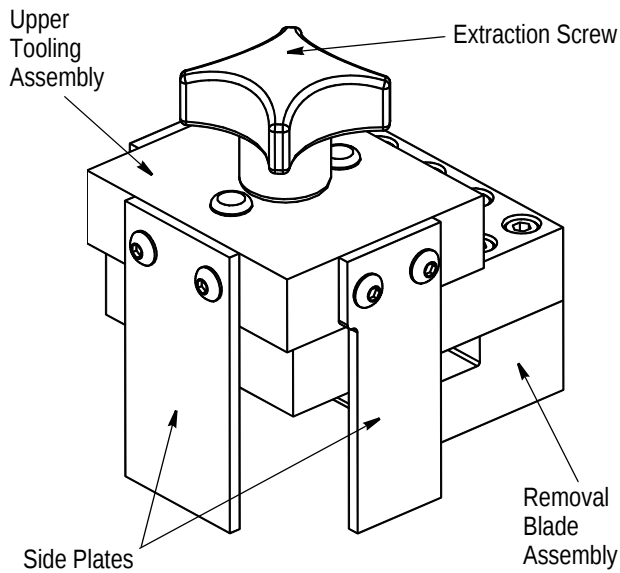




REMOVAL TOOL	DESCRIPTION	RECEPTACLE PART NO.
2161646-1	REMOVAL TOOL, 1-Position	2149027-1
2161647-1	REMOVAL TOOL, 2-Position	2149966-1
2161648-1	REMOVAL TOOL, 4-Position	2149375-1

Figure 1

1. INTRODUCTION

The HD Mini-SAS Removal Tools 2161646-1, 2161647-1, and 2161648-1 are designed to remove receptacle part numbers listed in Figure 1 from a printed circuit (pc) board.

Read and understand these instructions before using the removal tools.

2. DESCRIPTION

The removal tools consist of a removal blade assembly and an upper tooling assembly. Refer to Figure 1. The side plates of the upper tooling assembly push on the pc board surface while removing the receptacle. The removal blade assembly engages the receptacle and pulls it from the pc board. The extraction screw draws the removal blade assembly up and pulls the receptacle assembly away from the pc board.

3. REMOVAL PROCEDURE



Be certain the removal tool assembly does not contact any components on the pc board during use.

1. Disassemble the upper tooling assembly and removal blade assembly by unscrewing the extraction screw.

2. Insert the removal blade assembly into the receptacle. See Figure 2.

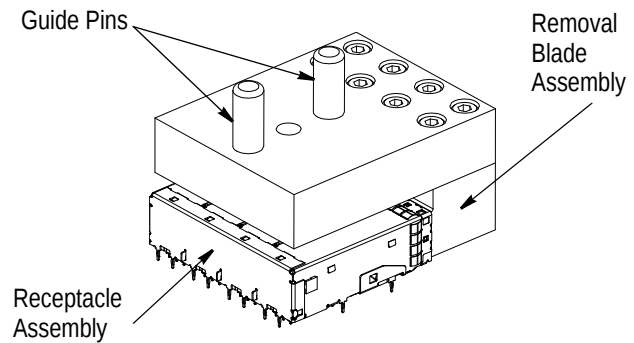


Figure 2

3. Position the upper tooling assembly over the pins in the blade removal assembly. Lower the upper tooling assembly until the side plates contact the pc board. See Figure 3.

4. Tighten the extraction screw to remove the receptacle assembly from the pc board.

4. MAINTENANCE AND INSPECTION

TE Connectivity recommends that the tool be inspected immediately upon its arrival to ensure that it has not been damaged during shipment.

4.1. Daily Maintenance

It is recommended that each operator be made aware of, and responsible for, the following steps of daily maintenance:

- Remove dust, moisture, and other contaminants with a clean, soft brush, or lint-free cloth. DO NOT use objects that could damage the tool or any of its components.
- When the tool is not in use, store it in a clean, dry area.

4.2. Periodic Inspection

Regular inspections should be performed by quality control personnel. A record of scheduled inspections should remain with the tool or be supplied to personnel responsible for the tool. The inspection frequency should be based on the amount of use, working conditions, operator training and skill, and established company standards.

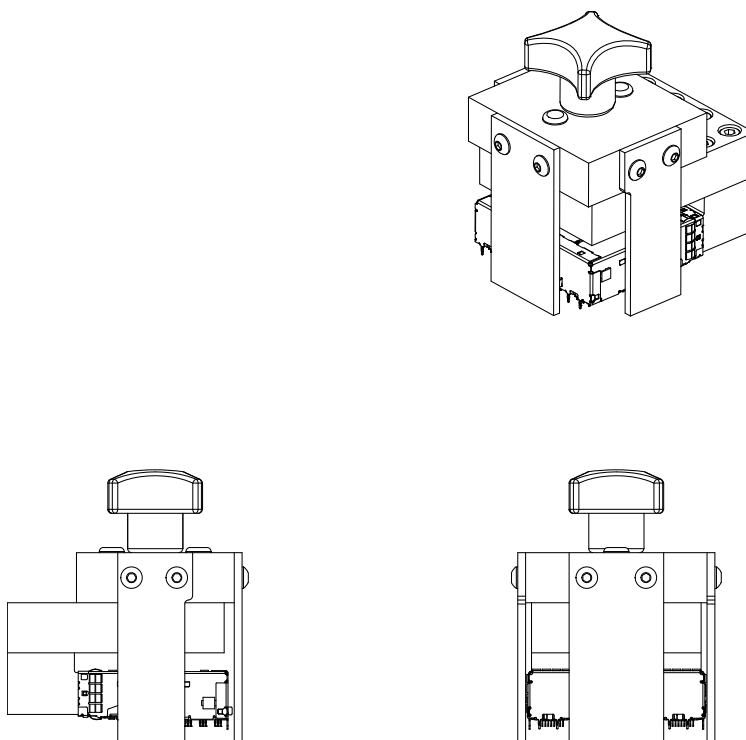


Figure 3

5. REPLACEMENT AND REPAIR

Order tools through your TE Representative, or call 1-800-526-5142, or send a facsimile of your purchase order to 717-986-7605. or write to:

CUSTOMER SERVICE (038-035)
TYCO ELECTRONICS CORPORATION
PO BOX 3608
HARRISBURG PA 17105-3608

6. REVISION SUMMARY

- Initial release of document