3070-97

# Modification Available Performance Enhancement Service Note

Supersedes:

## Keysight i3070 Series 5 Inline In-Circuit Test System

E9986E: MY57410001 - MY57410005, MY57410007, MY57410008, MY57410102, MY57410105, MY57410107 - MY57410112, MY49430623

**The Problem** – ESD Belt Guide Bar replacement for i3070 4 module Inline ICT

**Parts Required:**

| P/N | Description | Qty. |
|---|---|---|
| E9986-61205 | EMU ESD Belt Guide Bar for 3mm, 5mm and 10mm Edge Support | 1 |

ADMINISTRATIVE INFORMATION

| | |
|---|---|
| [[]] Calibration Required | PRODUCT LINE: PL80 |
| [X] Calibration NOT Required | AUTHOR: Wee-Sheng |

ADDITIONAL INFORMATION:

KEYSIGHT TECHNOLOGIES

## Situation:

The 4-module inline In-circuit tester (ICT) conveyor belt guide bar used to manage the conveyor belt exposure to support 3mm, 5mm and 10mm (Figure 2 - 4) of printed circuit board edge.

The existing conveyor belt guide bars can support anti-static and electrostatic discharge (ESD) belts. All ESD belts are within the material specification, but some of the ESD belts thickness are within the high side of the material tolerance specification causing the gap in between belt guide bar and conveyor rail become smaller.
If you change the conveyor belt from anti-static (P/N: E9986-33602) to ESD (P/N: E9986-33605), you may encounter the symptoms described below

1. ESD belt may worn out too fast unexpectedly.
2. ESD belt may stuck when belt motor is turn-on.

## Solution/Action:

If you have used/changed to the ESD belts, the recommendation is to replace with the latest designed belt guide bar. It has new oval shape screw hole (Figure 1B) to accommodate ESD belts thickness that are within the high side of the material tolerance specification.

Figure 1A: existing round shape screw hole

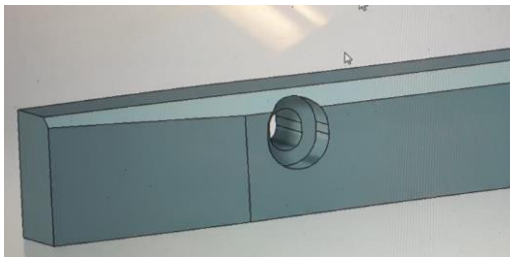

Figure 1B: new oval shape screw hole

You do not require to take any action if your system

1. still using Anti-Static conveyor belt
2. serial number not listed in this service note

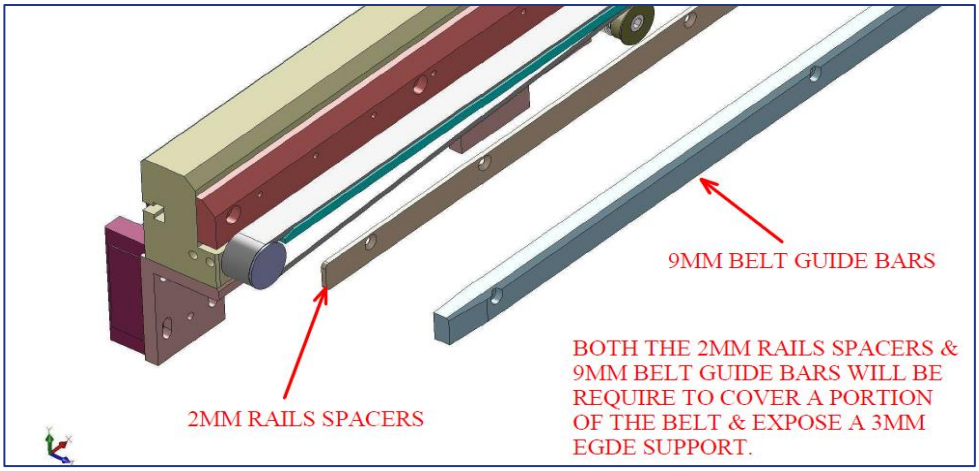

Figure 2: 3mm board edge support

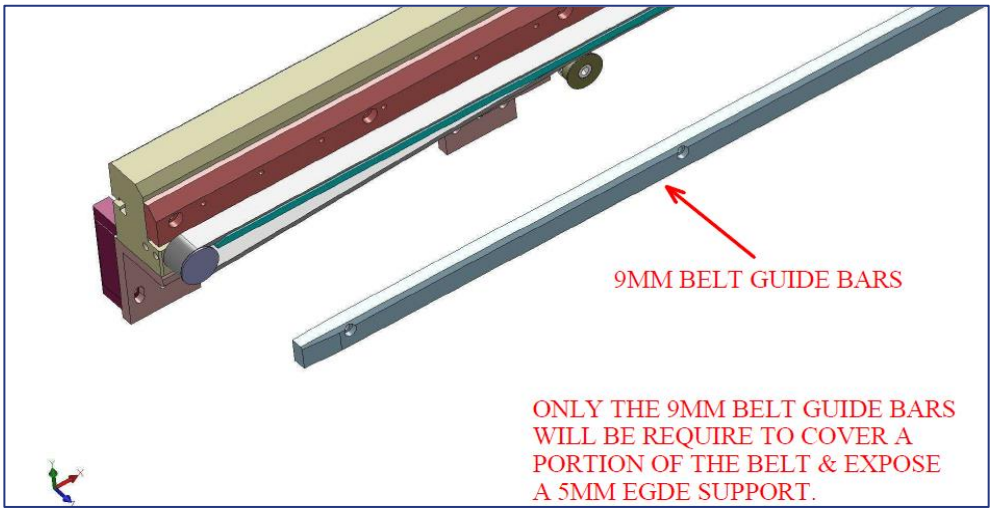

Figure 3: 5mm board edge support

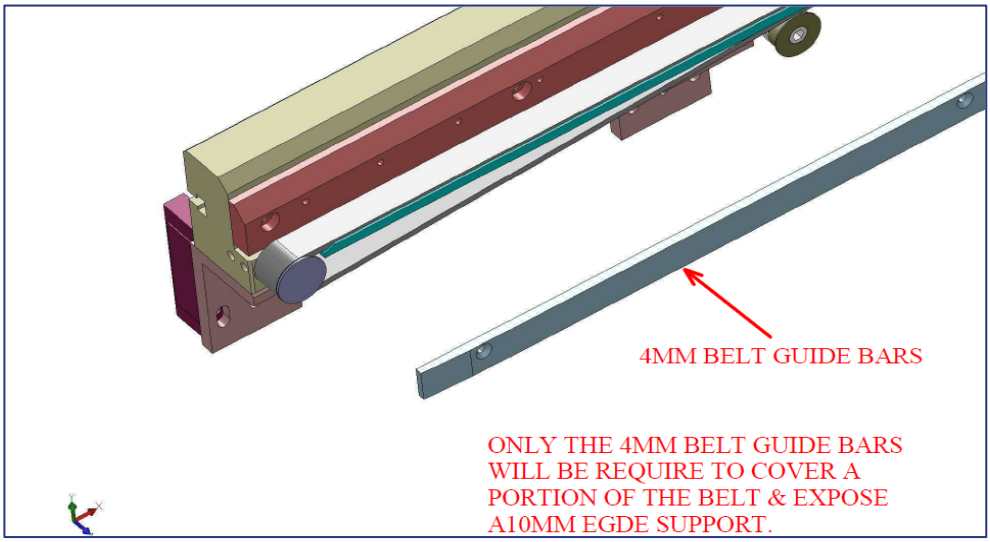

Figure 5: 10mm board edge support

Revision History:

| Date | Service Note Revision | Author | Reason for Change |
|---|---|---|---|
| 15 April 2020 | 01 | Wee Sheng | As Published |
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