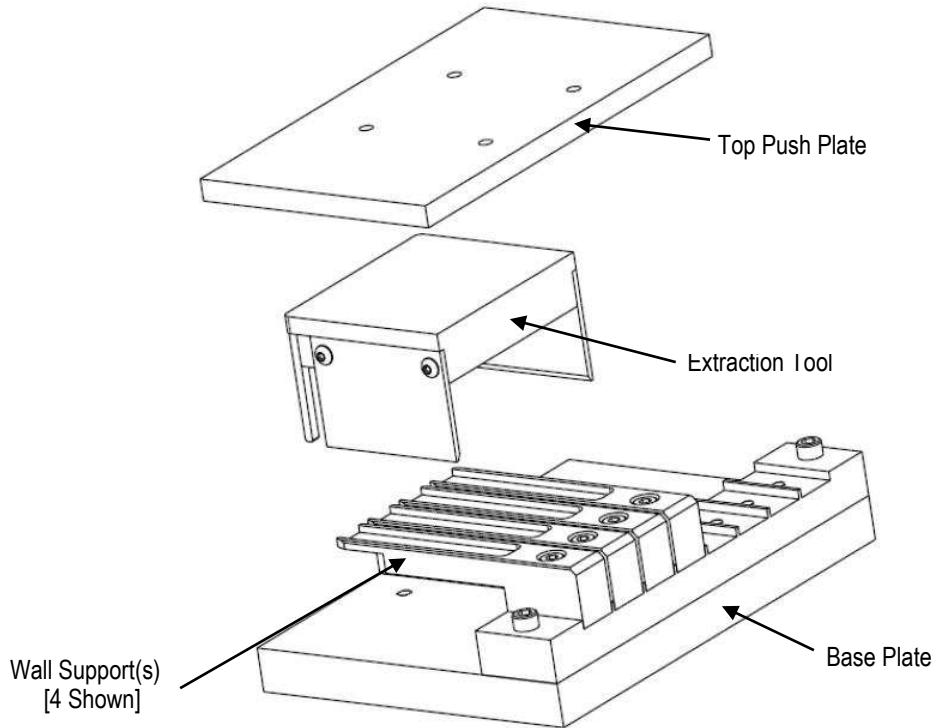


Small Form-Factor Pluggable (Micro QSFP) Cage Assembly Extraction Tool Assembly  
PN 1-2215067 [-4 Shown]



Extraction Tool PN	Micro QSFP Cage Assembly Configuration
1-2215067-1	1 X 1
1-2215067-2	1 X 2
1-2215067-3	1 X 3
1-2215067-4	1 X 4

Figure 1

## 1. INTRODUCTION

The Micro QSFP Cage Assembly Extraction Tool (PN 1-2215067-[ ]) is used to remove the printed circuit (pc) board from Micro QSFP connector and cage assemblies. The cage assemblies contain press-fit contacts.



**NOTE**

*Read these instructions thoroughly before using the extraction tool.*



**NOTE**

*Dimensions in this sheet are in millimeters [with inches in brackets]. Illustrations are for reference only and are not drawn to scale.*

## 2. DESCRIPTION

Each extraction tool assembly consists of an extraction tool, top push plate, base plate, and wall support(s) (see Figure 1).

The base plate features a Finger Mounting Block that holds up to four Wall Supports to the Base Plate. The Top Push Plate is designed to be installed onto the upper tooling of the applicator and the Base Plate is designed to be installed onto the lower tooling of the applicator. The Extraction Tool has cutouts (one located on each side) to accept the protruding part of the cage assembly. Each “finger” of a Wall Support fits into a port of the cage assembly.

During extraction, the back and sides of the extraction tool protect the cage assembly from damage, the Wall Supports provide rigidity to the individual ports of the cage assembly, and the Top Push Plate provides a surface for application of an even force to effect the extraction.

## 3. APPLICATION TOOLING REQUIREMENT

Power for the Extraction Tool must be provided by application tools (with a ram) capable of supplying a downward force of 44.5 N [10 lb-force] per contact.

Manual Arbor Frame Assembly 58024-1 is available for use with these extraction tools. Refer to Instruction Sheet [408-6923](#) for operating procedure.



**CAUTION**

*Over-driving of the extraction tool could cause damage to the connector or cage assembly.*

## 4. EXTRACTION PROCEDURE

1. Ensure that the number of Wall Supports installed (from 1 to 4) onto the Finger Mounting Block matches the number of ports of the cage assembly.



**NOTE**

*It is recommended to center the group of Wall Supports on the Finger Mounting Block (see Figure 2).*

2. Install the Top Push Plate onto the upper tooling and the Base Plate (with the Wall Supports) onto the lower tooling of the application tool.



**CAUTION**

*Ensure the upper and lower tooling are secure; otherwise, damage to the connector and cage assembly could occur.*

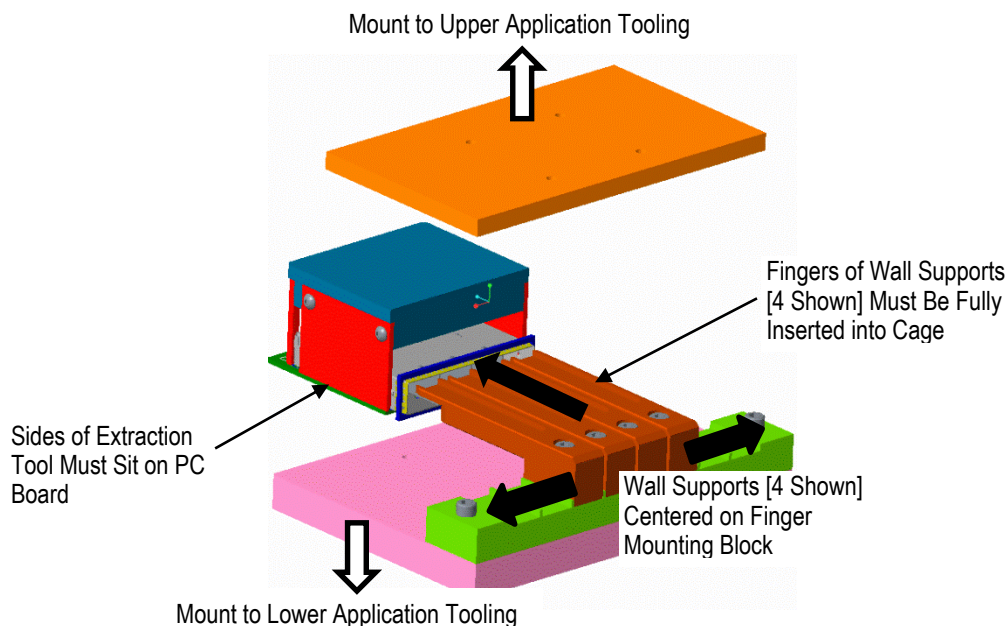


Figure 2

3. Place the open end of the Extraction Tool over the cage assembly so the cutouts align with the protruding part (at the back) of the cage assembly. **Make sure the sides of the Extraction Tool sit on the pc board.**
4. Slide the Extraction Tool (with the connector, cage assembly, and pc board) onto the Wall Supports so that each “finger” of each Wall Support enters a port of the cage assembly. **Make sure the fingers are fully inserted into the ports.**
5. Cycle the application tool to extract the pc board from the connector and cage assembly. Then retract the ram, and carefully remove the Extraction Tool (with the connector and cage assembly) from the Wall Supports.

## 5. MAINTENANCE AND INSPECTION

The Extraction Tool is inspected before shipment. It is recommended that the tool be inspected immediately upon arrival at the facility of use, to ensure that it has not been damaged during shipment and that it conforms to the dimensions provided in Figure 3.

### 5.1. Daily Maintenance

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

1. Remove dust, moisture, and contaminants with a clean, soft brush or a lint-free cloth. DO NOT use objects that could damage the Extraction Tool components.
2. When the Extraction Tool is not in use, store it in a clean, dry area.

### 5.2. Periodic Inspection

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

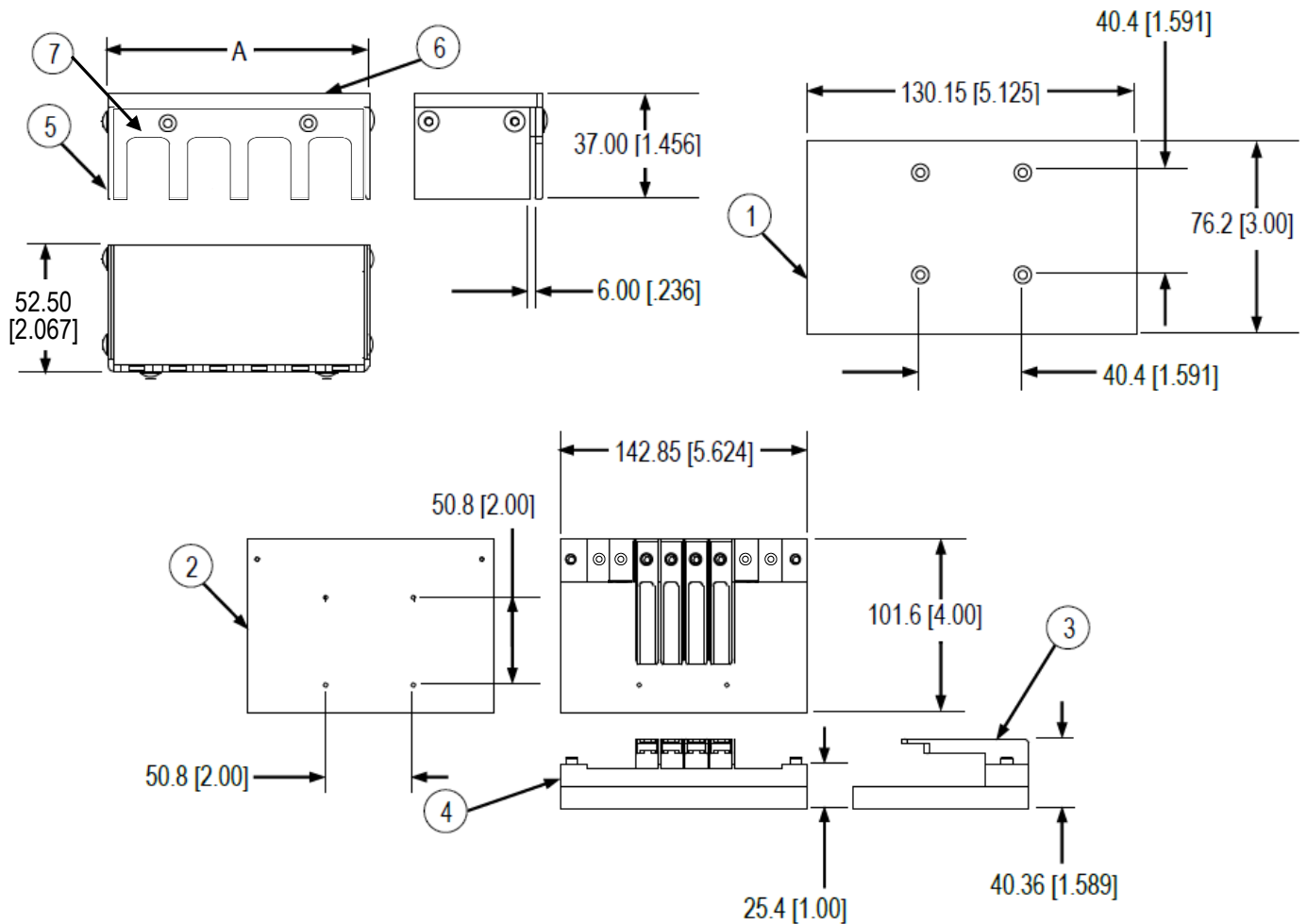
## 6. REPLACEMENT AND REPAIR

Customer-replaceable parts are listed in Figure 3. A complete inventory should be stocked and controlled to prevent lost time when replacement of parts is necessary. Parts other than those listed should be replaced by TE Connectivity (TE) to ensure quality and reliability. Order replacement parts 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)  
TE CONNECTIVITY CORPORATION  
PO BOX 3608  
HARRISBURG PA 17105-3608

## 7. REVISION SUMMARY

- ◆ Initial release of document



NOTE: 1X4 [PN 1-2215067-4] Extraction Tool Shown

Tool (By Part Number)	Dimension "A"
1-2215067-1	19.75 [.778]
1-2215067-2	34.00 [1.339]
1-2215067-3	48.25 [1.900]
1-2215067-4	62.50 [2.461]

Item No.	Description	1X1	1X2	1X3	1X4
		[PN 1-2215067-1]	[PN 1-2215067-2]	[PN 1-2215067-3]	[PN 1-2215067-4]
<b>Part QTY per Tool [Part Number]</b>					
1	Top Push Plate	1 [PN 2161356-1]			
2	Base Plate	1 [PN 2161354-1]			
3	Wall Support	1 [PN 2215807-2]	2 [PN 2215807-2]	3 [PN 2215807-2]	4 [PN 2215807-2]
4	Finger Mounting Block	1 [PN 2215806-1]			
5	Side Plate	2 [PN 2215809-3]			
6	Center Block	1 [PN 2215810-9]	1 [PN 1-2215810-0]	1 [PN 1-2215810-1]	1 [PN 1-2215810-2]
7	Rear Plate	1 [PN 2215882-2]	1 [PN 2215882-3]	1 [PN 2215882-4]	1 [PN 2215882-1]

Figure 3