



MiniMate® CONNECTOR IPD1 SERIES
CAT-EX-179-01
CAT-RE-169-01
Contact Extraction Tool & Lance Reset Tool

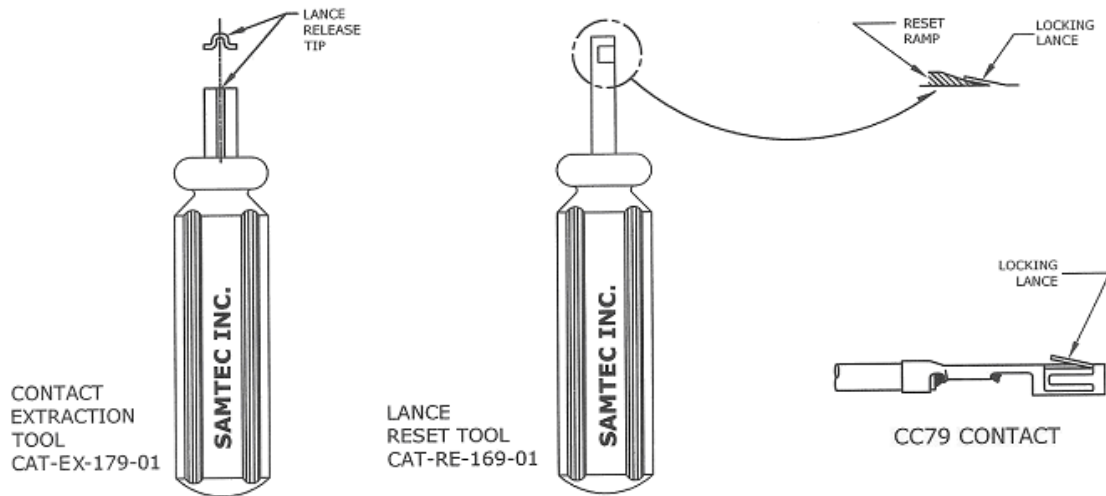


FIGURE 1

1. INTRODUCTION

Contacts can be safely removed from a housing cavity and reinserted into a new position by using the extraction tooling shown in **Figure 1**. This instruction sheet covers the use of SAMTEC's Contact Extraction Tool CAT-EX-179-01 and Lance Reset Tool CAT-RE-169-01. These tools are intended to aid in the removal of the CC79R or CC79L MiniMate® contacts from housing and reset the locking lance position of the removed contact.

2. CUSTOMER SERVICE

Further tooling and product application assistance is available by contacting the **Samtec Customer Service Department (1-800-SAMTEC9)** 8:00 AM to 5:00 PM eastern time. To expedite your inquiry, have the pertinent part numbers for the product and tooling.

3. DESCRIPTION

Each tool handle is marked with the contact number for which it was designed. Make sure it matches the product numbers you are working with.

The MiniMate® contact has a locking lance that can be released through a contact catch cavity located in the front of the housing as shown in **Figure 2**. The contact extraction tool has a protrusion that is inserted into the contact catch cavity to depress the locking lance the correct amount for contact removal.

CAUTION- Do not use an unintended tool to release the locking lance such as a screwdriver or other sharp device. This can cause damage to the locking lance and weaken its ability retain the reinserted contact in the housing.

The lance reset tool is used to adjust the height of the locking lance, if necessary, after extraction. This assures that the contact retention force will be correct after re-insertion.



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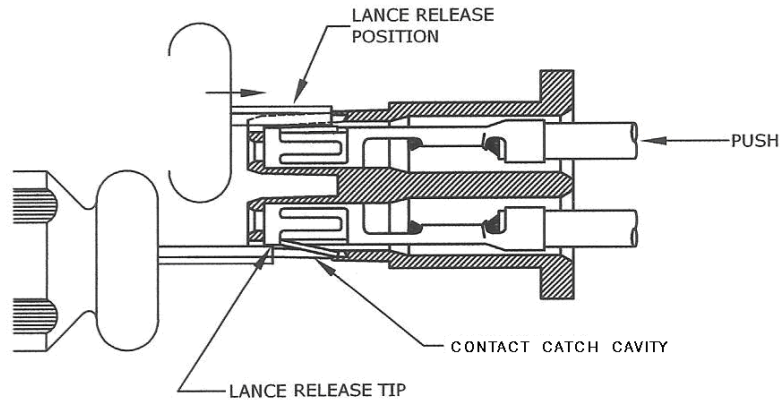


Figure 2

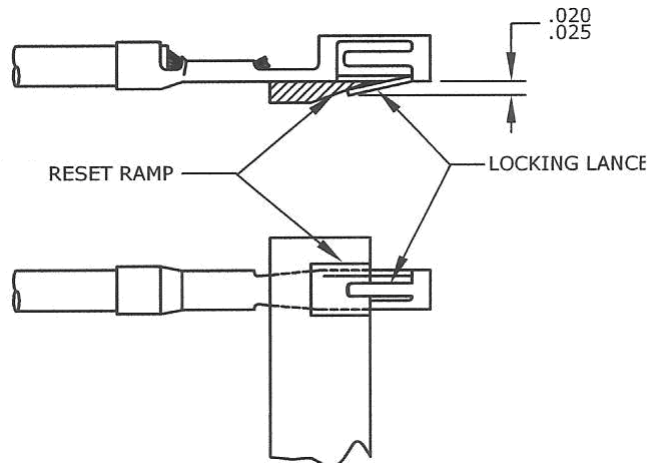


Figure 3

4. EXTRACTION PROCEDURE

The following steps are recommended:

1. Push the desired contact forward to the bottom of its cavity. This will provide clearance for the locking lance to be depressed.
2. Engage the lance release tip of the contact extraction tool in the contact catch cavity as shown in **Figure 2**. With downward pressure, push the contact extraction tool toward the back of the contact catch cavity to release the locking lance.
3. Maintain downward pressure on the lance release tip then grip the contact and pull the contact from its cavity.



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5. LOCKING LANCE RESET PROCEDURE

Before reinserting an extracted contact, it is necessary to check the locking lance height to assure the proper retention of the contact in the housing as shown in **Figure 3**. The locking lance height should be .020 in to .025 inches high. If adjustment is necessary, proceed as follows:

1. Align the lance reset tool so that the reset ramp is facing the open portion of the locking lance.
2. Slide the reset ramp under the locking lance until the height appears to be correct.
3. Recheck the locking lance height; repeat setting procedure if necessary.

6. CONTACT RE-INSERTION

In all rows, the locking lance must be **facing the outside** of the housing to latch the contact into the cavity. Push the contact straight into the cavity until an audible **click** is heard. Give the contact a light tug to confirm that the contact is locked in place.