

Figure 1

Features of 4-position hybrid seat motor plug assembly are shown in Figure 1. The plug assembly accepts two 0.64-mm Generation Y receptacle contacts and two 2.8-mm MCP2.8K receptacle contacts. The plug assembly mates with a 4-position interface.



NOTE

Dimensions in this instruction sheet are in metric units [with U.S. customary units in brackets]. Dimensions are in millimeters. Figures are not drawn to scale.

Reasons for re-issue of this instruction sheet are provided in Section 4, REVISION SUMMARY.

1. ASSEMBLY

1.1. Insert Contacts

1. Ensure that the contacts are crimped according to [114-13183](#) (0.64-mm) and [114-18387](#) (2.8-mm).
2. Ensure that both plug assembly secondary locks are in the open (shipped) position. See Figure 2. If a secondary lock is in the closed (locked) position, open it according to step 1 of Paragraph 2.2.



NOTE

The secondary lock for the 0.64-mm contact cavities must be in the open position before either of the 0.64-mm contacts can be inserted; and the secondary lock for the 2.8-mm contact cavities must be in the open position before either of the 2.8-mm contacts can be inserted.

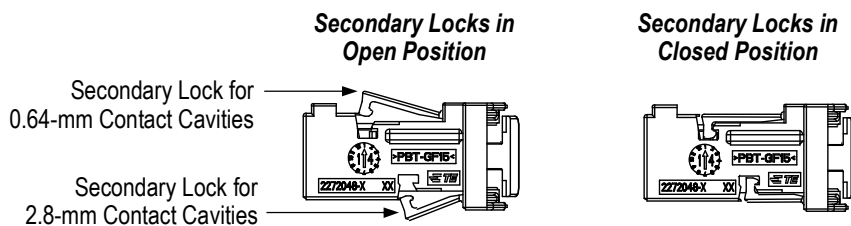


Figure 2

3. From the wire end of the plug assembly, align the contact with the appropriate contact cavity as shown in Figure 3. Insert the contact into the contact cavity until it stops. There should be an audible and tactile click.
4. Gently pull the wire of the contact to ensure that the locking feature of the contact has engaged the primary latch(es) of the contact cavity.
5. After all contacts have been inserted, rotate each secondary lock to the closed (locked) position by applying downward pressure until it is flush with the housing. There should be an audible and tactile click. If a secondary lock will not rotate to the closed position, open the secondary lock, push and pull each wire to ensure that both contacts are fully inserted, then close the secondary lock.

6.

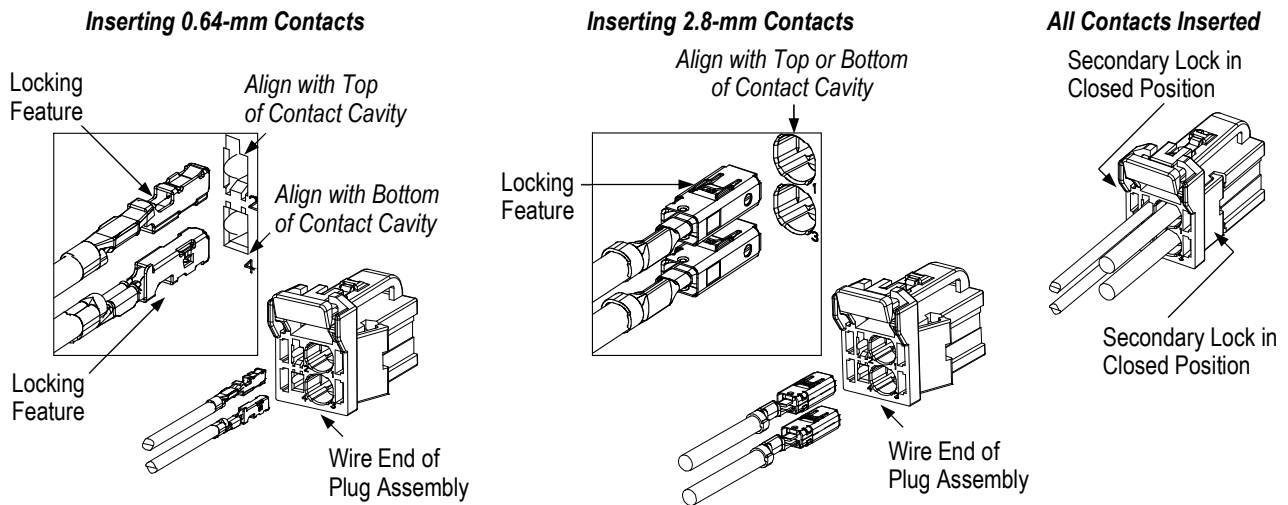


Figure 3

1.2. Test Circuits

1. Obtain individual test probes (or equivalent) having a diameter of 0.64 ± 0.05 -mm and minimum pin length of 1.5 mm are required.



CAUTION

Do not use a pointed or sharp instrument for probing; otherwise, damage to the plug assembly could result. To avoid system failure, the wire insulation must not be pierced.

2. From the mating face of the plug assembly, insert the appropriate test probes into the test probe window of each contact cavity using a force of no more than 10 N [2.25 in.-lb]. Refer to Figure 4 for probe locations.

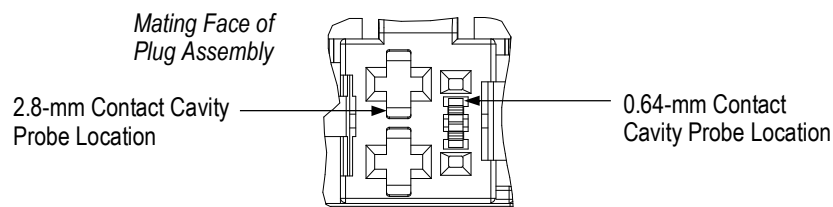


Figure 4

1.3. Mate Plug Assembly with Interface

1. Ensure that the CPA is in the open position shown in Figure 5, Detail A. Align the mating face of the plug assembly with the mating face of the interface.
2. Insert the plug assembly into the interface until there is an audible and tactile click. See Figure 5, Detail B.
3. From the wire end of the plug assembly, push the CPA into the plug assembly until there is an audible and tactile click. See Figure 5, Detail C. Make sure that the force applied to the CPA is inward (in the mating direction) and upward (toward the mating latch) to guarantee proper alignment between the CPA and interface. If the CPA will not move to the locked position, ensure that the plug assembly is fully mated to the interface.

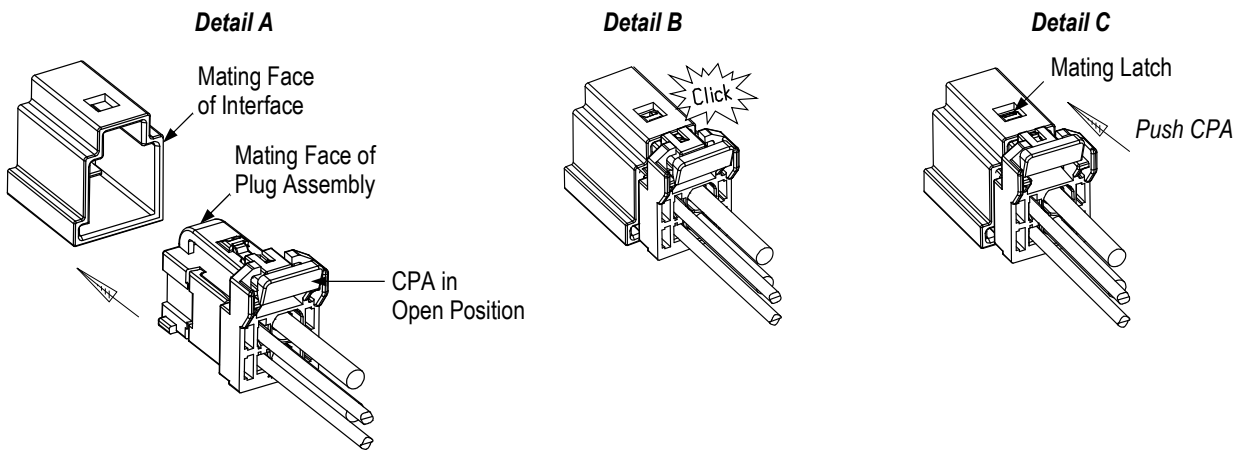


Figure 5

2. DISASSEMBLY

2.1. Unmate Plug Assembly from Interface

1. From the wire end of the plug assembly, pull the CPA away from the plug assembly until it stops.
2. Depress and hold the plug assembly mating latch (shown in Figure 1), then grasping the housing, pull the plug assembly from the interface.



CAUTION

To avoid damage to the contacts, do not use the wires to pull the plug assembly.

2.2. Remove Contacts

1. Using a screwdriver with a tip having a maximum width of 3-mm, insert the tip under the slot of the secondary lock of the plug assembly, and rotate the secondary lock to the open position. To remove all contacts, both secondary locks must be in the open position. Refer to Figure 6. Be careful not to damage the locking features with the screwdriver. Do not rotate the secondary lock past the open position.



NOTE

The secondary lock for the 0.64-mm contact cavities must be in the open position before either of the 0.64-mm contacts can be removed; and the secondary lock for the 2.8-mm contact cavities must be in the open position before either of the 2.8-mm contacts can be removed.



CAUTION

If a secondary lock is rotated past the open position, it will break from the plug assembly, and the plug assembly must not be used.

Rotating Secondary Lock to Open Position

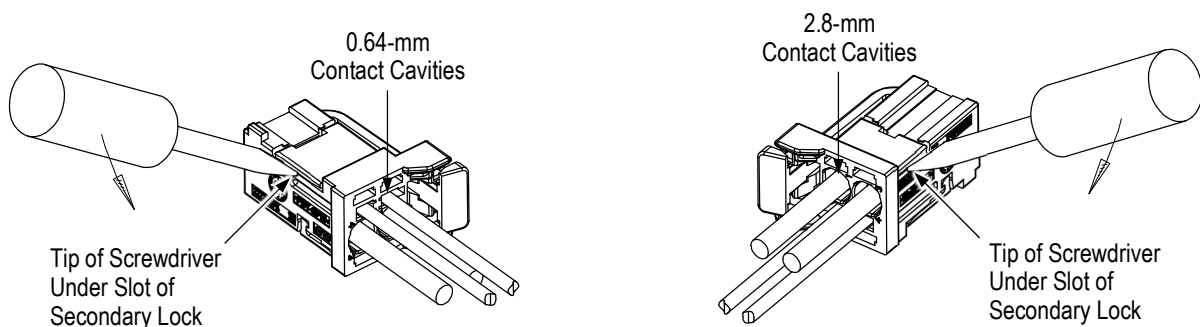


Figure 6

- Using extraction tool 1-1579007-2 for the 2.8-mm contacts and customer-supplied extraction tool with the dimensions given in Figure 7 for the 0.64-mm contacts, insert the tip(s) into the contact cavity of the contact to be removed until it stops.

Dimensions for Customer-Supplied Extraction Tool for 0.64-mm Contacts

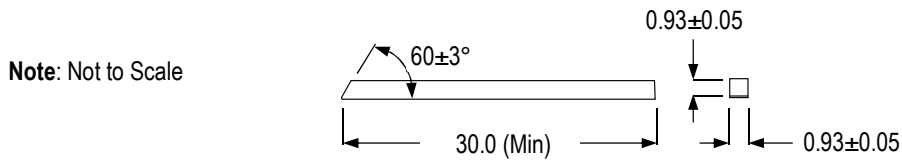


Figure 7

- Holding the extraction tool in place, grasp the wire of the contact to be removed, and push it toward the contact cavity until it stops. This should deflect the primary locking latch(es) from the locking features of the contact. See Figure 8.

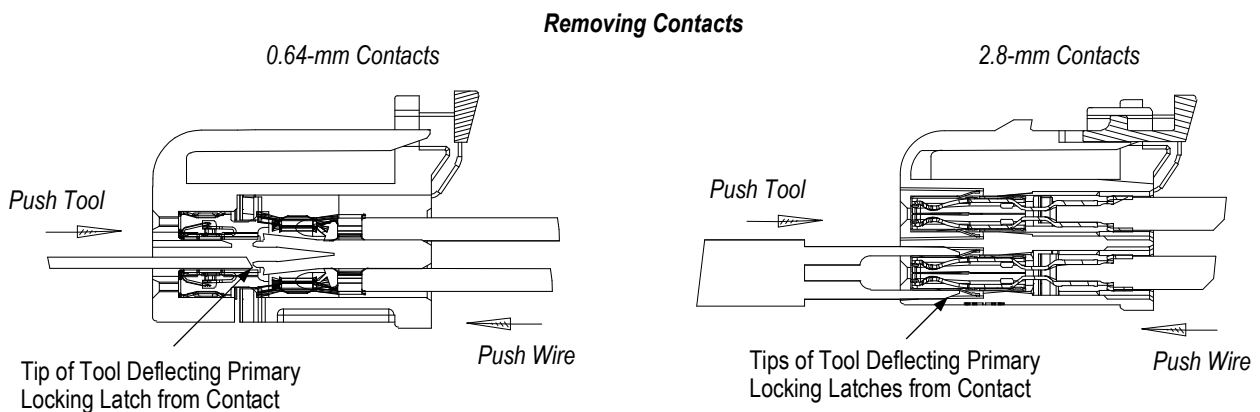


Figure 8

- Pull the wire straight until the contact is out of the plug assembly.

3. REPLACEMENT AND REPAIR

The plug assembly is not repairable. Do not use defective or damaged product. Do not re-use a contact by removing the wire.

4. REVISION SUMMARY

Revisions to this instruction sheet include:

- Updated to correct connector part number, 2316171-[], on title of page 1.
- Clarified the 2.8-mm receptacle contacts are MCP2.8K on page 1, first paragraph.
- Updated to correct application spec for MCP2.8K terminals on page 1, section 1.1.1.
- Updated to correct 2.8mm removal tool on page 4, section 2.2.2.