

MODIFICATION RECOMMENDED –
CORRECTS MANUFACTURING OR DESIGN DEFECTS

E5070A-03

S E R V I C E N O T E

Supersedes:
NONE

E5070A ENA Series Network Analyzer, 300 kHz to 3 GHz

Serial Numbers: **JP1KJ00000 / JP1KJ00138**

Handler I/O Port Malfunction Due to TTL-Low Level Threshold Voltage Anomaly

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

P/N	Description	Qty.
E5070-61006	HANDLER I/O BOARD	1

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS: LABOR: 0.5 Hours	
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT	USED PARTS: <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: January 2005	
AUTHOR: TO		PRODUCT LINE: WN	
ADDITIONAL INFORMATION:			

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Situation:

The 24-bit handler I/O of the E5070A units with the specified serial numbers may not function normally. Due to the possible threshold-voltage anomaly of TTL input circuit at either of the I/O pins 2, 18 and 22 through 29, the handler I/O port may ignore the “Low” state of control input signals. When the threshold voltage for TTL-Low level is too low (lower than 0.5 V), it is possible that control input signal does not cross the threshold voltage (V_{LTH}) though the “Low” level of the signal is within the recommended voltage range (0 V to 0.5 V). As a result, a handler interface error occurs. See Figure 1.

Note: Old version of the E5070A/E5071A Programmer’s Guide has an error concerning the recommended voltage range for the “Low” level of input signal. The correct voltage range is 0 V to 0.5 V.

Solution/Action:

When the threshold voltage of the handler I/O (either of the I/O pins) is too low, replace the A23 Handler I/O board with new one (P/N E5070-61006).

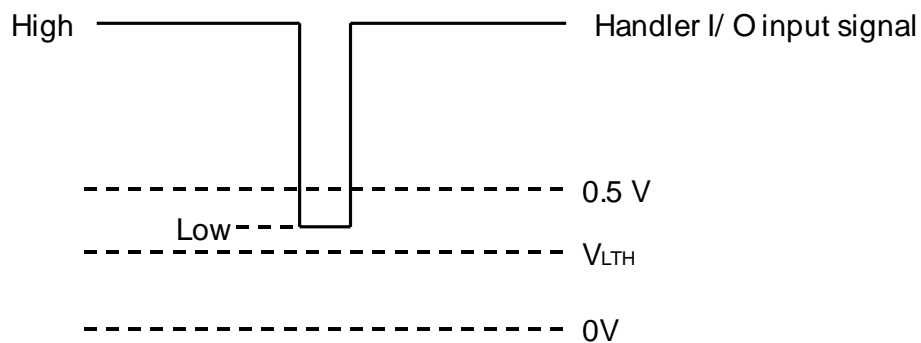


Figure 1. Threshold voltage anomaly