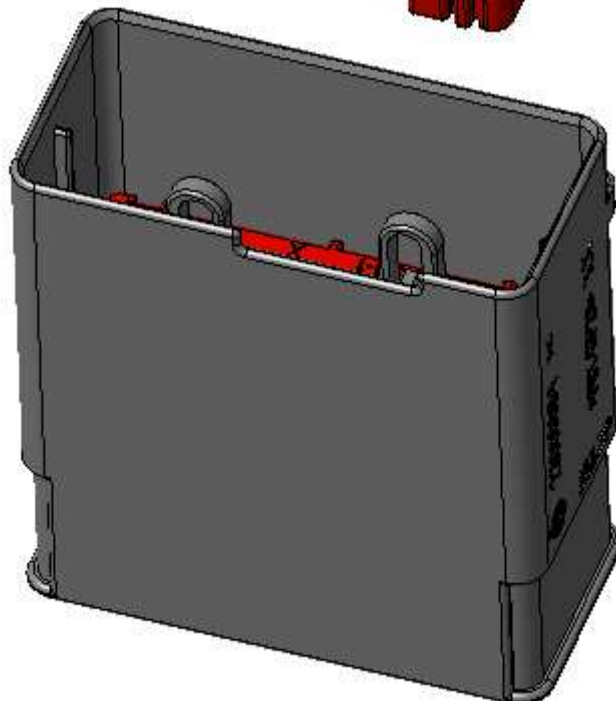
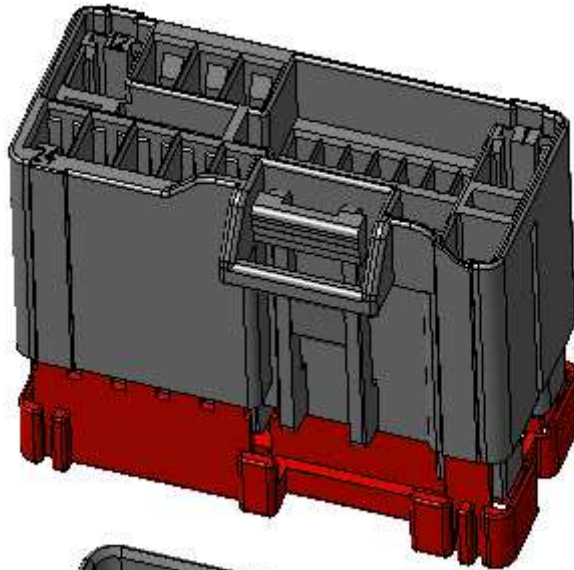


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**24 WAY INLINE CONNECTOR**

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**1 GENERAL**

**1.1 PURPOSE**

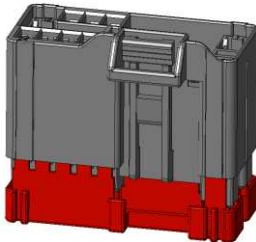
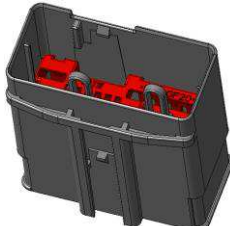
THIS SPECIFICATION DESCRIBES HOW TO HANDLE THE 24 WAY INLINE CONNECTORS AND THEIR COMPONENTS.

**1.2 CUSTOMER DRAWINGS / INTERFACE SPECIFICATION**

THIS APPLICATION SPECIFICATION IS BASED ON THE LATEST VALID CUSTOMER DRAWINGS.


- 2300010 FEMALE HOUSING ASSEMBLY, 24 WAY INLINE CONNECTOR
- 2300007 MALE HOUSING ASSEMBLY, 24 WAY INLINE CONNECTOR

**1.3 DELIVERY CONDITION OF THE CONNECTORS**

FEMALE HOUSING ASSEMBLY, 24 WAY INLINE CONNECTOR	PN 2300010-X	
MALE HOUSING ASSEMBLY, 24 WAY INLINE CONNECTOR	PN 2300007-X	

## 1.4 APPLICABLE COMPONENTS


### 1.4.1 FEMALE CONNECTOR

APPLICABLE COMPONENTS BOX					
DESCRIPTION	PLATING /COLOUR	SUPPLIER	SUPPLIER PART NO. (WIRE SIZE) 	TE APPL. SPEC. TE PROD. SPEC.	APPL. CONTACT CAVITY NUMBER
0.64 GENERATION Y UNSEALED FEMALE TERMINAL	TIN	TE	2035334-1 (0.35-0.5mm <sup>2</sup> )	114-13183 -	2-8/14-19
0.64 GENERATION Y UNSEALED FEMALE TERMINAL	TIN	TE	2035334-3 (0.35-0.5mm <sup>2</sup> )	114-13183 -	2-8/14-19
0.64 GENERATION Y UNSEALED FEMALE TERMINAL	TIN	TE	2035334-6 (0.35mm <sup>2</sup> )	114-13183 -	2-8/14-19
0.64 GENERATION Y UNSEALED FEMALE TERMINAL	TIN	TE	2035334-8 (0.35mm <sup>2</sup> )	114-13183 -	2-8/14-19
1.5 UNSEALED FEMALE TERMINAL	TIN	YAZAKI	7116-6315-02 (0.35-0.5mm <sup>2</sup> )	-	9-11/20-24
1.5 UNSEALED FEMALE TERMINAL	TIN	YAZAKI	7116-6316-02 (0.75-1.0mm <sup>2</sup> )	-	9-11/20-24
1.5 UNSEALED FEMALE TERMINAL	TIN	YAZAKI	7116-6317-02 (1.5mm <sup>2</sup> )	-	9-11/20-24
2.8 UNSEALED FEMALE TERMINAL	TIN	YAZAKI	7116-4270-02 (0.35-0.5mm <sup>2</sup> )	-	1/12/13
2.8 UNSEALED FEMALE TERMINAL	TIN	YAZAKI	7116-4271-02 (0.75-1.0mm <sup>2</sup> )	-	1/12/13
2.8 UNSEALED FEMALE TERMINAL	TIN	YAZAKI	7116-4272-02 (1.5-2.5mm <sup>2</sup> )	-	1/12/13
2.8 UNSEALED FEMALE TERMINAL	TIN	TE	1326030-1/-5 (0.35mm <sup>2</sup> )	114-13013 -	1/12/13
2.8 UNSEALED FEMALE TERMINAL	TIN	TE	1326030-2/-6 (0.5-1.0mm <sup>2</sup> )	114-13013 -	1/12/13
2.8 UNSEALED FEMALE TERMINAL	TIN	TE	1326030-3/-7 (1.5-2.5mm <sup>2</sup> )	114-13013 -	1/12/13
2.8 UNSEALED FEMALE TERMINAL	TIN	TE	1326030-4/-8 (4.0mm <sup>2</sup> )	114-13013 -	1/12/13



ONLY FOR INFORMATION. CHECK LATEST REVISION OF THE SUPPLIER SPECIFICATION FOR TERMINAL PROPERTIES

### 1.4.2 MALE CONNECTOR

APPLICABLE COMPONENTS BOX					
DESCRIPTION	PLATING /COLOUR	SUPPLIER	SUPPLIER PART NO. (WIRE SIZE) 	TE APPL. SPEC. TE PROD. SPEC.	APPL. CONTACT CAVITY NUMBER
0.64 GENERATION Y UNSEALED MALE TERMINAL	TIN	TE	1924968-1 (0.35-0.5mm <sup>2</sup> )	114-13183 -	2-8/14-19
0.64 GENERATION Y UNSEALED MALE TERMINAL	TIN	TE	1924968-3 (0.35-0.5mm <sup>2</sup> )	114-13183 -	2-8/14-19
0.64 GENERATION Y UNSEALED MALE TERMINAL	TIN	TE	1924968-6 (0.35mm <sup>2</sup> )	114-13183 -	2-8/14-19
0.64 GENERATION Y UNSEALED MALE TERMINAL	TIN	TE	1924968-8 (0.35mm <sup>2</sup> )	114-13183 -	2-8/14-19
1.5 UNSEALED MALE TERMINAL	TIN	YAZAKI	7114-4100-02 (0.35-0.5mm <sup>2</sup> )	-	9-11/20-24
1.5 UNSEALED MALE TERMINAL	TIN	YAZAKI	7114-4101-02 (0.75-1.0mm <sup>2</sup> )	-	9-11/20-24
1.5 UNSEALED MALE TERMINAL	GOLD	YAZAKI	7114-4100-08 (0.35-0.5mm <sup>2</sup> )	-	9-11/20-24
1.5 UNSEALED MALE TERMINAL	GOLD	YAZAKI	7114-4101-08 (0.75-1.0mm <sup>2</sup> )	-	9-11/20-24
1.5 UNSEALED MALE TERMINAL	TIN	YAZAKI	7114-4104-02 (1.5mm <sup>2</sup> )	-	9-11/20-24
2.8 UNSEALED MALE TERMINAL	TIN	YAZAKI	7114-4110-02 (0.35-0.5mm <sup>2</sup> )	-	1/12/13
2.8 UNSEALED MALE TERMINAL	TIN	YAZAKI	7114-4111-02 (0.75-1.0mm <sup>2</sup> )	-	1/12/13
2.8 UNSEALED MALE TERMINAL	TIN	YAZAKI	7114-4112-02 (1.5-2.5mm <sup>2</sup> )	-	1/12/13
2.8 UNSEALED MALE TERMINAL	TIN	TE	1326029-1/-5 (0.35mm <sup>2</sup> )	114-13013 -	1/12/13
2.8 UNSEALED MALE TERMINAL	TIN	TE	1326029-2/-6 (0.5-1.0mm <sup>2</sup> )	114-13013 -	1/12/13
2.8 UNSEALED MALE TERMINAL	TIN	TE	1326029-3/-7 (1.5-2.5mm <sup>2</sup> )	114-13013 -	1/12/13
2.8 UNSEALED MALE TERMINAL	TIN	TE	1326029-4/-8 (4.0mm <sup>2</sup> )	114-13013 -	1/12/13



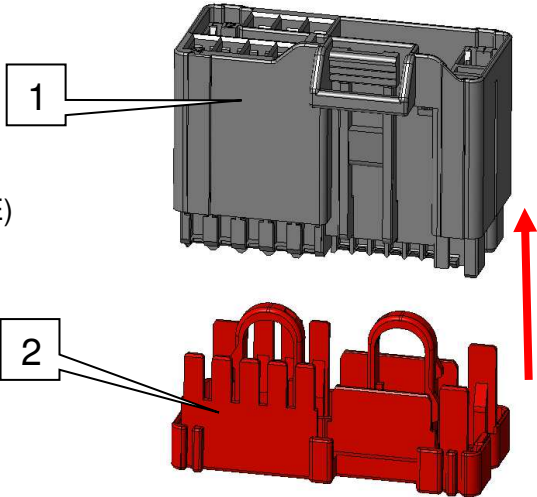
ONLY FOR INFORMATION. CHECK LATEST REVISION OF THE SUPPLIER SPECIFICATION FOR TERMINAL PROPERTIES

**2 CONNECTOR OPERATING INSTRUCTIONS**

**2.1 ASSEMBLY OF THE CONNECTOR**

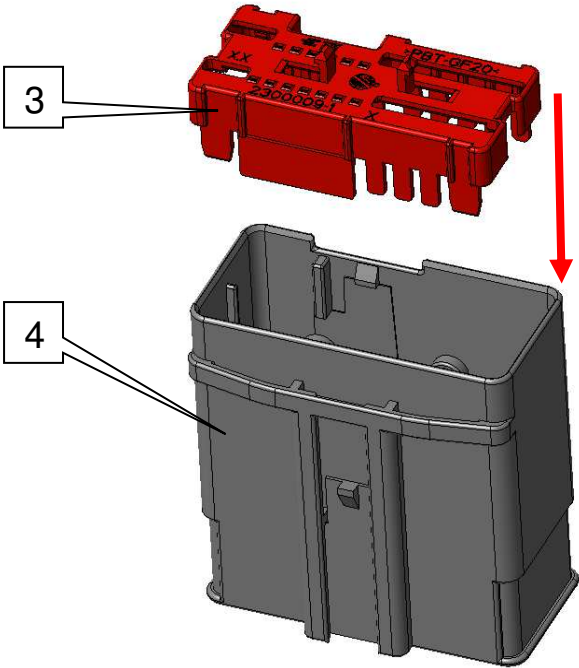
**2.1.1 FEMALE CONNECTOR**

- 1 FEMALE HOUSING
- 2 FEMALE TPA  
(TERMINAL POSITION ASSURANCE)



**2.1.2 MALE CONNECTOR**

- 3 MALE TPA
- 4 MALE HOUSING



## 2.2 TERMINAL INSERTION / REMOVAL INSTRUCTIONS

### MALE TERMINALS:

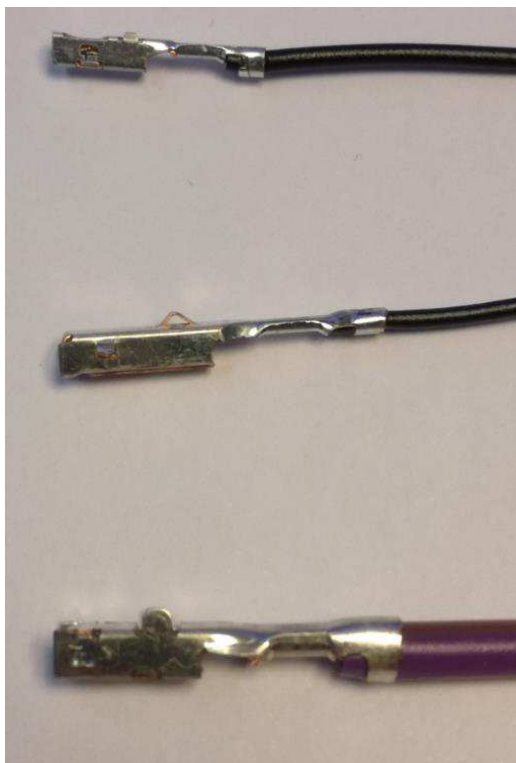


*GENERATION Y ( 0.64) MALE TERMINAL*

*1.5 UNSEALED MALE TERMINAL (YAZAKI)*

*2.8 UNSEALED MALE TERMINAL (YAZAKI)*

### FEMALE TERMINALS:



*GENERATION Y ( 0.64) FEMALE TERMINAL*

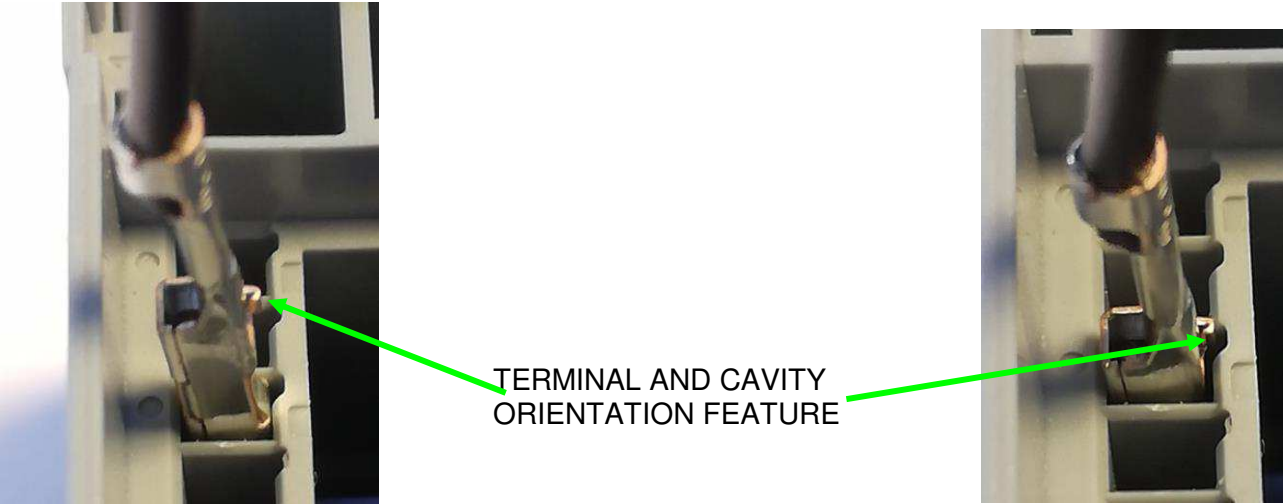
*1.5 UNSEALED FEMALE TERMINAL (YAZAKI)*

*2.8 UNSEALED FEMALE TERMINAL (YAZAKI)*

2.2.1 FEMALE TERMINAL INSERTION

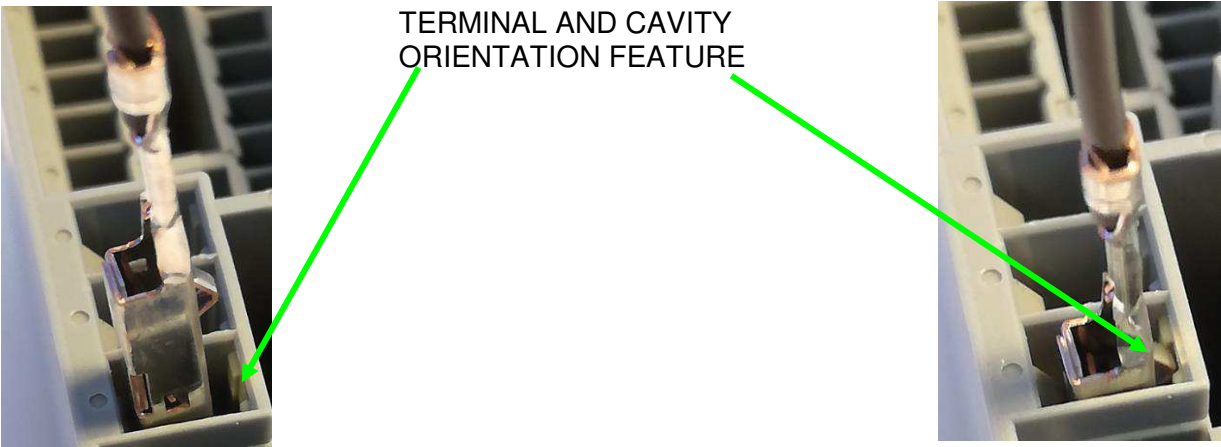
GENERATION Y ( 0.64) FEMALE TERMINAL

INSERT TERMINALS STRAIGHT IN CAVITIES UNTIL "CLICK".



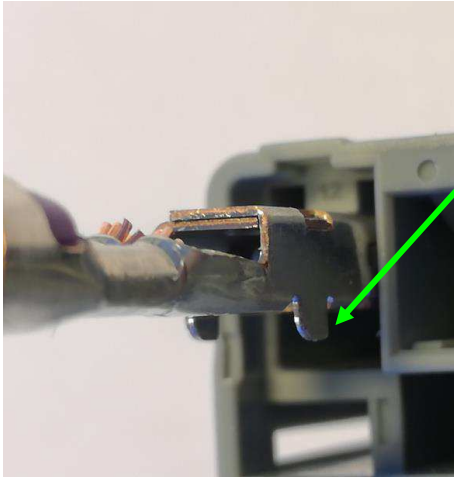
1.5 UNSEALED FEMALE TERMINAL (YAZAKI)

INSERT TERMINALS STRAIGHT IN CAVITIES UNTIL "CLICK".

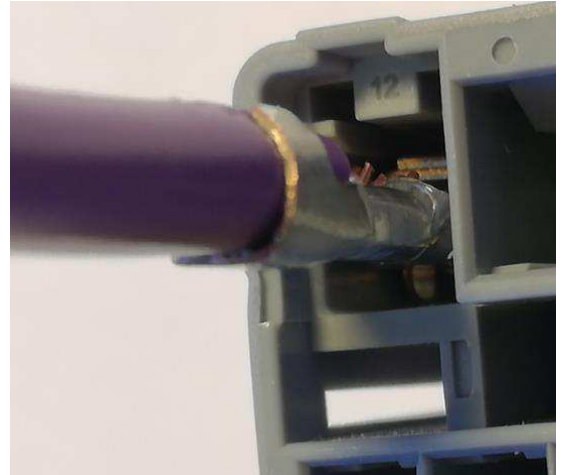


2.8 UNSEALED FEMALE TERMINAL (YAZAKI)

INSERT TERMINALS STRAIGHT IN CAVITIES UNTIL "CLICK".



TERMINAL AND CAVITY  
ORIENTATION FEATURE



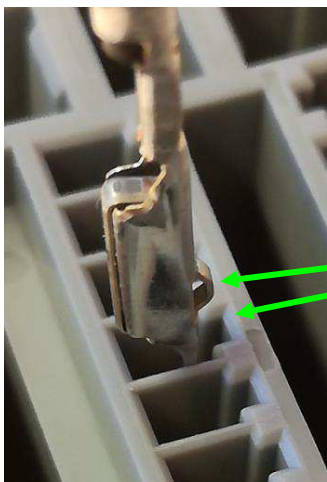
**NOTE:**

AFTER TERMINAL INSERTION OPERATION THE SPACER (TPA) MUST BE MOVED FROM PRE-LOCK POSITION TO FULLY ENGAGED POSITION.

2.2.2 MALE TERMINAL INSERTION

GENERATION Y (0.64) MALE TERMINAL

INSERT TERMINALS STRAIGHT IN CAVITIES UNTIL "CLICK".

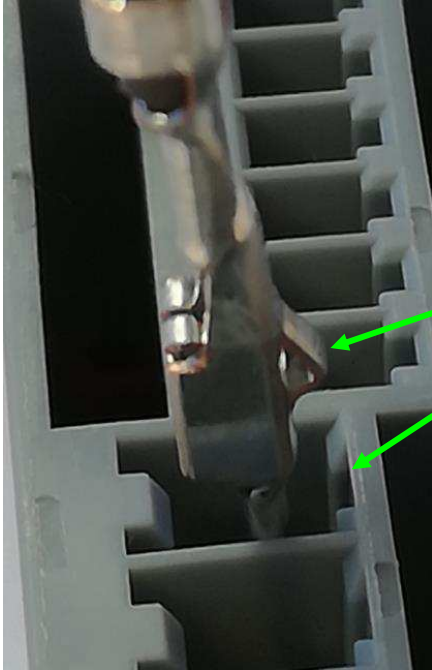


TERMINAL AND CAVITY  
ORIENTATION FEATURE



**1.5 UNSEALED FEMALE TERMINAL (YAZAKI)**

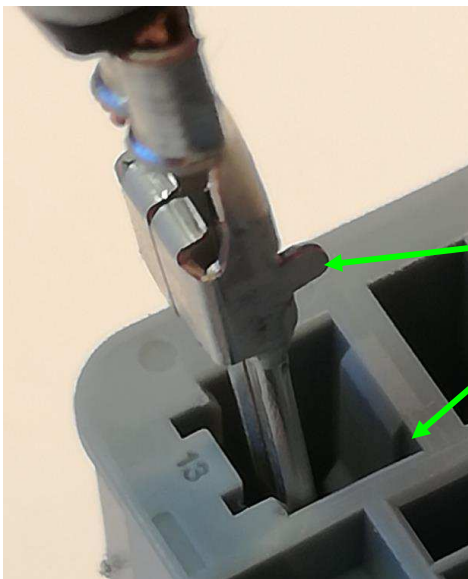
INSERT TERMINALS STRAIGHT IN CAVITIES UNTIL "CLICK".



TERMINAL AND CAVITY  
ORIENTATION FEATURE

**2.8 UNSEALED FEMALE TERMINAL (YAZAKI)**

INSERT TERMINALS STRAIGHT IN CAVITIES UNTIL "CLICK".

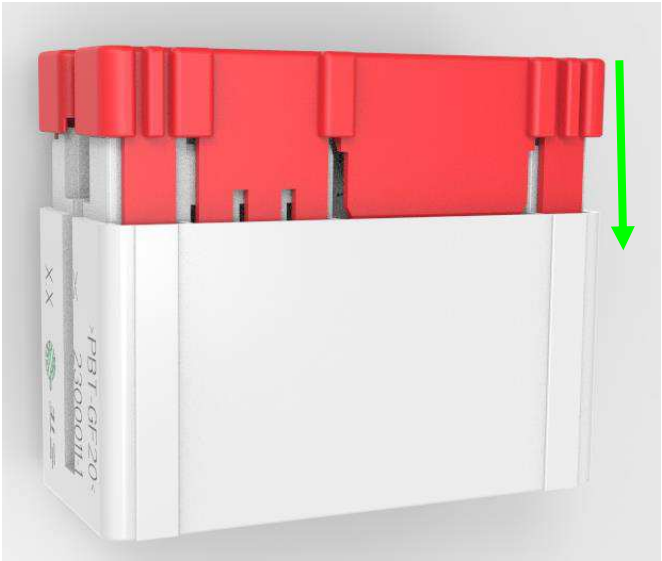


TERMINAL AND CAVITY  
ORIENTATION FEATURE

**NOTE:**

AFTER TERMINAL INSERTION OPERATION THE SPACER (TPA) MUST BE MOVED FROM PRE-LOCK POSITION TO FULLY ENGAGED POSITION

2.2.3 FEMALE CONNECTOR TPA PRE-LOCK POSITION



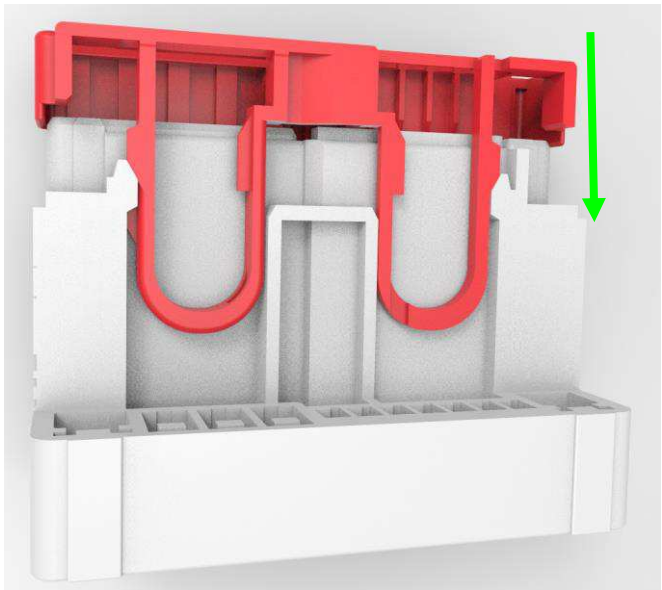
“Pre-Lock-Position”



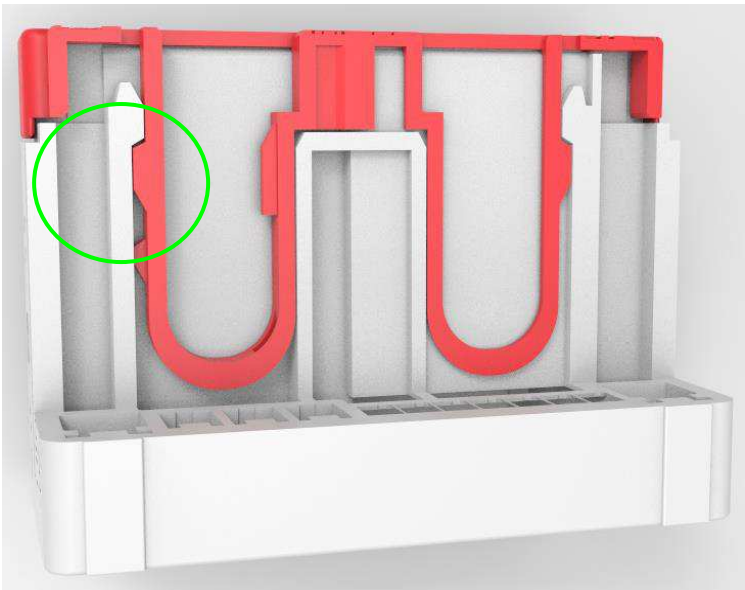
“End-Position”

**NOTE:** ASSEMBLY OF THE CONTACTS HAS TO BE CARRIED OUT IN THE PRE-LOCK-POSITION OF THE TPA. AFTER COMPLETION OF THE CONTACT ASSEMBLY, THE TPA HAS TO BE PUSHED DOWN UNTIL FINAL LOCKING.

Sectional view:

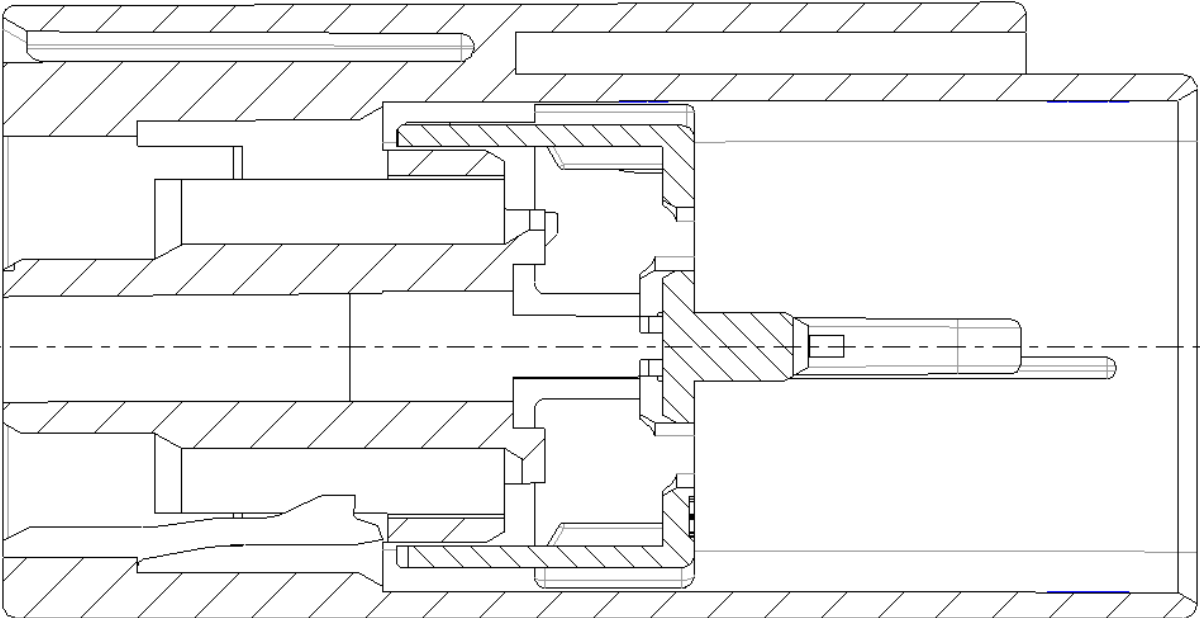


“Pre-Lock-Position”



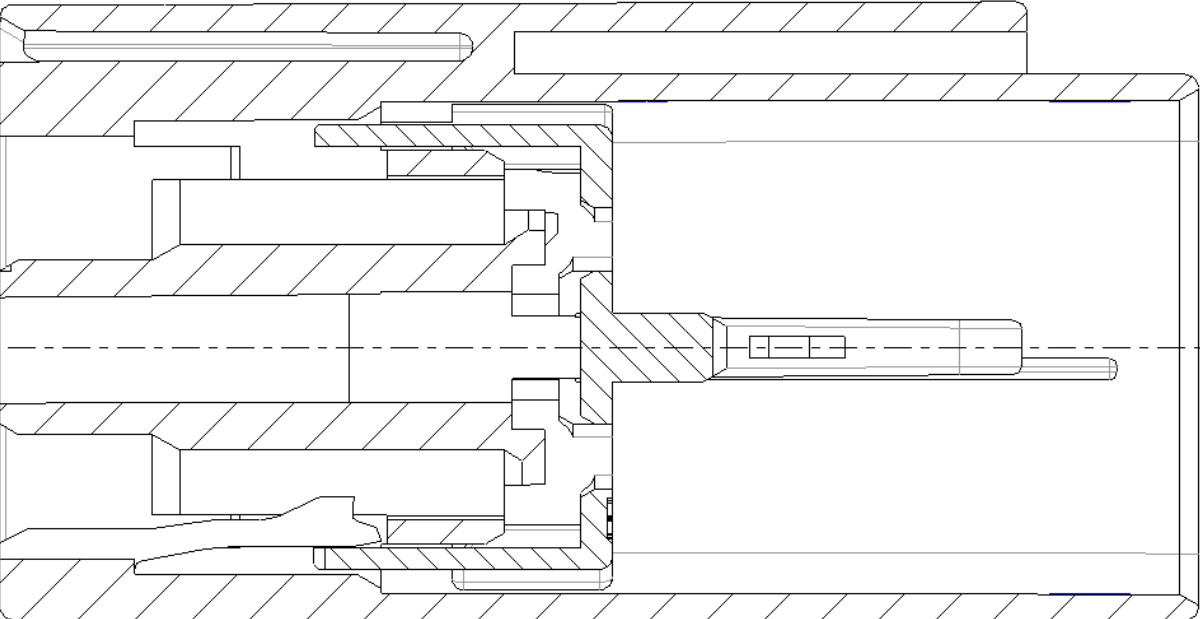
“End-Position”

2.2.4 MALE CONNECTOR TPA "SET" POSITION



*"Pre-Lock-Position"*

**NOTE:** AFTER COMPLETION OF THE CONTACT-ASSEMBLY, TPA HAS TO BE MOVED APPROXIMATELY 3 MM FROM "PRE-LOCK-POSITION" TO REACH THE "SET POSITION".

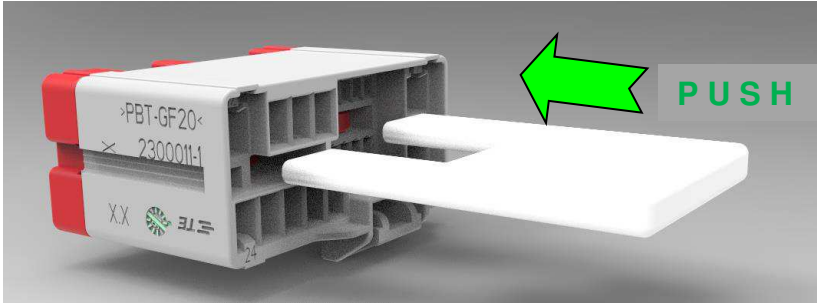
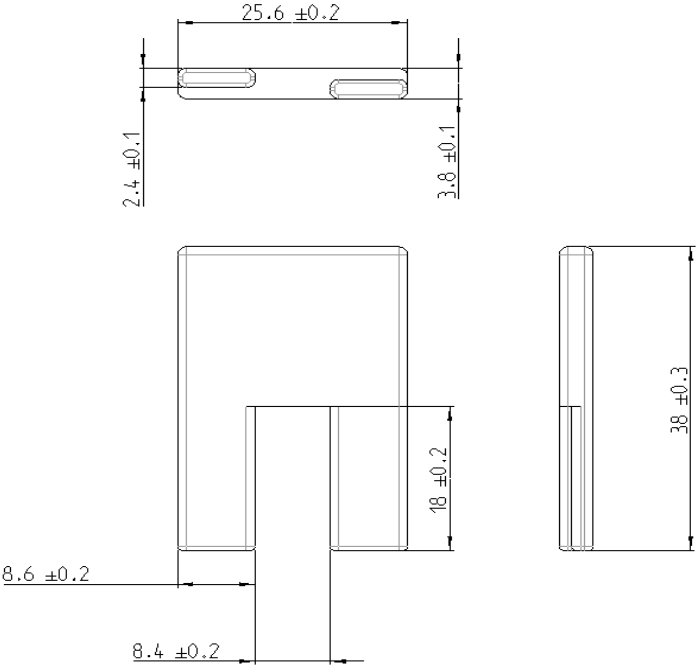
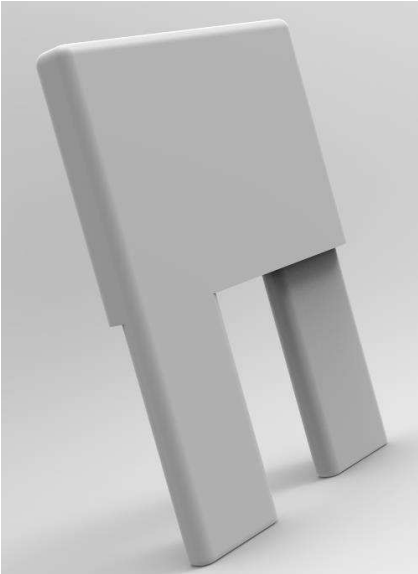


*"Set-Position"*

2.2.5 SPACER (TPA) REMOVAL

2.2.5.1 REMOVAL FEMALE CONNECTOR SPACER (TPA)

**NOTE:** USE THE EXTRACTION TOOL - SIMILAR TO THE ONE SHOWN BELOW - TO REMOVE THE SPACER (TPA).



### 2.2.5.2 REMOVAL MALE CONNECTOR SPACER (TPA)

USE A HOOK-LIKE TOOL (E.G. 726531-1) TO REMOVE THE MALE SPACER (TPA)



#### STEP 1

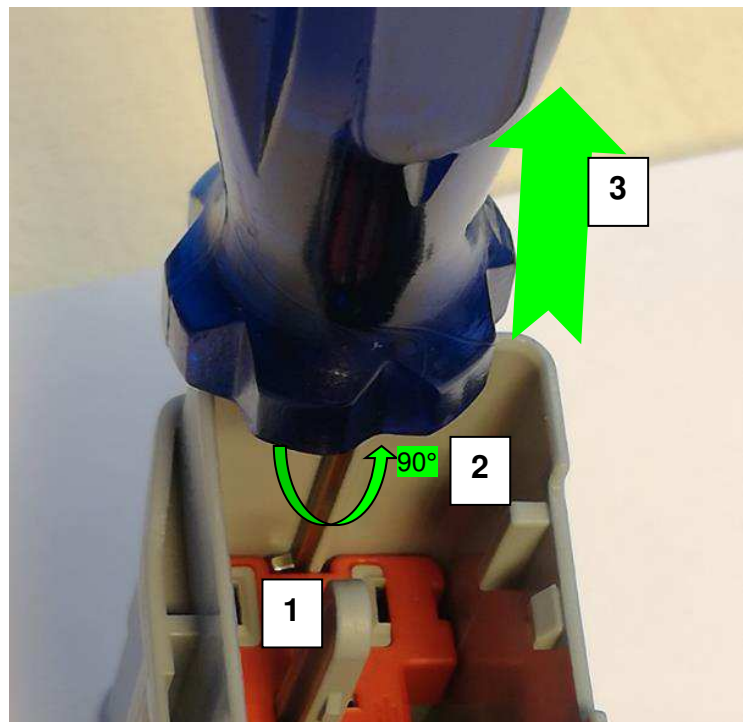
INSERT THE TOOL INTO THE SPACER (TPA) HOLE WITH THE HOOK TURNED AS SHOWN

#### STEP 2

TURN THE HOOK UNDER THE SPACER (TPA) AND CAREFULLY REMOVE THE TPA FOR A LITTLE BIT .

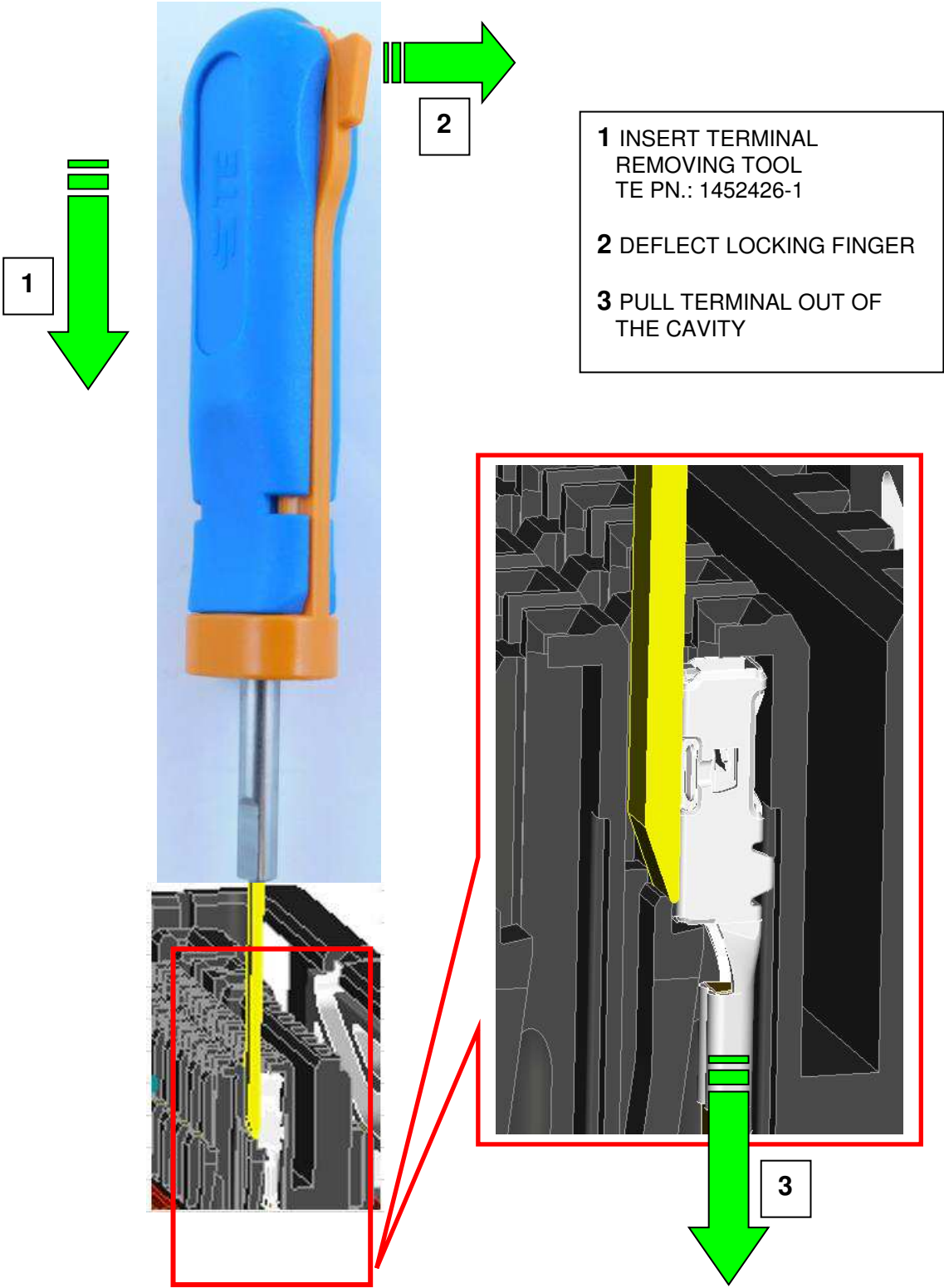
#### STEP 3

USE THE EXTRACTION-TOOL ALTERNATELY ON BOTH SIDES OF THE TPA IN THE SAME WAY, TO ENSURE A CAREFUL EXTRACTION OF THE TPA



**2.2.6 TERMINAL EXTRACTION - APPLYS TO  
0.64 GEN-Y; 1.5 YES; 2.8 YES AND 2.8 TE FEMALE AND MALE TERMINAL**

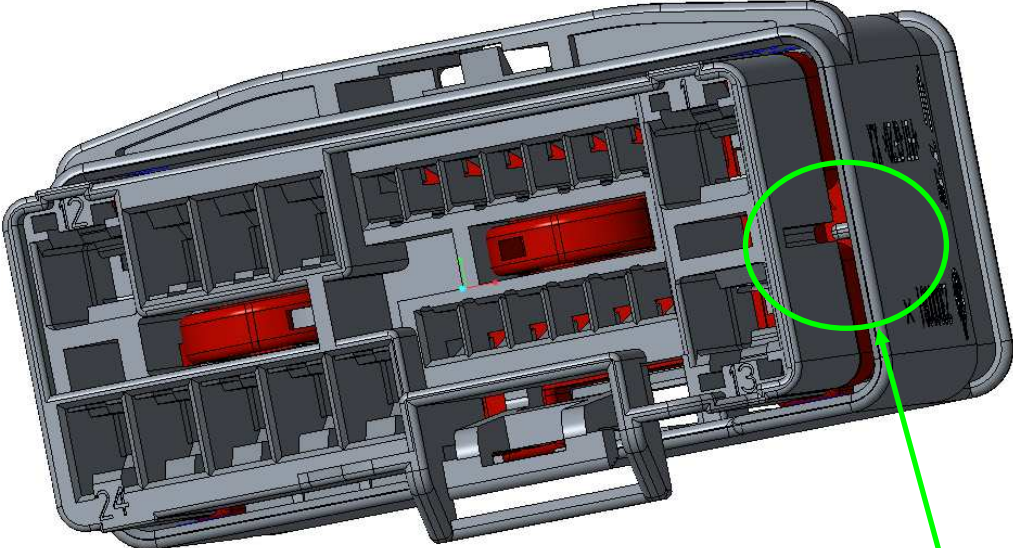
**NOTE:** TPA (SPACER) MUST BE FULLY REMOVED BEFORE TERMINAL REMOVAL OPERATIONS!



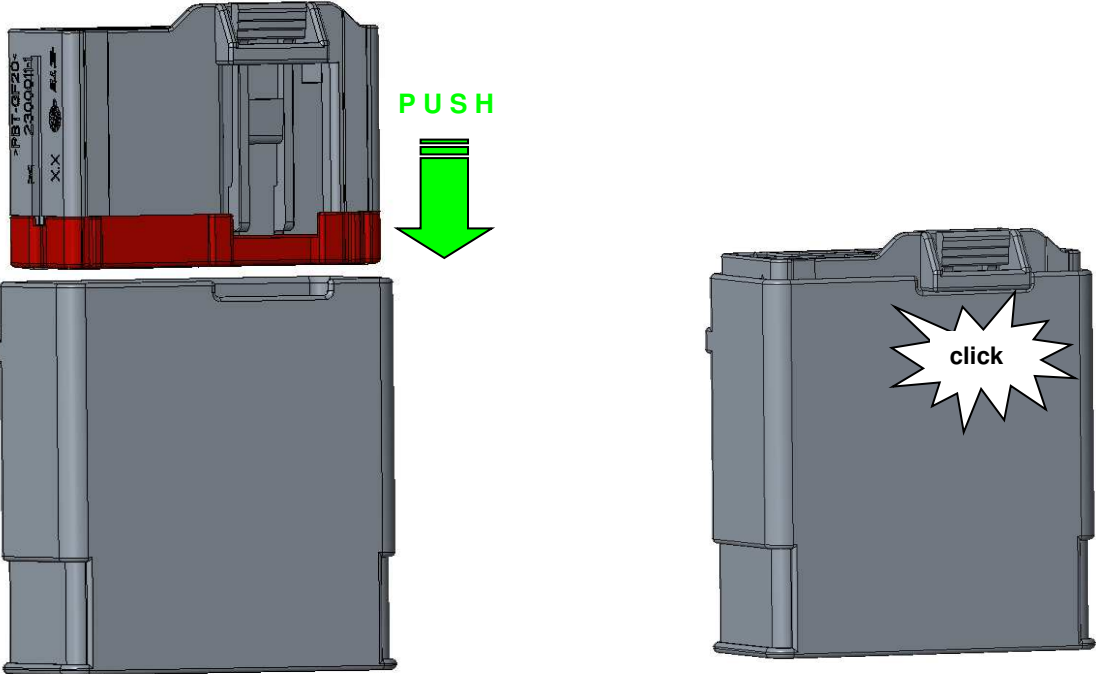


3 CONNECTOR MATING / UNMATING OPERATIONS

3.1 CONNECTOR TO CONNECTOR MATING



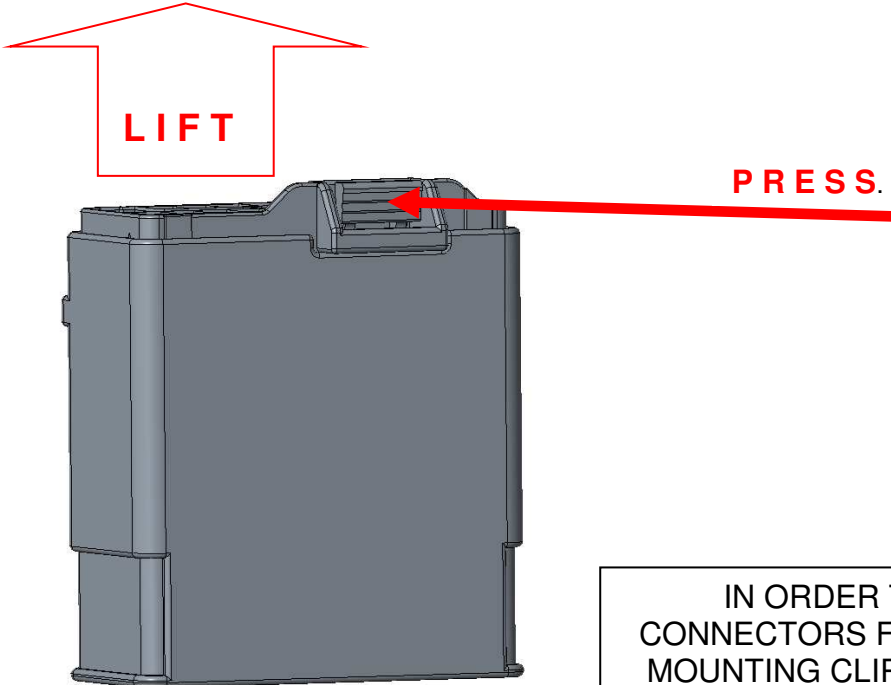
Pay attention to the coding during the Assembly-Process



**NOTE:**

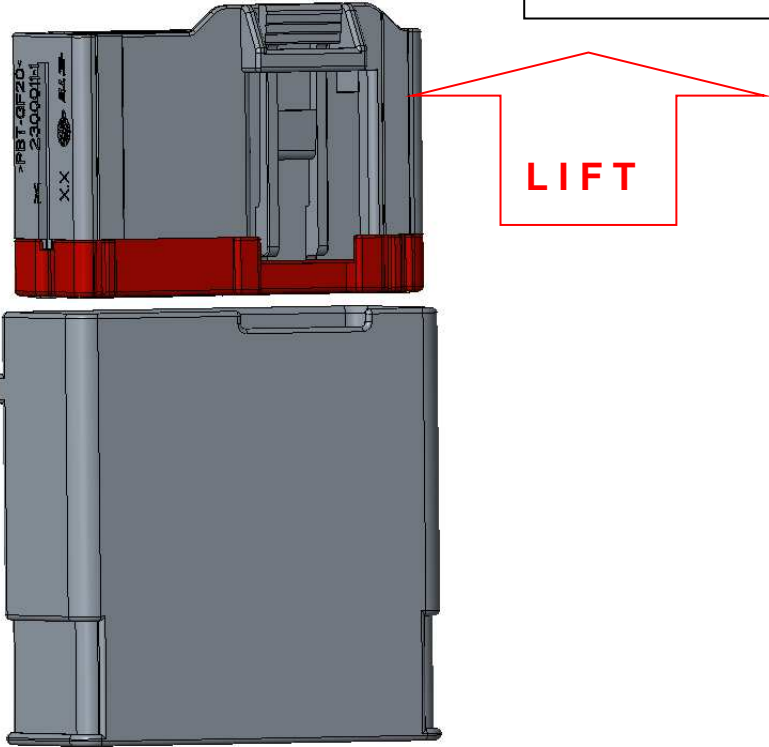
During assembly of the two connectors, the TPA of the Male Connector is latched from the SET position to the end position

3.2 UNMATING FEMALE CONNECTOR FROM MALE CONNECTOR



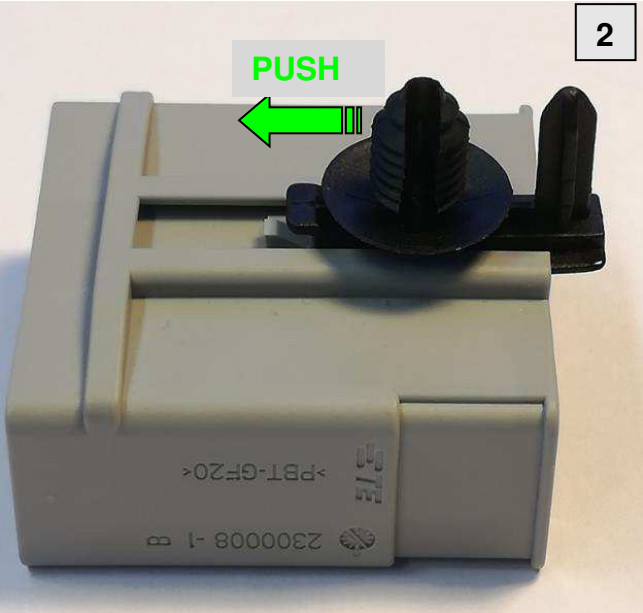
IN ORDER TO SEPARATE THE CONNECTORS FROM EACH OTHER, THE MOUNTING CLIP HAS TO BE PRESSED -

AT THE SAME TIME THE FEMALE CONNECTOR CAN BE LIFTED OUT OF THE COUNTERPIECE.





4 MOUNTING OF THE FASTENER-COMPONENT TO THE MALE HOUSING



- 1 ORIENT THE FASTENER-COMPONENT AS SHOWN IN THE PICTURES
- 2 PUT THE FASTENER INTO THE SLIDER OF THE CONNECTOR
- 3 PUSH THE FASTENER UNTIL IT "CLICKS"

Revision	Description	Originator	Approver	Date
A	Initial Release	M. Fiebiger	H. Ripper	2017-03-07
B	Tool TE PN. 1452426-1 added	B. Finger	H. Ripper	2018-06-28