

## 1. INTRODUCTION

This instruction sheet covers the use of the SAMTEC DCH Extraction Tool, the CAT-EX-DCH-08-01. This tool assists in the removal of the DCH-08 cable assembly. This tool is only intended for the extraction of DCH-08-X.XX-X-XX-X-X-X. It is not intended for any of the DCH-04 variants.

## 2. CUSTOMER SERVICE

Further tooling and product application assistance is available by contacting the **Samtec Application Service Line +1-800-726-8329 (+1-812-944-6733)** 8:00 AM to 5:00 PM Eastern Standard Time. To expedite your inquiry, have the pertinent part numbers for the product and tooling.

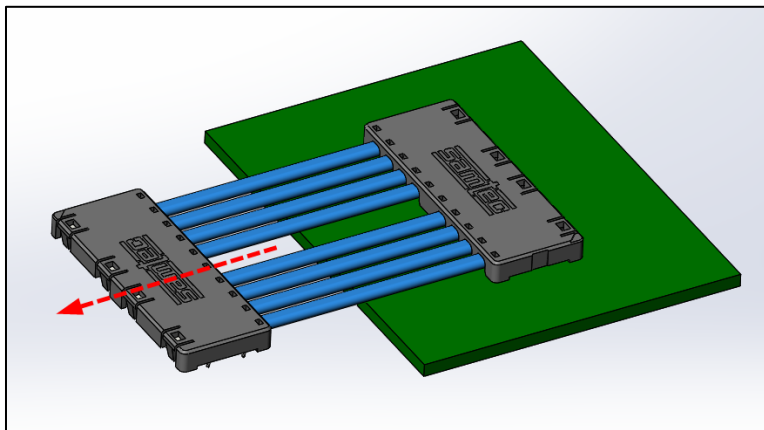
## 3. DESCRIPTION

This tool is used in removing a DCH-08-X.XX-X-XX-X-X-X cable assembly from a printed circuit board. This tool will work on board thicknesses up to 0.230" (5.84mm). Each tool has the front marked with the "DCH-08-X.XX EXTRACTION". Confirm your tool matches as described before proceeding with this document.

## 4. EXTRACTION

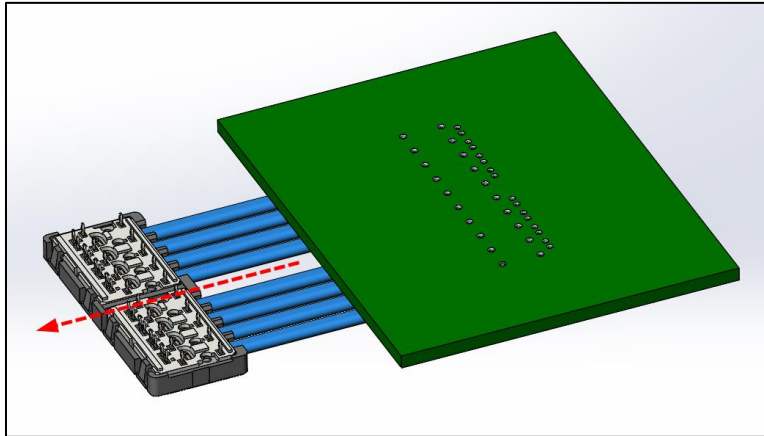
The following steps are recommended for removing a DCH-08 cable assembly:

1. Note which direction the cables are protruding from the cable assembly, as shown in **Figure 1**. Note that the sizing of the printed circuit board, the length of the DCH-08 cables, and the opposite end of the cable assembly may not match what is shown in this document.



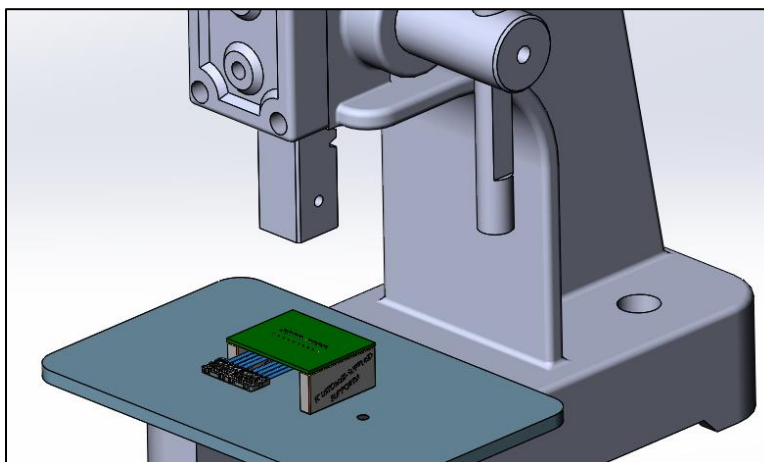
**FIGURE 1**

2. Flip the printed circuit board, keeping the cables in the same direction as before, as shown in **Figure 2**.



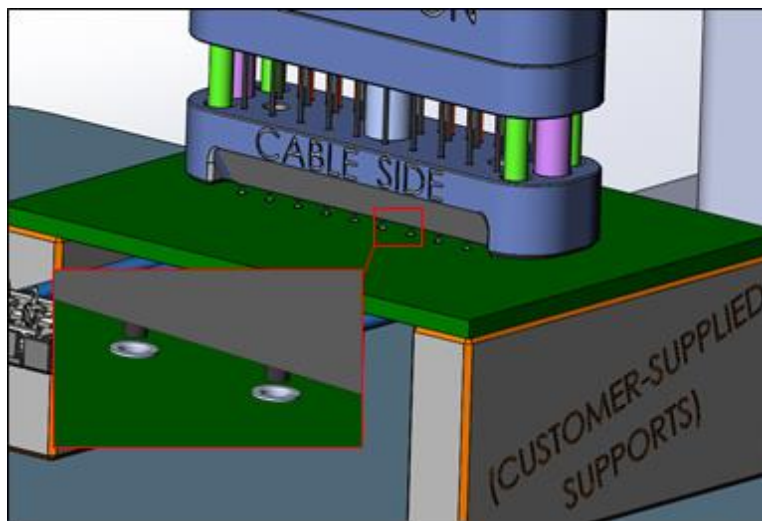
**FIGURE 2**

3. Place the printed circuit board onto customer-supplied supports on an arbor press. The supports need to support the printed circuit board around the DCH-08 cable assembly but provide room for the DCH-08 cable assembly to be extracted from the printed circuit board. The DCH-08 vias in the circuit board should be located directly below the arbor press ram, as shown in **Figure 3**.
- The maximum amount of force required to extract the DCH-08 cable assembly and to actuate the extraction tool is estimated at 69 pounds (31.3kgf, 306.9 N). Any small or large arbor press should provide adequate force to complete the extraction task.
  - Note that the arbor press and customer-supplied supports may not match what is shown below.



**FIGURE 3**

4. Locate the CAT-EX-DCH-08-01 extraction tool onto the printed circuit board. Confirm the "CABLE SIDE" marking is facing the same direction as the protruding cables. The chamfer cutout on the bottom front edge of the tool is to assist in aligning the small extraction pins into the printed circuit board's vias, as shown in **Figure 4**.
  - a. When the extraction tool is correctly aligned above all vias, it will sit firmly flat against the printed circuit board (assuming the minimum board thickness used is .062" (1.57mm)).
  - b. Note that the tool colors shown in this document will not match the physical tool.



**FIGURE 4**

5. With the extraction tool located, use the arbor press to force the head of the extraction tool downwards. Use a controlled motion to minimize the chances of stroking the extraction tool more than necessary, possibly damaging the printed circuit board. The DCH-08 cable assembly will gently pop off the printed circuit board. This completes the extraction process.

## 5. COMPATIBILITY

This extraction tool is compatible with the following DCH cable assemblies:

- DCH-08-XX.X-X-XX-X-X-X

This extraction tool is not compatible with the following DCH cable assemblies:

- DCH-04-XX.X-X-XX-X-X-X