

# Modification Recommended Service Note

## Keysight i3070 Series 5 In-Circuit Test System

Supersedes:  
NONE

### Serial Numbers:

- E9903E - MY49430045 till MY58120185
- E9902E - MY49420414 till MY58110126
- E9901E - MY49410384 till MY58100104
- E9905E - MY49440223 till MY49440004
- E9901EL - MY52350134 till MY52350003
- E9905EL - MY56160008 till MY58160131
- E9903DR - MY47460154R till MY47460171R
- E9902DR - MY47450228R till MY47450244R

**The Problem** – The i3070 Series 5 In-Circuit Test System that testhead rotation motor may not grounded properly to the testhead frame/chassis.

### Parts Required:

P/N	Description	Qty.
NONE		

### ADMINISTRATIVE INFORMATION

ACTION	<input checked="" type="checkbox"/> ON SPECIFIED FAILURE	STANDARDS			
CATEGORY:	<input type="checkbox"/> AGREEABLE TIME	LABOR:	1.0 Hours		
LOCATION	<input type="checkbox"/> CUSTOMER INSTALLABLE	SERVICE:	<input type="checkbox"/> RETURN	USED	<input type="checkbox"/> RETURN
CATEGORY:	<input checked="" type="checkbox"/> ON-SITE (active On-site contract required)	INVENTORY:	<input type="checkbox"/> SCRAP	PARTS:	<input type="checkbox"/> SCRAP
	<input type="checkbox"/> SERVICE CENTER		<input type="checkbox"/> SEE TEXT		<input type="checkbox"/> SEE TEXT
	<input checked="" type="checkbox"/> CHANNEL PARTNERS				
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL:	1 <sup>st</sup> June 2020		
	<input type="checkbox"/> Calibration Required	PRODUCT LINE:	80 – In Circuit Tester		
	<input checked="" type="checkbox"/> Calibration NOT Required	AUTHOR:	Wee-Sheng, Yong		

ADDITIONAL INFORMATION:

**Situation:**

The i3070 Series 5 In-circuit system controller that the testhead rotation motor may not grounded properly to the testhead frame/chassis.

It is recommended that user to perform grounding check between motor screw and chassis screw as shown in the pictures below. If the reading found to be “OL” (open circuit), it is recommended to perform the Action described below.

Note: No action is needed if you didn't encounter the situation described above. The above situation will not occur on i3070 Series 5i (Inline). Hence, no action needed too.



Figure 1: Measure between motor body (alum metal) and chassis screw

The root cause could be the hole (red circle areas) may be covered by the paint and causing measurement to be “OL”. After the paint was removed from the hole and measurement reading is 0.5 ~ 0.8.

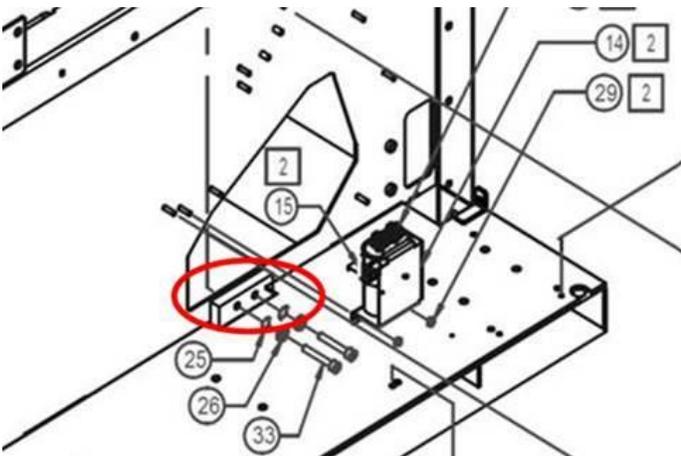


Figure 2: Screws and screw hole location

**Solution/Action:**

**Tools needed: Flat File and Needle File**

To rectify the poor grounding situation, please follow the steps described below

1. Remove the cover near the PDU to access to the screw hole.
2. Remove motor bracket mounting calves.
3. Remove the two screws.
4. Use "File" as tools to remove the paint from the both screw track.
5. Then tighten back both screws.
6. Use multi-meter to ensure connectivity within 0.5 ~ 0.8.
7. Place back the motor bracket mounting calves

Type	Photo Before Rework	Photo After Rework
E99xxE/D		
E99xxEL		

**Revision History:**

Date	Service Note Revision	Author	Reason for Change
1 <sup>st</sup> May 2019	01	Wee-Sheng, Yong	As Published

