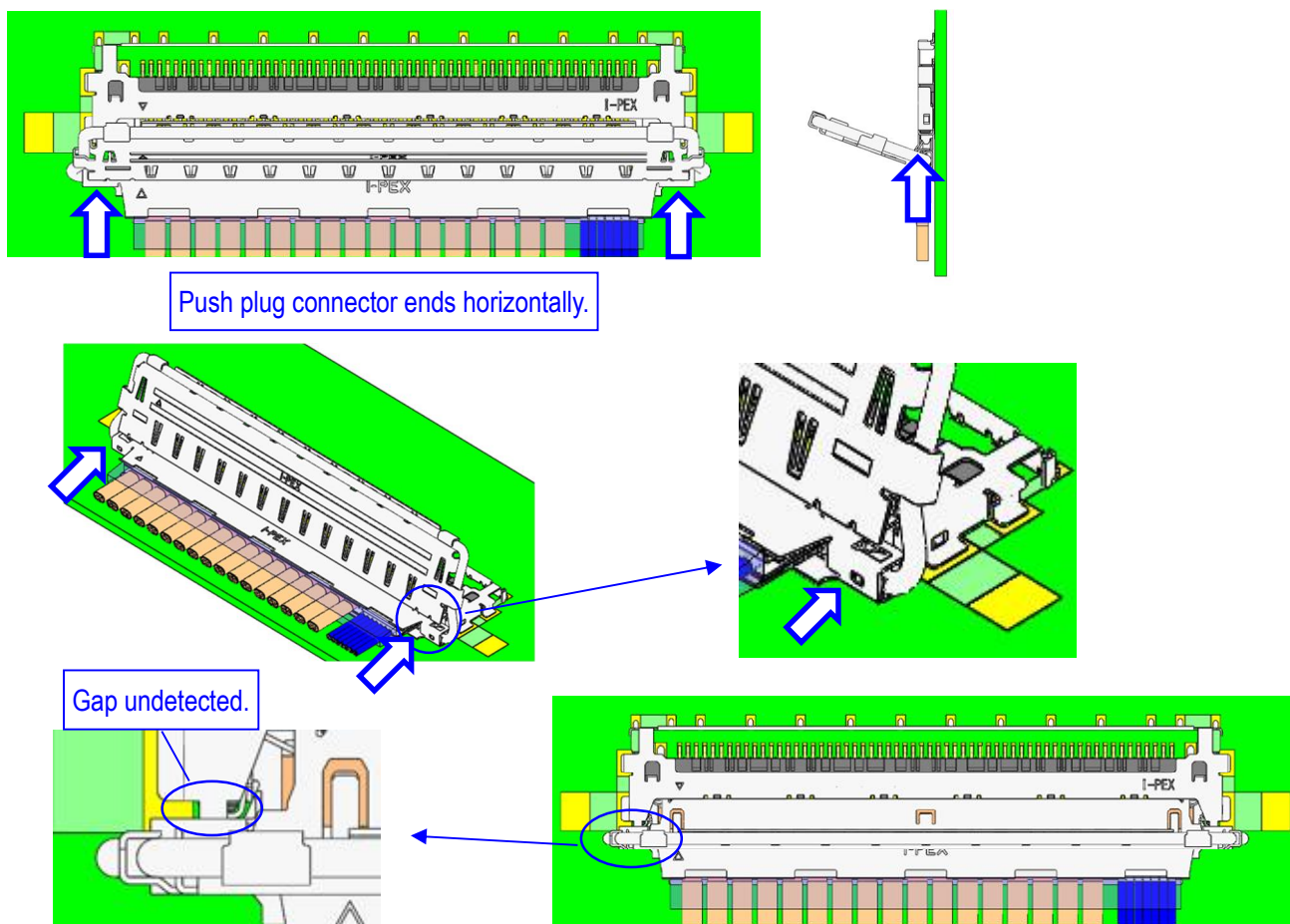


Fig. 7 Correct Insertion Method

Caution 1

Do not push one side of the plug connector alternately, as it may result in the incomplete insertion.

*Gap indicates incomplete insertion.

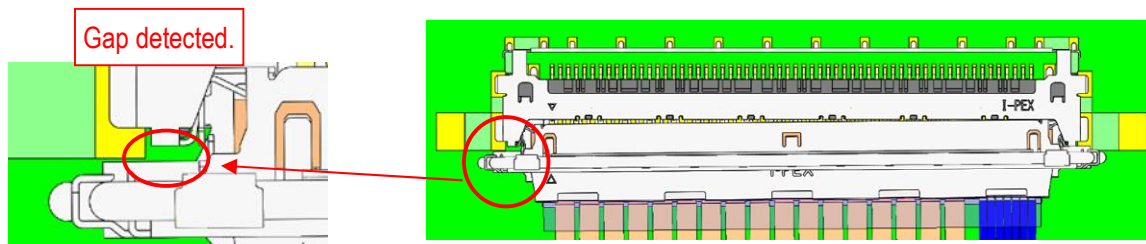


Fig. 8 Incorrect Insertion Check

Do not close the plug connector cover if a gap is detected, as it may cause interference and deformation.

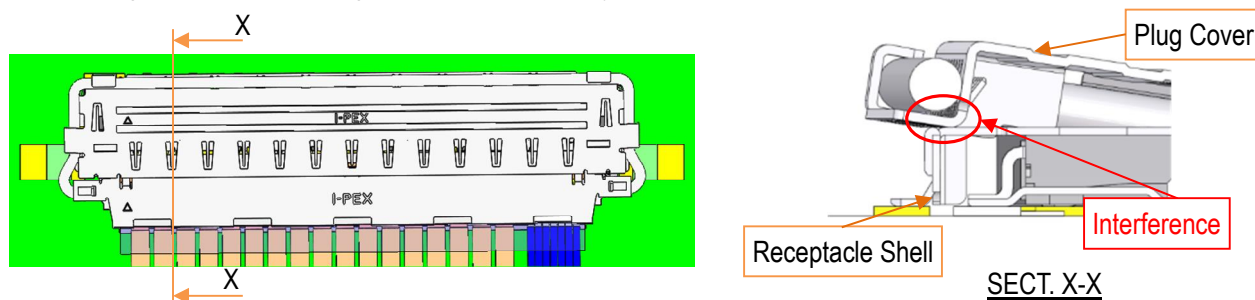


Fig. 9 Plug and Receptacle Interference

Caution 2

Ensure that the plug connector is inserted along the guide, as it may result in deformation.

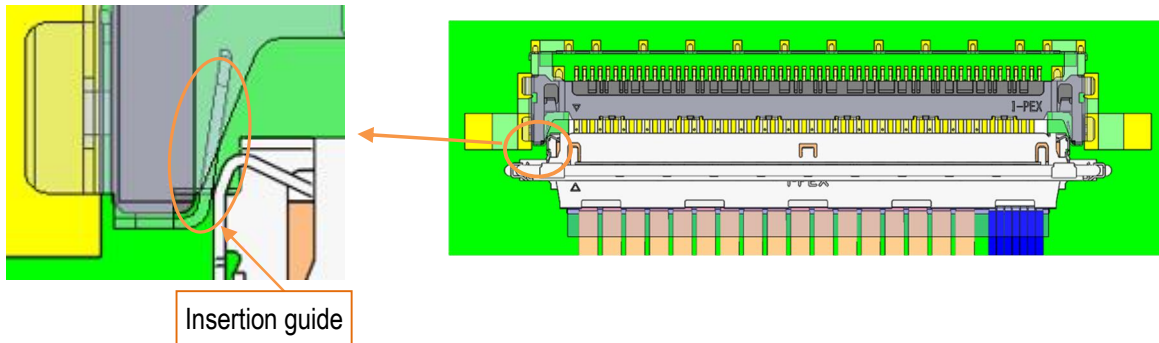


Fig. 10 Insertion Guide

Caution 3

Do not exceed 5° horizontal insertion angle during pre-insertion, as it may result in the damage or deformation.

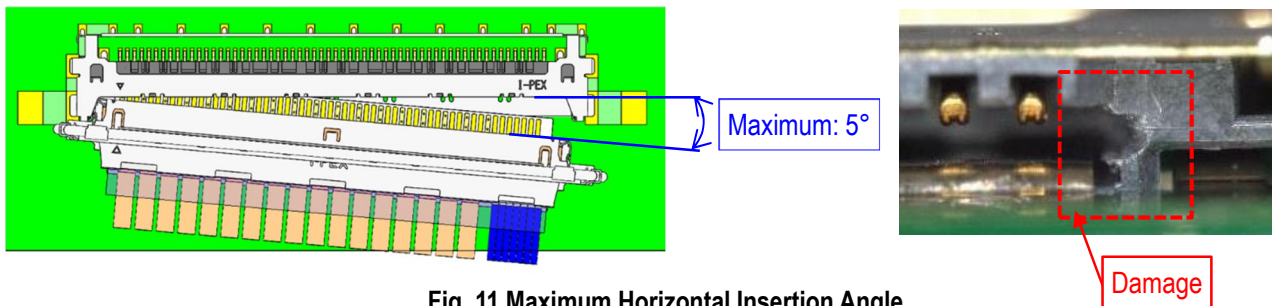


Fig. 11 Maximum Horizontal Insertion Angle

Caution 4

The lock bar assembly will stop upon contacting the plug shell.

Do not push the lock bar assembly beyond the stop position, as it may result in plug shell deformation.

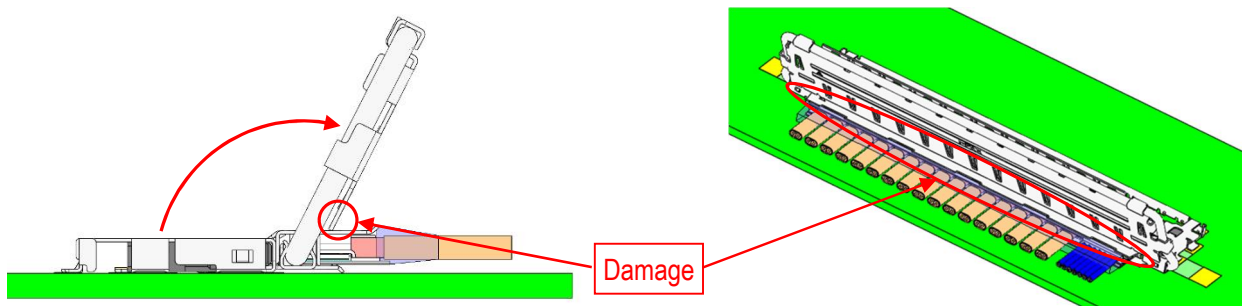


Fig. 12 The Lock Bar Opening Limitation

Caution 5

Do not exceed 8° vertical insertion angle during pre-insertion, as it may result in the damage or deformation.

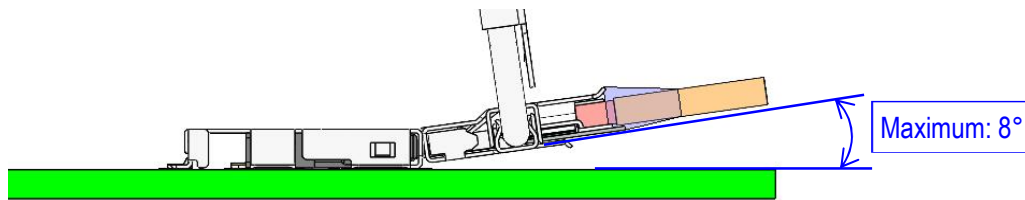


Fig. 13 Maximum Vertical Insertion Angle at Pre-insertion

Caution 6

Do not insert the plug connector by pushing or pulling the lock bar assembly, as it may result in connector damage and the lock bar assembly deformation.

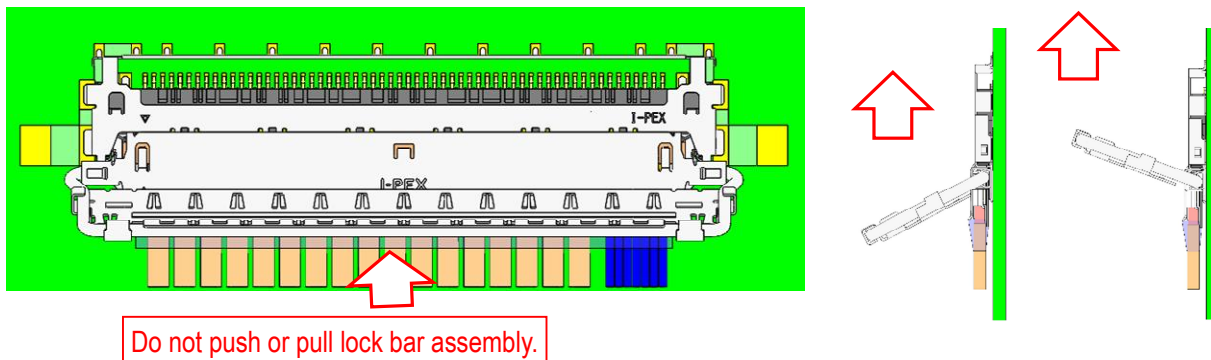


Fig. 14 Incorrect Insertion Method

Caution 7

Do not apply the force to the plug connector toward the PCB, as it may damage the PCB and result in the disconnection or short circuit.



Fig. 15 Force Applying Prohibition

3.4 Push the circled areas of the lock bar assembly toward the PCB to lock the receptacle shell and the lock bar assembly.

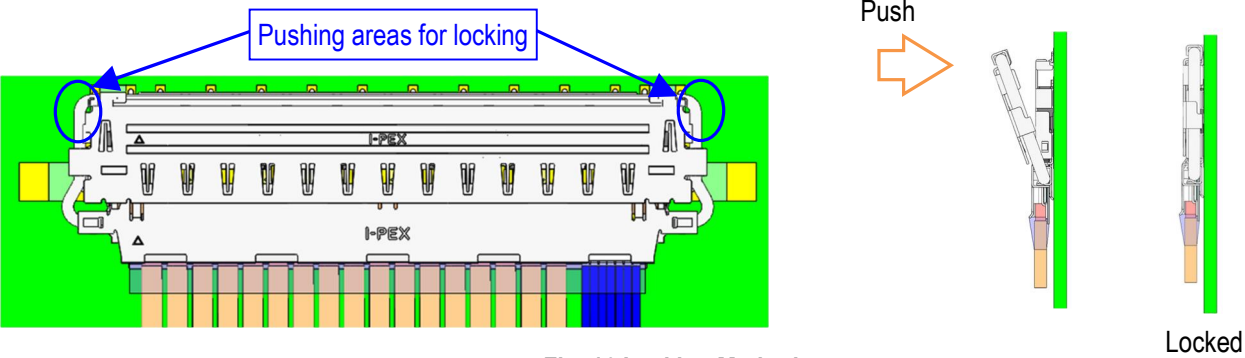


Fig. 16 Locking Method

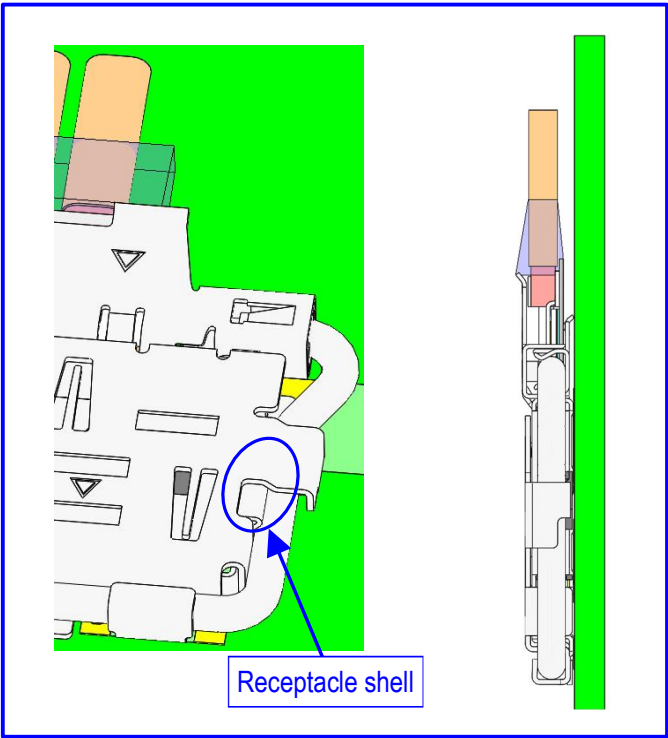


Fig. 17 Correctly Locked

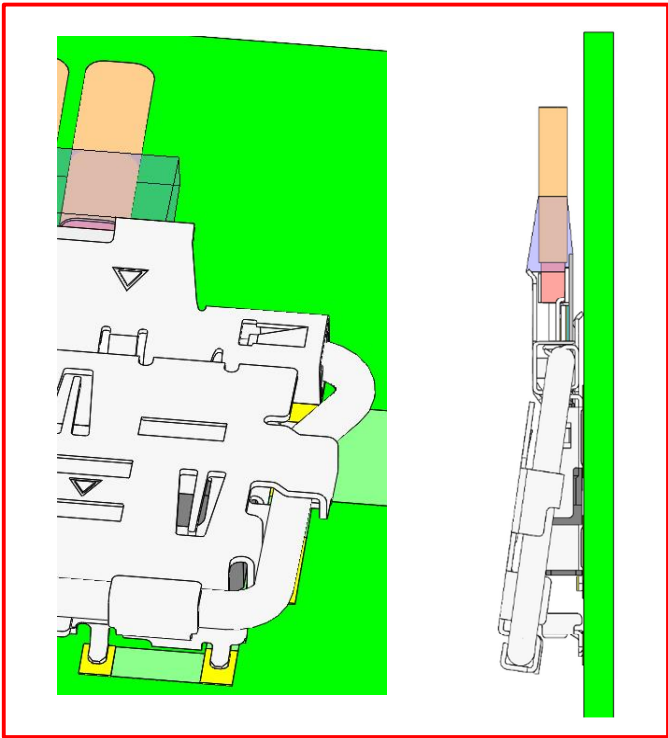


Fig. 18 Incorrectly Locked

4. Connector Removal Method

4.1 Lift up the circled area of the lock bar assembly and rotate it to release the lock from the receptacle connector.

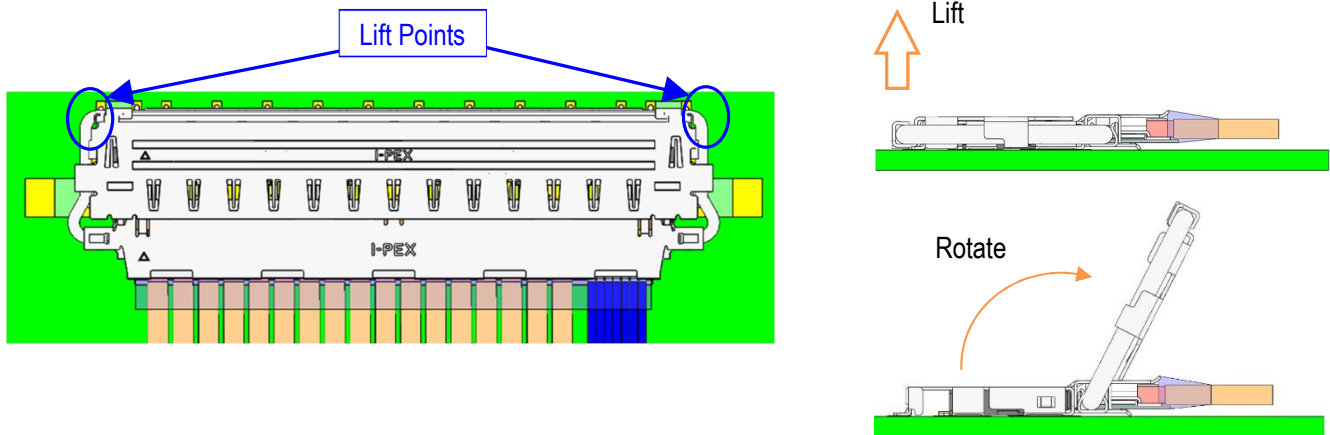


Fig. 19 Lock Release Method

Caution 8

Do not lift circled area of the lock bar assembly during removal, as it may result in the deformation.

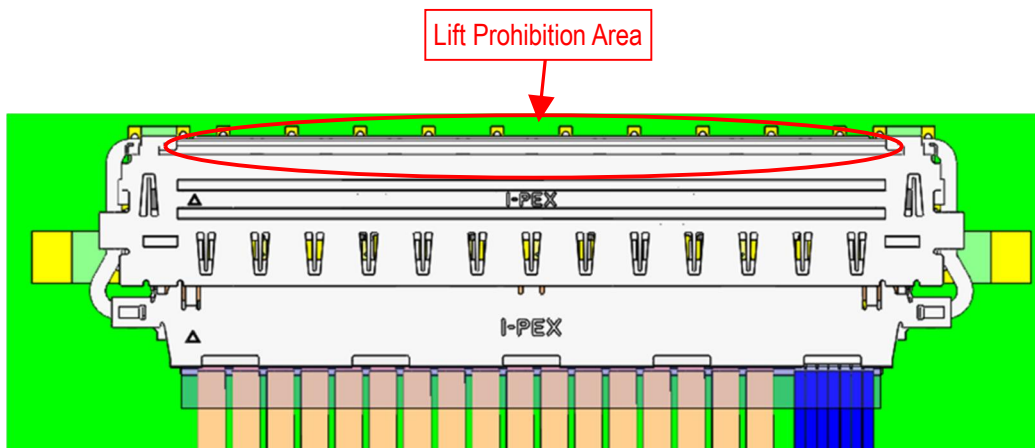


Fig. 20 Lift Prohibition Area

4.2 Hold the lock bar ends indicated by arrows below and pull horizontally, keeping the ends parallel.

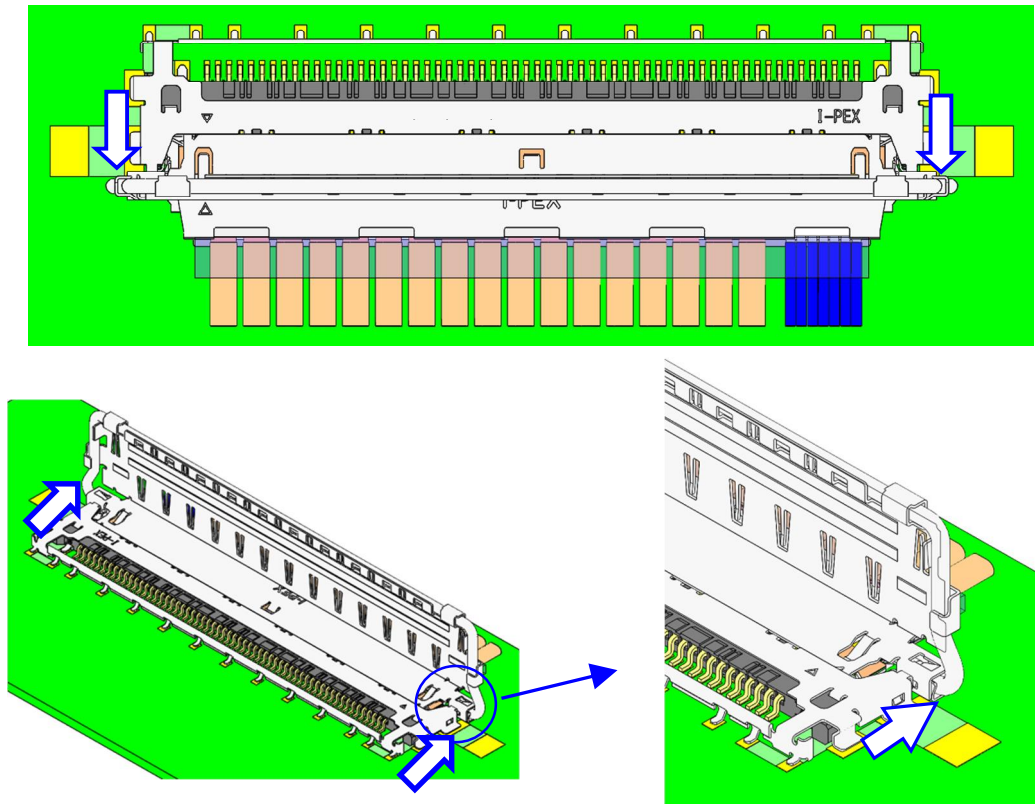


Fig. 21 Correct Removal Method

Caution 9

Do not exceed 5° horizontal removal angle during removal, as it may result in the damage or deformation.

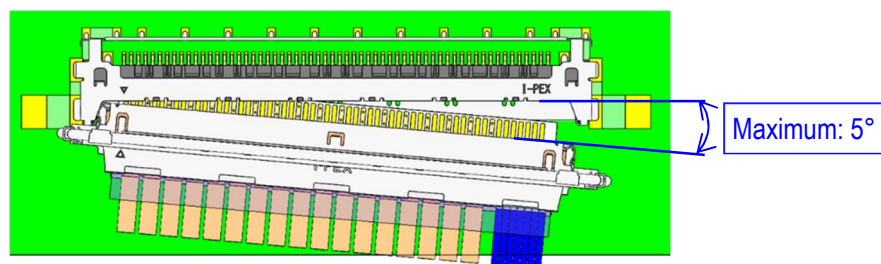


Fig. 22 Maximum Horizontal Removal Angle

Caution 10

Do not push or pull circled area of the lock bar assembly during removal, as it may result in the damage or deformation.

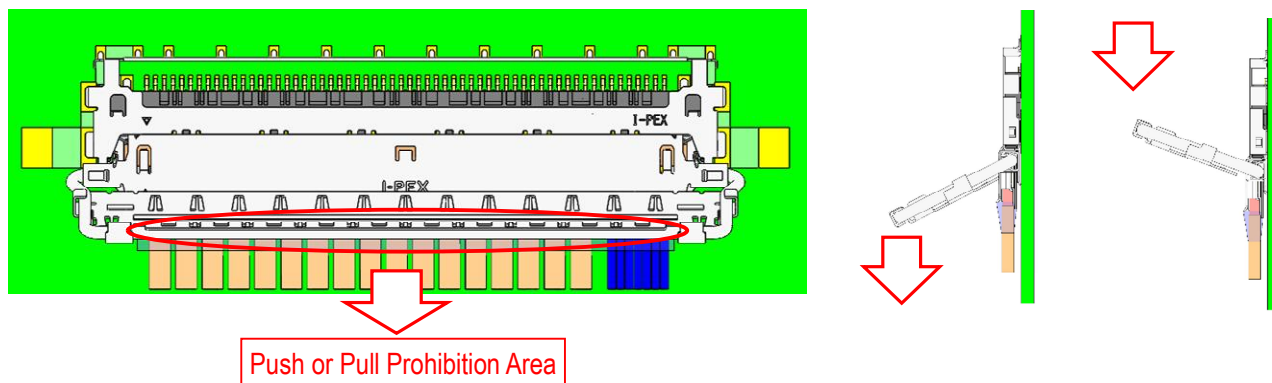


Fig. 23 Incorrect Removal Method

Caution 11

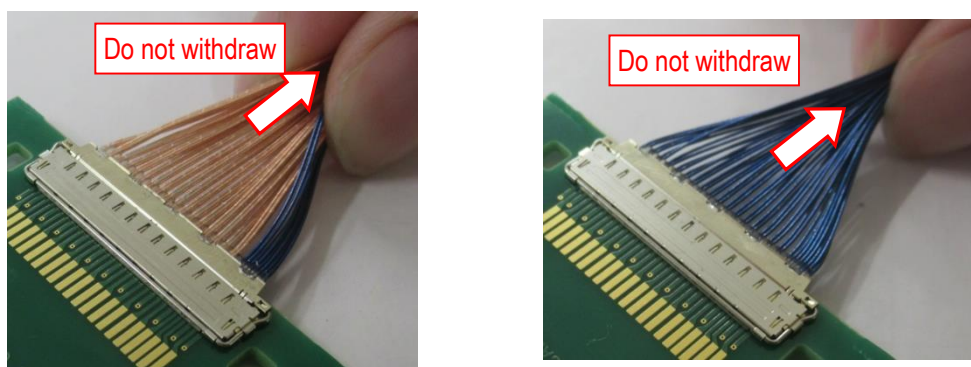
Do not apply the force to the plug connector toward the PCB during removal, as it may damage the PCB and result in the disconnection or short.



Fig. 24 Force Applying Prohibition

Caution 12

Do not apply withdraw the plug connector by pulling the cable, it may result in the disconnection by cable breakage.



5. Cautions in handling the harness

5.1 Do not pull up the cable or the lock bar assembly upward, as it may result in the deformation of the receptacle connector.

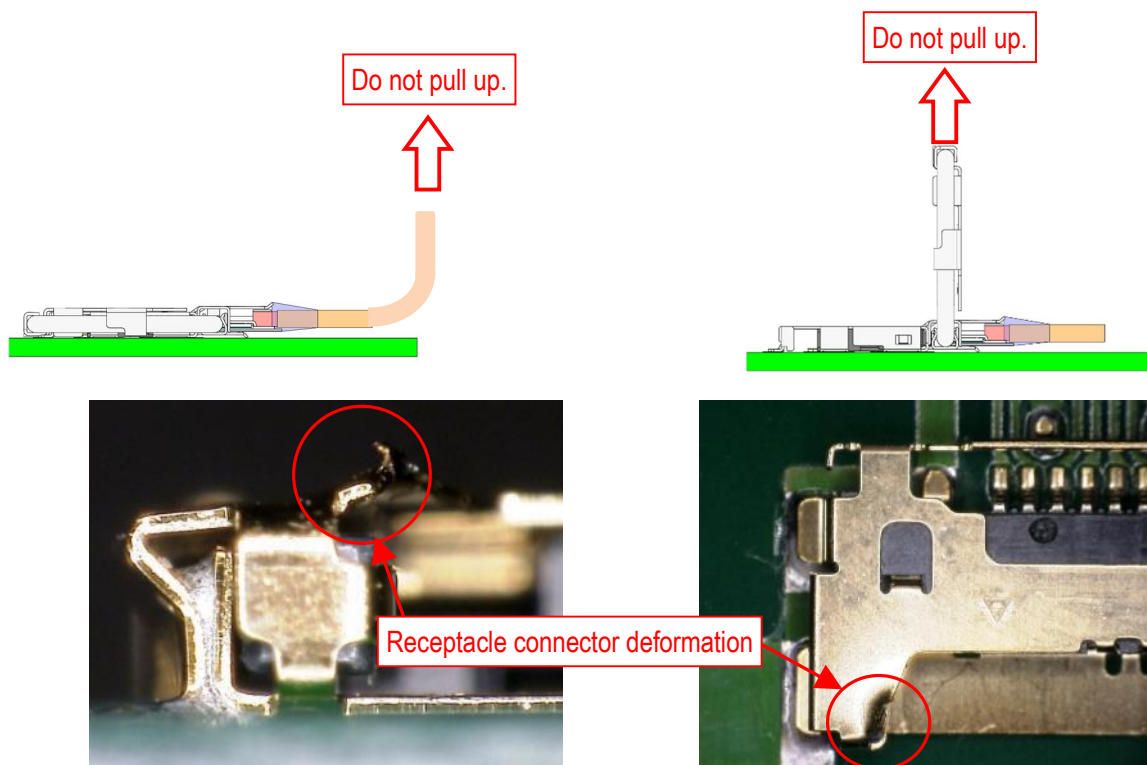


Fig. 25 Prohibition of Harness and Lock Bar Assembly Handling

- 5.2 Do not apply the continuous stress or excessive load to the cable, as it may result in the mating failure, the receptacle connector deformation, or the cable breakage.
When bending cable, ensure that stress or excessive load is not applied to the connectors.

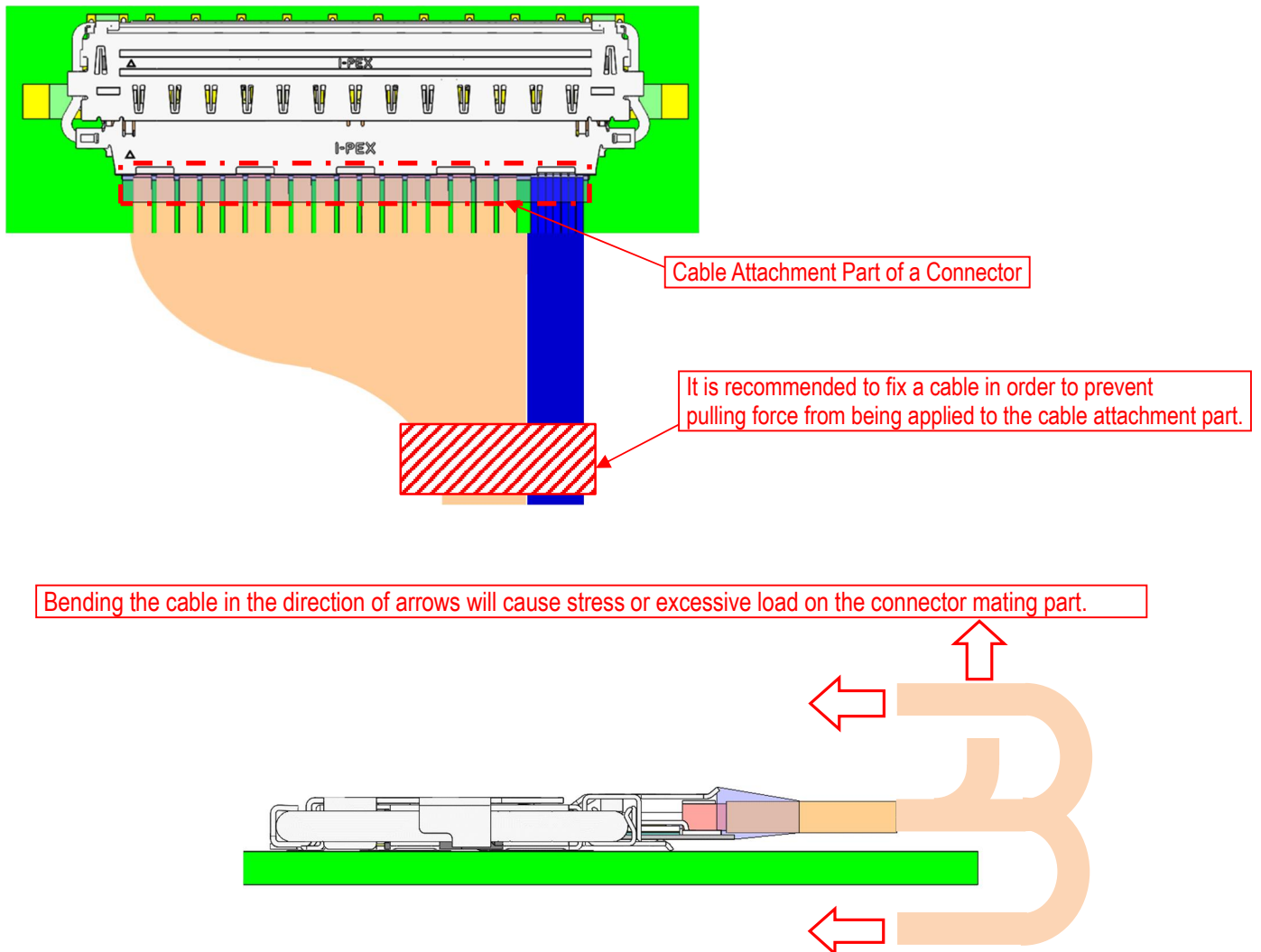


Fig. 26 Harness Prohibited Bending Direction