

1. INTRODUCTION

Generation Y unsealed connectors (reference part number 2035360-2) accept 0.64-mm Generation Y contacts and mate with male connectors. This instruction sheet covers contact insertion and connector mating (assembly procedure) and contact extraction and connector unmating (disassembly procedure).

2. DESCRIPTION

The connector consists of a housing with contact cavities, terminal position assurance (TPA), and is available with or without a connector position assurance (CPA). The TPA ensures all contacts are fully seated, and the optional CPA prevents the mated connectors from inadvertently separating.

The following illustrations show a 4-position connector with the CPA. The same procedure applies all other-position connectors and connectors without the CPA.

3. ASSEMBLY PROCEDURE

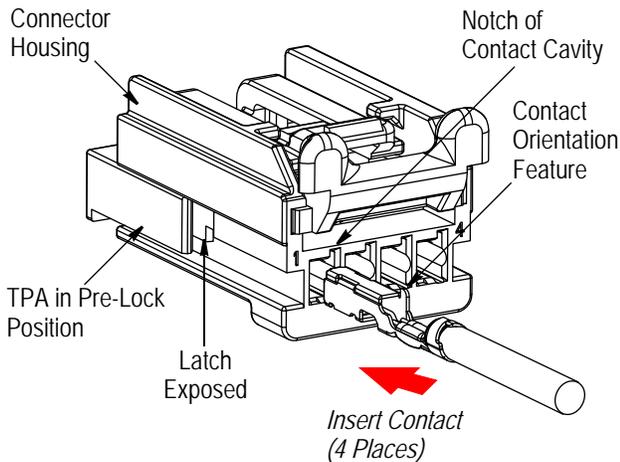
3.1. Contact Insertion



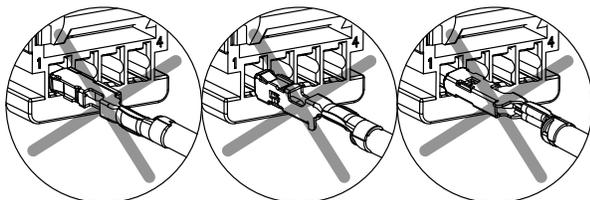
These instructions assume that the contacts are properly crimped. Refer to Application Specification 114-13183 for application requirements for the contacts.

- 1 Verify that the TPA is in the pre-lock position (latch is exposed on both sides of housing). The TPA must be in the pre-lock position before inserting any contacts. If it is not, refer to Paragraph 4.2., Step 1a.

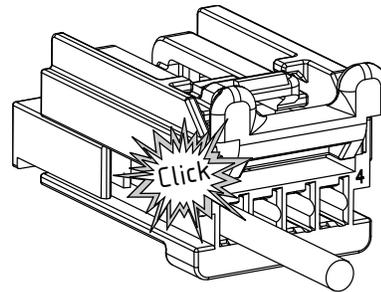
Align the contact with the applicable contact cavity. Make sure that the orientation feature faces the notch of the contact cavity.



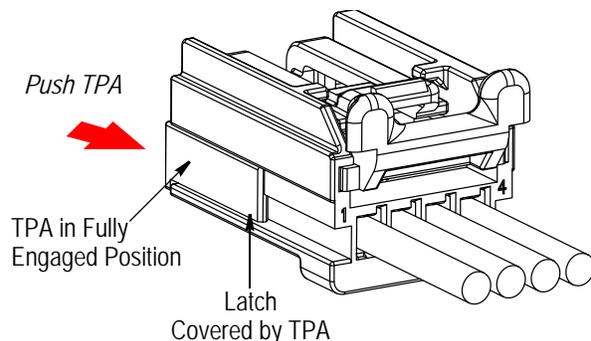
Incorrect Contact Orientation



- 2 Insert the contact until there is an audible or tactile "click". Pull slightly on the wire to ensure full seating. If there is resistance prior to full seating, verify that the TPA is in the pre-lock position.



- 3 After all of the desired contacts are inserted, push the TPA to the fully engaged position (latch is covered by TPA on both sides of housing). If there is a resistance to fully engaging the TPA, this indicates that all of the contacts are not fully inserted.



3.2. Connector Mating

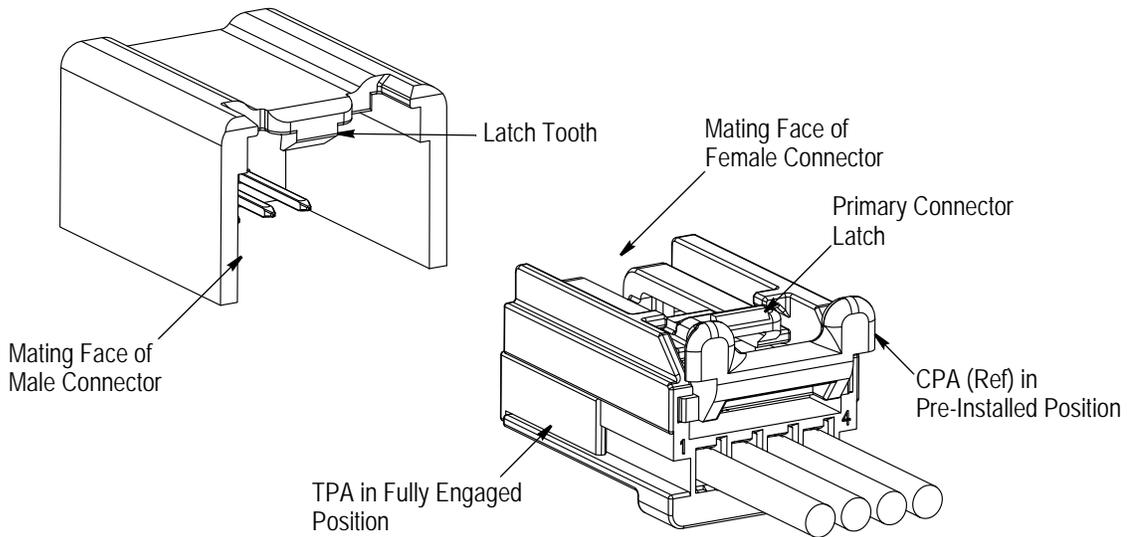


The connector TPA must be in the fully engaged position (latch is covered by TPA on both sides of housing) prior to connector mating.

1

Align the mating face of the connectors.

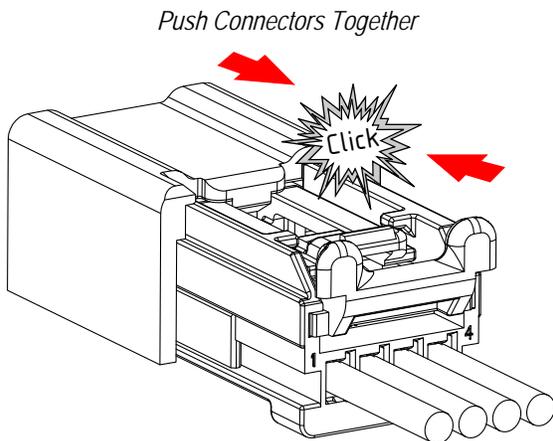
Note: Illustration shows the connector with the CPA. This step also applies to the connector without the CPA.



2

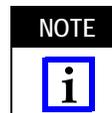
Push the connectors together until the primary connector latch of the female connector engages the latch tooth of the male connector. There will be an audible “click.” PUSH ONLY by grasping the housing base or sides.

Note: Illustration shows the connector with the CPA. This step also applies to the connector without the CPA.

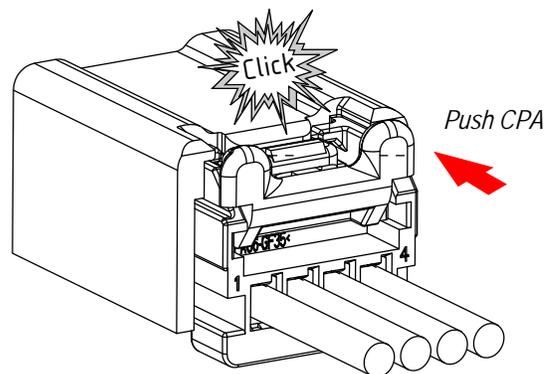


3

For the connector supplied with the CPA, push the CPA toward the male connector until there is an audible “click.” DO NOT attempt to push the CPA unless the connectors are fully mated.



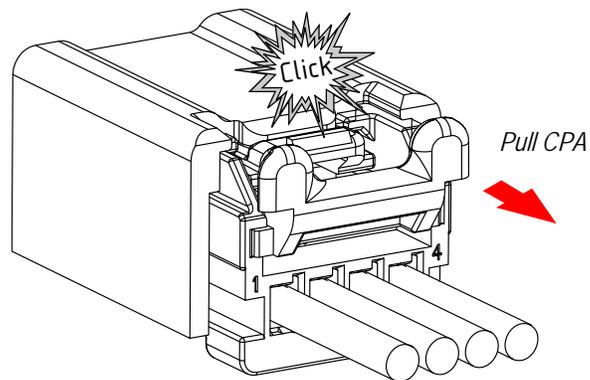
The CPA cannot move until the connectors are fully mated (female connector primary connector latch and male latch tooth are engaged).



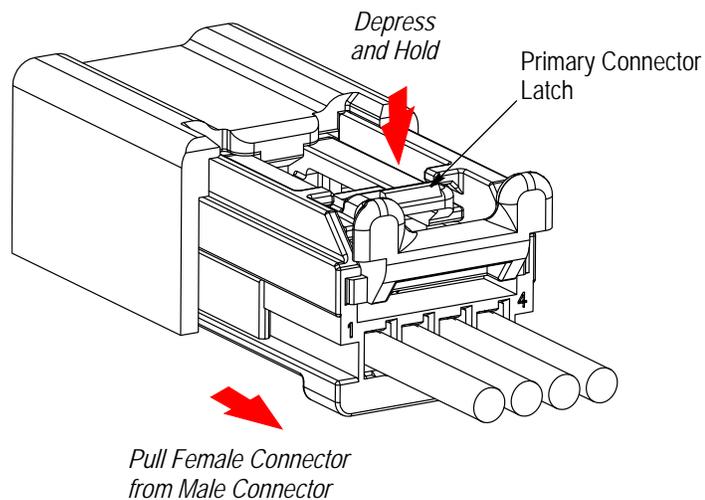
4. DISASSEMBLY PROCEDURE

4.1. Connector Unmating

- 1 For the connector supplied with the CPA, lightly pull the CPA until there is an audible “click.”
For the connector without the CPA, skip to Step 2.



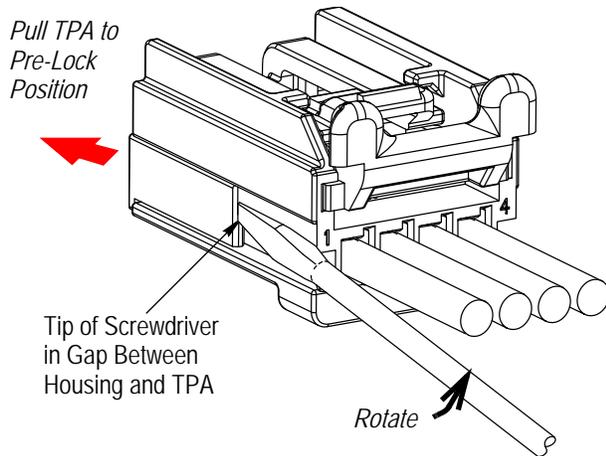
- 2 Depress the primary connector latch, then holding the primary connector latch in place, grip the housing of the female connector, and pull the female connector away from the male connector.
Note: Illustration shows the connector with the CPA. This step also applies to the connector without the CPA.



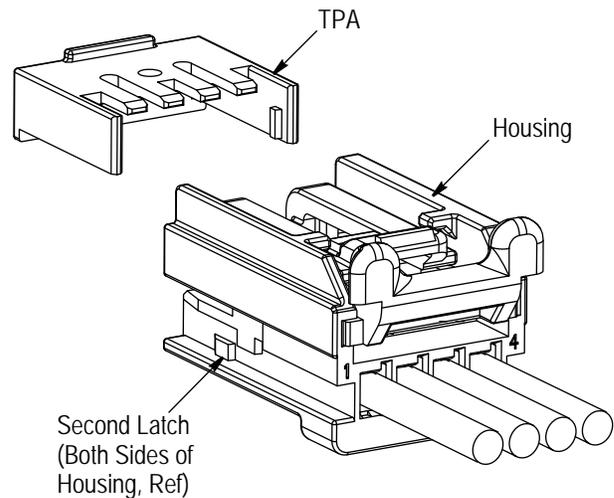
4.2. Contact Extraction

1 The connector TPA must be moved to the pre-lock position, then removed from the housing before any contacts can be extracted.

a Move TPA to Pre-Lock Position
 On one side of the housing, insert the tip of a small screwdriver into the gap between the housing and a corner of the TPA, slightly rotate the screwdriver to pull the corner away from the housing until the TPA is disengaged from the latch.
 Repeat this for the other side of the housing, then pull the TPA until the latch is exposed on both sides of the housing as shown in Step 1 of Paragraph 3.1 (TPA in pre-lock position).



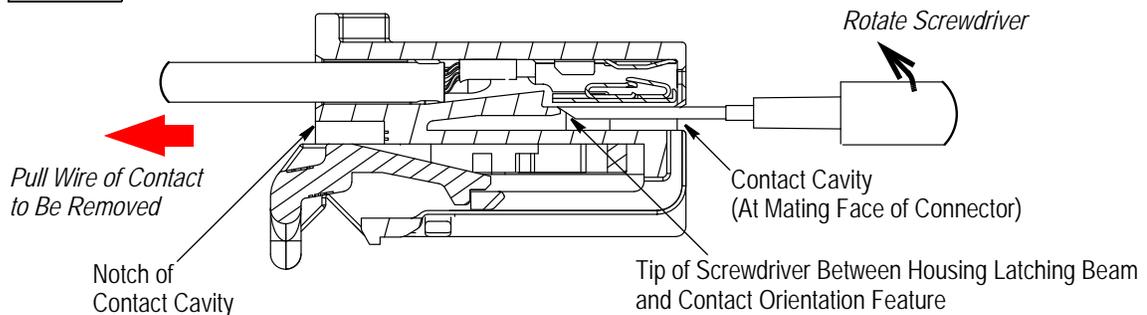
b Remove TPA from Housing
 Repeat Step 1a to release the TPA from the second latch on both sides of the housing. To avoid damage to the TPA, make sure that the TPA is released from both sides of the housing. Pull the TPA from the housing.
Note: Only remove the TPA from the housing when extracting contacts.



2 From the mating face of the connector, insert the tip of the screwdriver into the contact cavity of the contact to be removed. Gently rotate the tip of the screwdriver away from the notch of the contact cavity to release the housing latching beam from the contact orientation feature. Holding the screwdriver in place, pull the wire until the contact is free from the housing.



DO NOT use damaged or defective contacts. DO NOT re-use contacts by removing the wire.



5. REVISION SUMMARY

Initial release of instruction sheet