

MTIII/JPT/SPT HYB 58 Pos. Connector

# Instruction Sheet

**1. PART NUMBER AND PART NAME**

- 1.1 Housing
- 1.2 Contact
- 1.3 Component View

**2. CUSTOMER RECEIVING INSPECTION****3. STORAGE AND CARRYING**

- 3.1 Contact
- 3.2 Housing

**4. CRIMPING OPERATION**

- 4.1 Wire
- 4.2 Crimping Specification
- 4.3 Storage and Handling of crimping products

**5. HARNESS ASSEMBLY (PLUG & CAP)**

- 5.1 How to insertion male and female terminal to connector
- 5.2 TPA final lock (Secondary lock)
- 5.3 TPA unlock
- 5.4 How to removal male and female terminal from connector

**7. WIRE HARNESS CONTROL****8. CONNECTOR ASSEMBLY AND DISASSEMBLY OPERATION**

- 6.1 Connector assembly
- 6.2 Connector disassembly

**7. SPECIFICATION APPROVAL**

## 1. PART NUMBER AND PART NAME

### 1.1 HOUSING

PART NUMBER	PART NAME
X-2005275-X	MTIII/JPT/SPT HYB 58P CAP ASSY
X-2005276-X	MTIII/JPT/SPT HYB 58P CAP HSG
2005277-1	MTIII/JPT/SPT HYB 58P CAP DBL HSG
2005278-2	MTIII/JPT/SPT HYB 58P CAP LEVER HSG
2005279-6	MTIII/JPT/SPT HYB 58P CAP CPA HSG
2005280-3	MTIII/JPT/SPT HYB 58P CAP BRACKET HSG
X-2005281-2	MTIII/JPT/SPT HYB 58P PLUG ASSY
X-2005282-X	MTIII/JPT/SPT HYB 58P PLUG HSG
2005283-1	MTIII/JPT/SPT HYB 58P PLUG DBL HSG

Fig. 1

### 1.2 CONTACT

#### 1.2.1 REC. CONTACT

PART NUMBER	PART NAME	APPLICABLE WIRE RANGE(mm <sup>2</sup> )
1241858-2	MTIII PRE-TIN	0.2 ~ 0.35
1241860-2		0.5 ~ 1.0
964284-1	JPT PRE-TIN	0.5 ~ 1.0
965999-1		1.5 ~ 2.5
964326-1	SPT PRE-TIN	>1.0 ~ 2.5
964328-1		2.5 ~ 4.0

Fig. 2

#### 1.2.2 TAB. CONTACT

Part Number	Part Name	Applicable Wire Range
964265-2	MTIII PRE-TIN	0.2 ~ 0.35
964267-2		0.5 ~ 1.0
2-964294-1	JPT PRE-TIN	0.5 ~ 1.0
2-964296-1		1.25 ~ 2.5
964306-1	SPT PRE-TIN	>1.0 ~ 2.5
964308-1		2.5 ~ 4.0

Fig. 3

## 1.3 COMPONENT VIEW


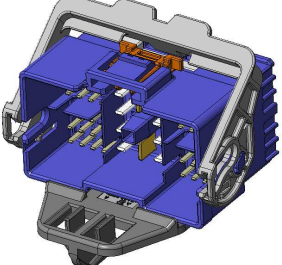

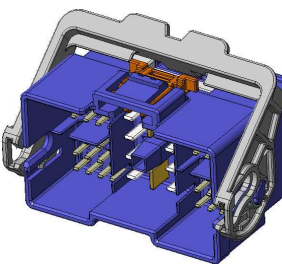

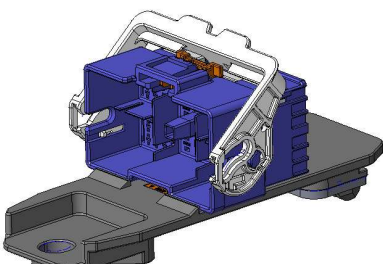
DESCRIPTION	MTIII/JPT/SPT HYB 58P PLUG ASS`Y	MTIII/JPT/SPT HYB 58P CAP ASS`Y
P/N	2005281-3	2005275-3
PRODUCT FEATURE		
P/N	2005281-3	1-2005275-3
PRODUCT FEATURE		
P/N	2005281-3	2-2005275-3
PRODUCT FEATURE		

Fig. 4

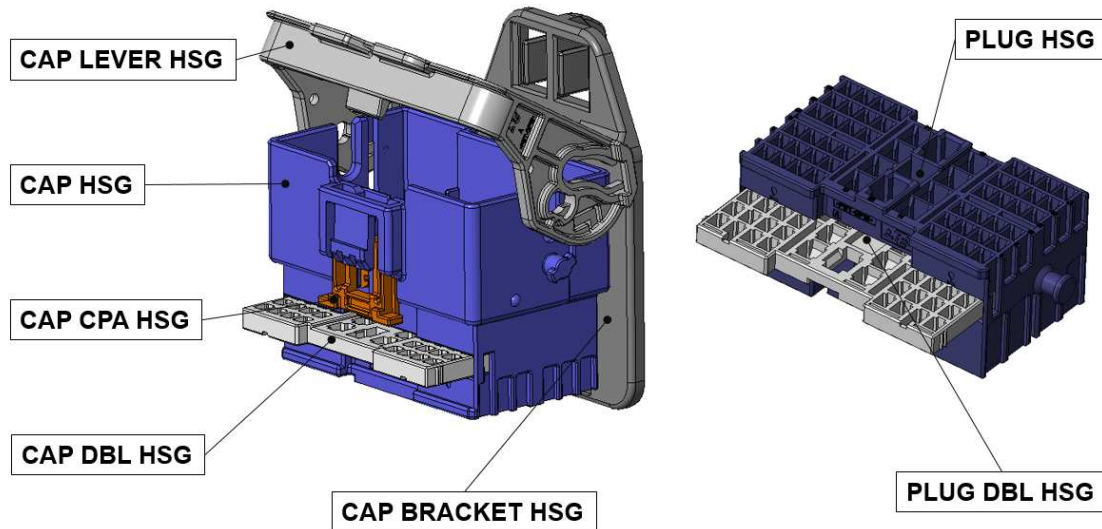


Fig. 5

## 2. CUSTOMER RECEIVING INSPECTION

Tyco conducts inspections according to their quality regulations to maintain an overall LOT control. In addition, the customers should conduct receiving inspections based on the specific customer drawing.

## 3. STORAGE AND CARRYING

### 3.1 TERMIAL

- (1) Avoid receiving or carrying the TML reel in an open area without wrapping it in proper material.
- (2) Do not lift and carry the TML by gripping one side or the reel, this may occur damage on the reel and TML before use.

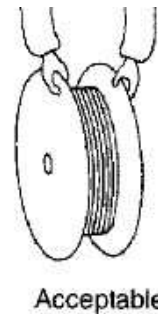


Fig. 6

- (3) Avoid storing the TML reel in a moist or dusty place. TML should keep dry and clean place(5~34 ° C, 45~85%RH) away from direct sunlight
- (4)When removing the TML reel from the machine, fasten the end of the TML strip onto the edge for the reel with use of proper string or wire. (Fig. 7)

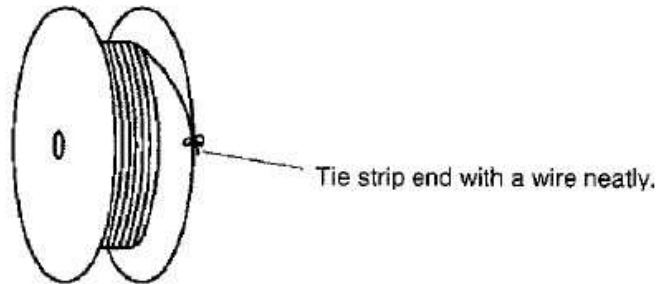


Fig. 7

## 3.2 Housing

- (1) Avoid leaving or carrying the housing in an open area without wrapping it in proper material.
- (2) Do not drop or shock the housing when carrying it.

## 4. CRIMPING OPERATION

### 4.1 Wire

#### 4.1.1 Applicable Wire

See Fig.2, Fig.3

#### 4.1.2 Notes for end of Stripping Wire

Wire end must be stripped without cut or damage of wire strands

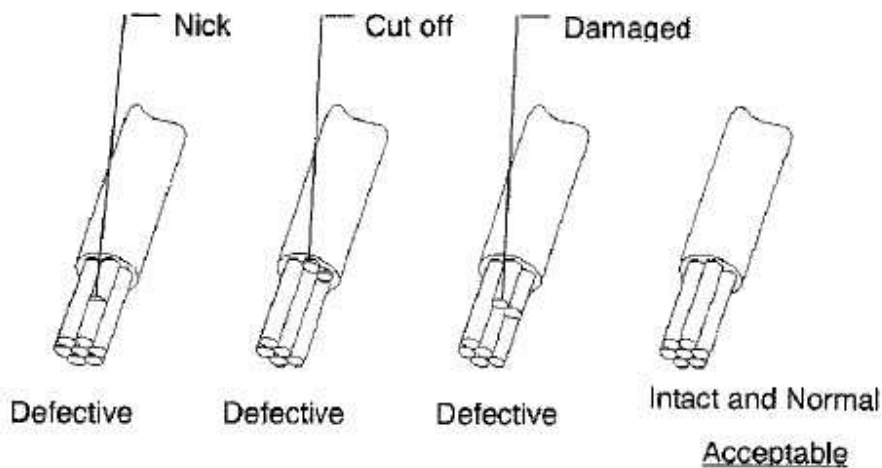


Fig. 8

## 4.2 Crimping Specification

See following application specification for the TML.

TML SPEC	.060 (MTIII)	114-18081
	.110 (JPT)	114-18050
	.187 (SPT)	114-18037

Fig. 9

## 4.3 Storage and Handling of Crimping Products

- (1) Store the products in a clean, dry area cover with proper sheet or paper when placed in an open area until next day.
- (2) Care should be taken for tangle and deform of TML in case of the leads should be in bands.
- (3) Do not stack the products so many layers, It makes electrical connection defective and low contact retention force by catch together or by deform causing the weight of themselves.
- (4) Must no hit tip of the TML to coordinate the bundle, It makes mating or electrical defective.

## 5. HARNESS ASSEMBLY (PLUG AND CAP)

### 5.1 How to insertion male and female terminal to connector

- (1) Retainer should be Pre-lock status. If TPA is Final lock status, the TML can't be inserted (See Fig.10).

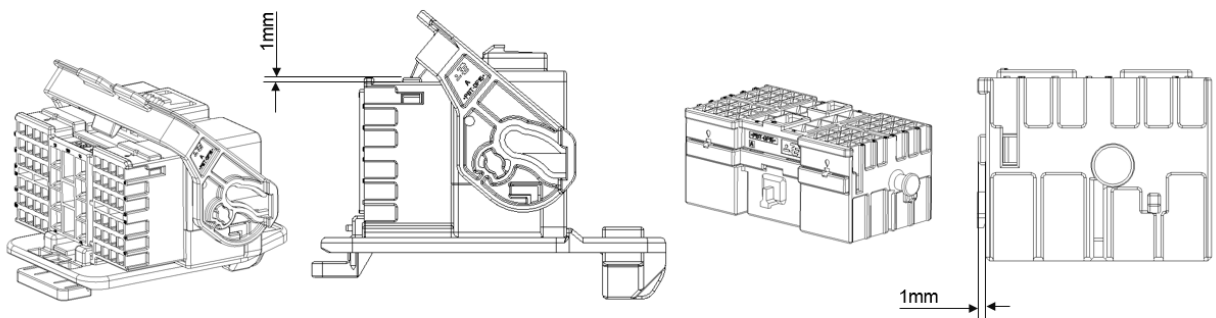


Fig. 10

**NOTE:** Between TPA and main housing need 1.0mm gap when TPA is pre-lock status.

- (2) Insert TML into the each cavity with proper TML direction (See Fig.11).  
Operation is completed when TML is latched and the insertion is stopped

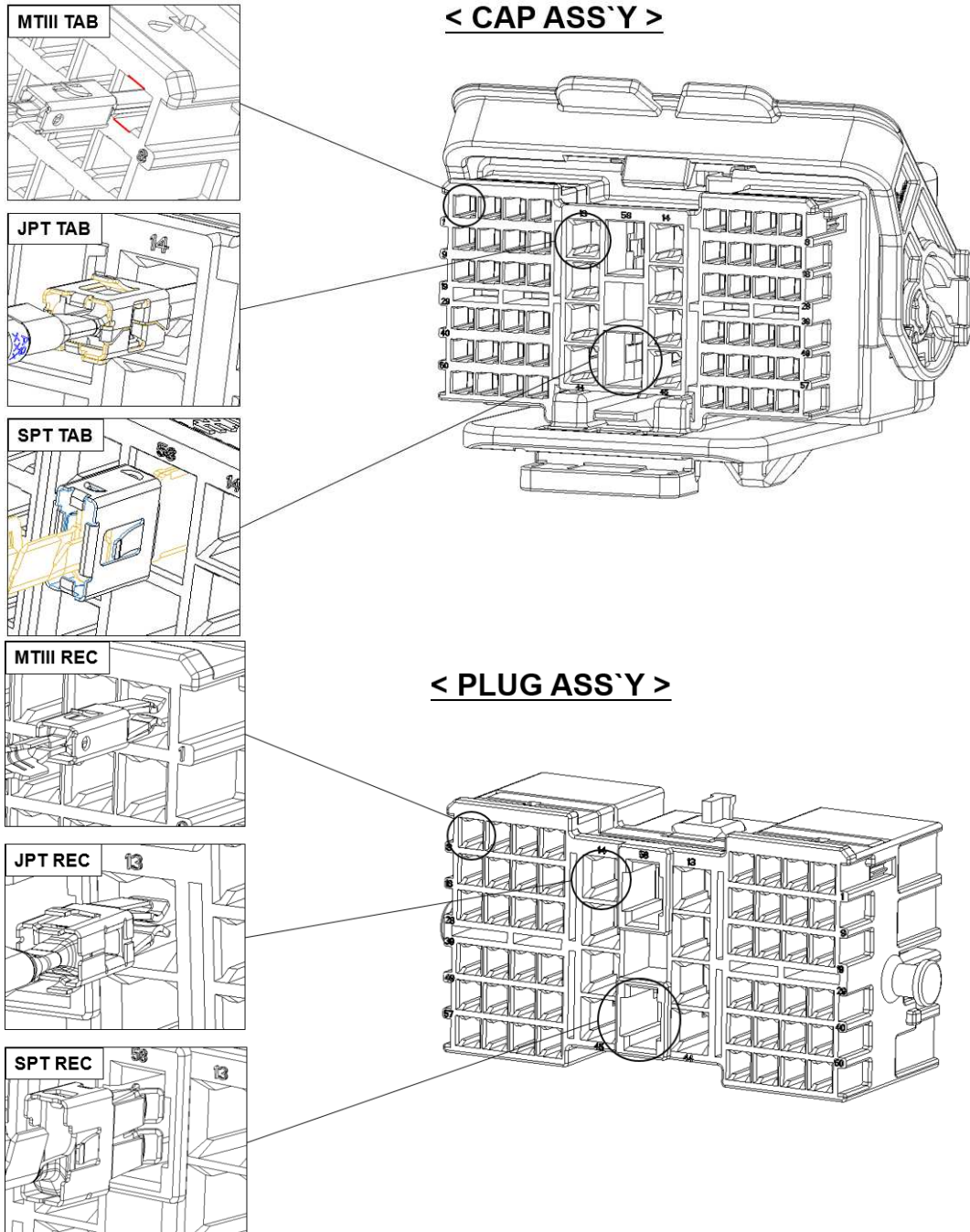


Fig. 11

**NOTE:** When TML insert to cavity, need to check stabilizer position.



## 5.1 TPA Final Lock (Secondary Lock)

- (1) After mounting of cavities with contacts the retainers must be pushed complete inwards. (See Fig.12)

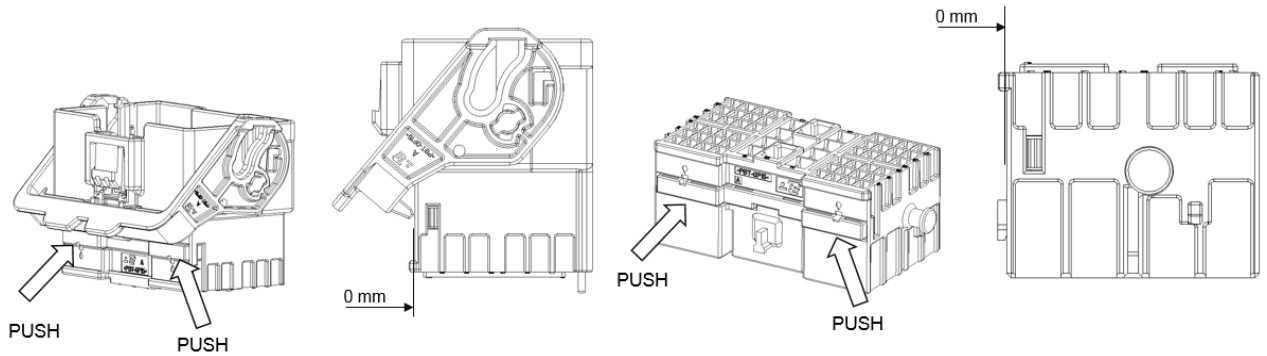


Fig. 12

**NOTE:** Review the TPA final-lock state.

- (2) If retainers can not be final lock status, check the TML which is not inserted completely. Do not operate by force.

## 5.3 TPA unlock

Retainer must be dis-locked with 1mm wide precision screwdriver. (No specific tool). (See Fig. 13)

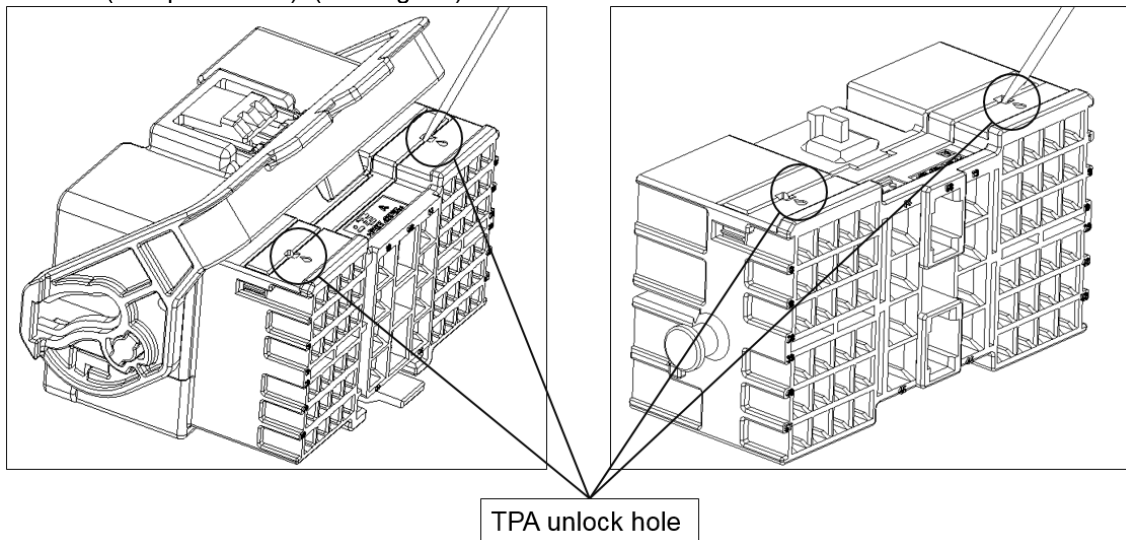


Fig. 13



## 5.4 How to remove terminal from connector

- (1) Check the retainer status. (Pre-Lock) If retainers is Final Lock status, it should be Pre-Lock status. (See Part.5.1.) The contact cannot be extracted in Final Lock status.
- (2) Insert rework tool to the end of rework hole then, extract the TML with pulling the crimped wire while pressing latch. (See Fig.14)

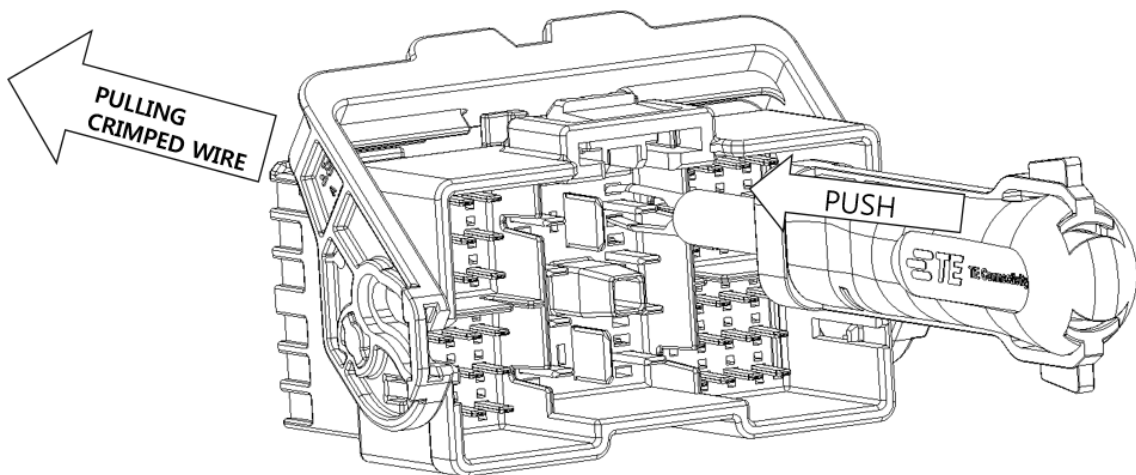


Fig. 14




Terminal	Extraction tool p/n	비고
.060 ( MTIII )	539960-1	 tool
.110 ( JPT )	1-1579007-6	 tool
.187 ( SPT )	1-1579007-6	 tool

Fig. 15

## 5.5 Wire Harness Control

### 5.5.1 Handling

Do not apply too much force or shock against connector or harness.

### 5.5.2 Wire tie up and taping

Wires are tied up at apart from 30mm more from the end of connector. The operation be conducted carefully so the too much force is app

### 5.5.3 Conductive Check

- (1) Use applicable mating connector or equivalent for conductivity checking Jig.
- (2) Check probe Pin must not be inserted inside of female TML

**NOTE:** TML must be replaced in case of the probe pin insertion.

### 5.5.4 Storage

Store the product dry and clean area. In addition, do not leave the product with exposed condition.

### 5.5.5 Shipping and Carrying

Use proper package which can prevent product from dust, rain and etc. And handle carefully.

## 6. CONNECTOR ASSEMBLY AND DISASSEMBLY OPERATION

### 6.1 Connector assembly

- (1) Checking TML latching condition, proper wire tie up position and TPA status (Final lock).  
If TPA is Pre-lock status, must be adjusted to final lock status. (See Part. 5.2)
- (2) Checking No contact has deformation, discolor, damage, rust and housing has no deformation, crack, breakage and discolor.

**NOTE:** In case of any trouble is found, replace it as new one.

## (3) Assembling Plug ass'y to Cap ass'y

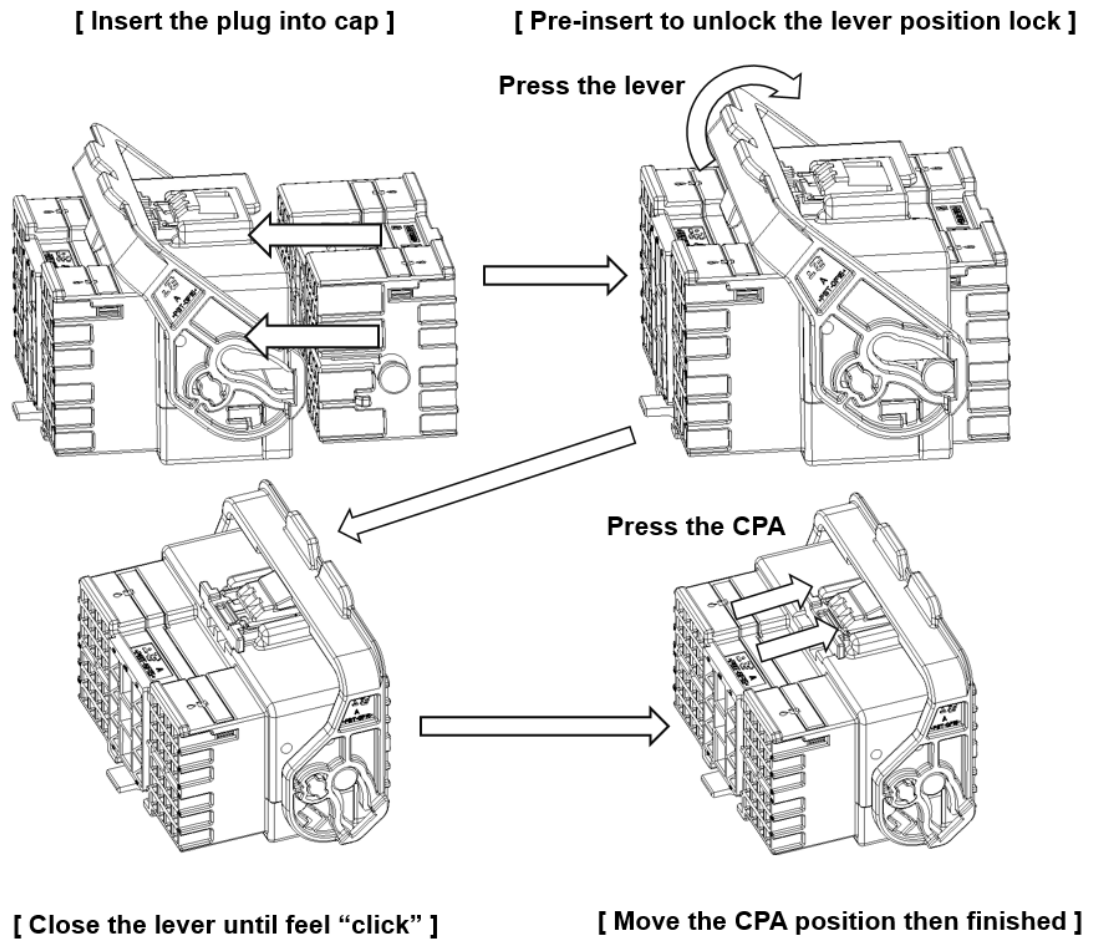


Fig.16

**NOTE:** If irregular phenomenon is occurred such as double action or product inserting non-smoothly while operating, do lever back to the initial state and then, mate again.

## 6.2 Connector disassembly

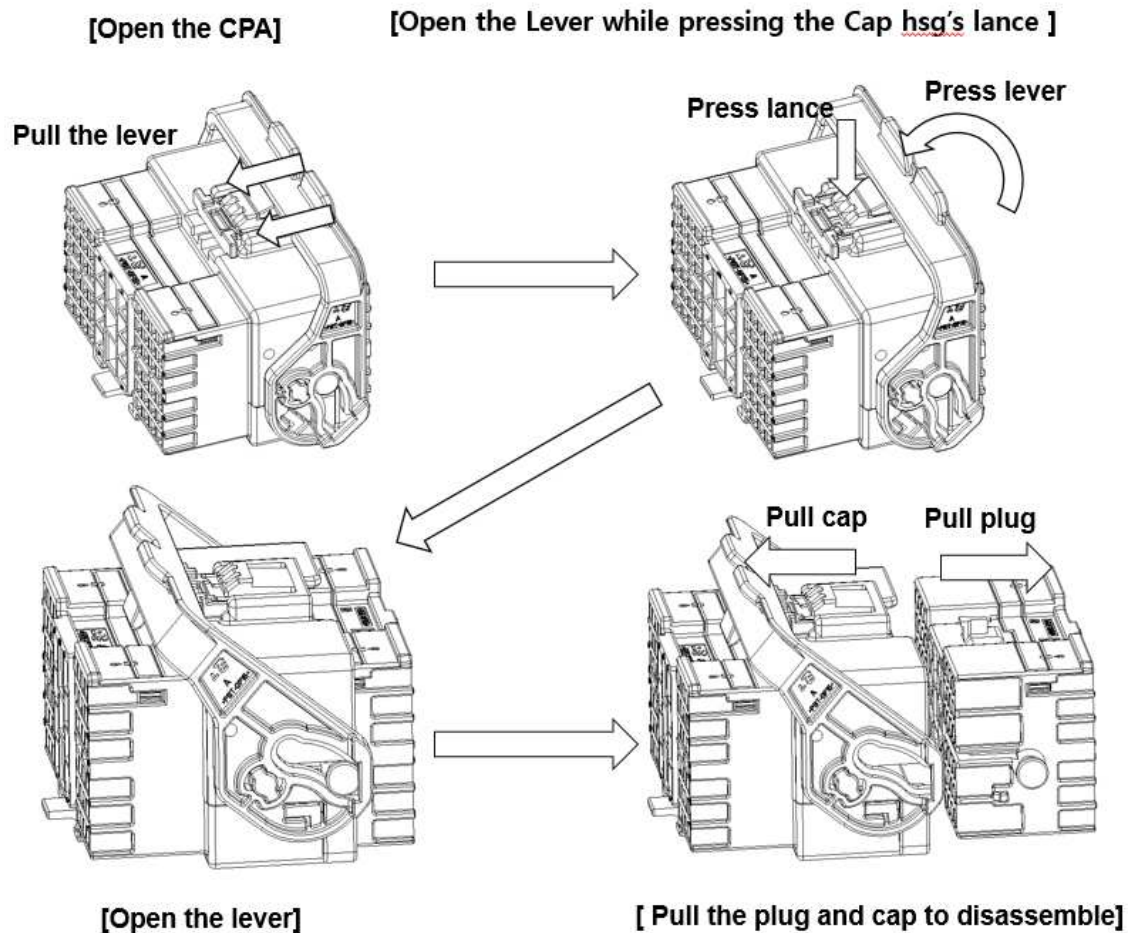


Fig.17

**7. SPECIFICATION APPROVAL**

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