44473A-01A

S E R V I C E N O T E

Supersedes:
44473A-01

44470A **10 channel multiplexer module for 3499A/B. Includes a screw terminal block**
44471A **10-channel General Purpose Relay for 3499A/B. Includes a screw terminal block**
44473A **4x4 Matrix Module for 3499A/B. Includes a screw terminal block**
44474A **16-bit Digital I/O Module for 3499A/B. Includes a screw terminal block**

Serial Numbers:

- 44470A MY42002128 / MY42002162, SG42000214
- 44471A MY42002864 / MY42002994
- 44473A MY42001268 / MY42001289
- 44474A MY42001982 / MY42002020, SG 42000221 / SG42000223

Shipments occurred between: 1-Jan-2008 and 08-April-2008

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION: **MODIFICATION RECOMMENDED**			
ACTION CATEGORY: :	X IMMEDIATELY [[]] ON SPECIFIED FAILURE [[]] AGREEABLE TIME	STANDARDS LABOR: 0.1 Hours	
LOCATION CATEGORY:	X CUSTOMER INSTALLABLE x ON-SITE X SERVICE CENTER	SERVICE INVENTORY:	[[]] RETURN [[]] SCRAP [[]] SEE TEXT
		USED PARTS:	[[]] RETURN x SCRAP [[]] SEE TEXT
AVAILABILITY: PRODUCT'S SUPPORT LIFE		NO CHARGE AVAILABLE UNTIL: ALWAYS	
AUTHOR: [initials] GLS		PRODUCT LINE: SP	
ADDITIONAL INFORMATION:			

April 28, 2008
Rev. 14

Agilent Technologies

Defective connectors shipped with 44470A, 44471A, 44473A, 44474A
The 44470A, 44471A, 44473A, and 44474A contain a main relay card and a removable screw terminal block (see Figure 1). Some of the removable terminal blocks that were shipped between 1-Jan-2008 and 08-April-2008 have a defective connector that results in half of the pins being unconnected**.**

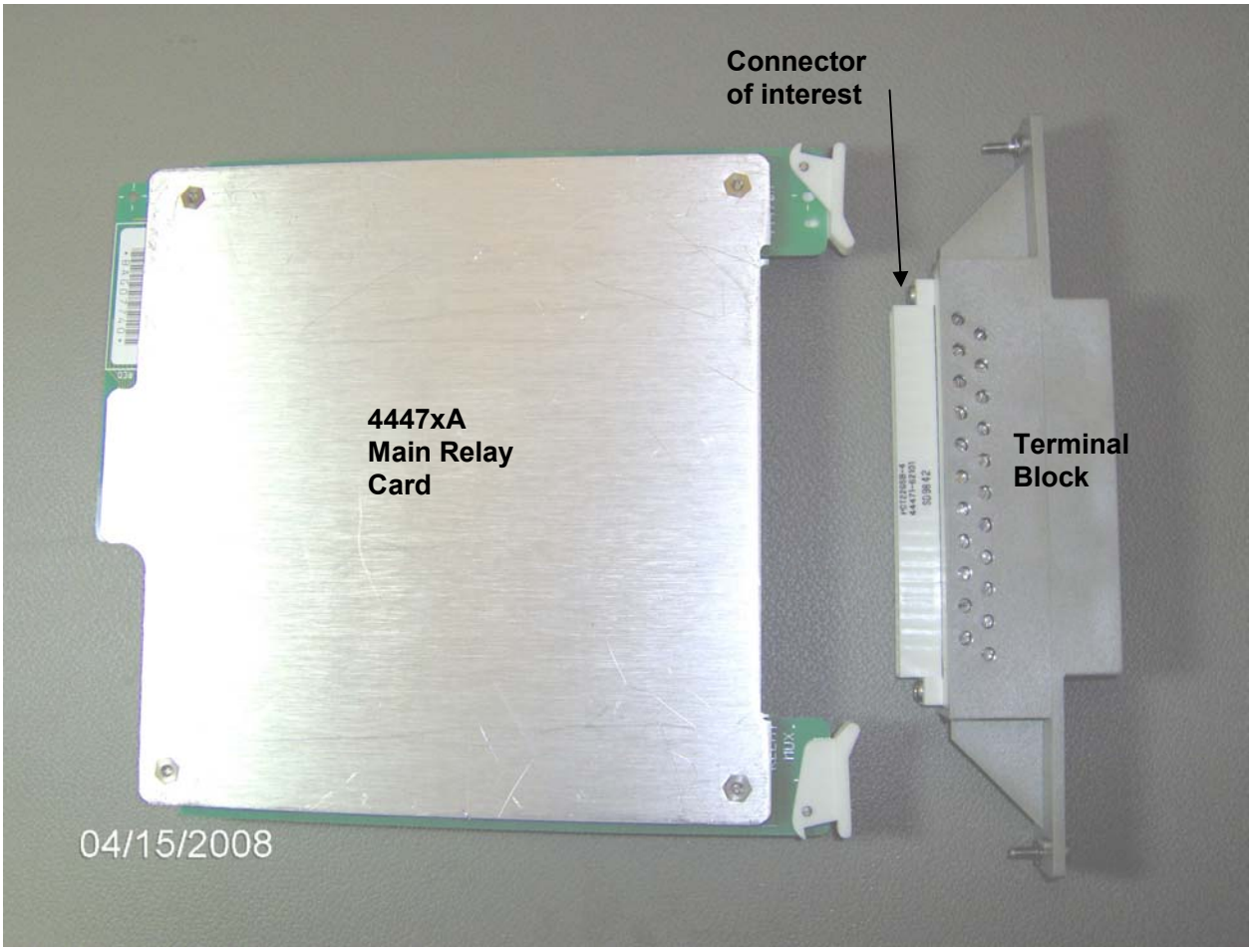


Figure 1: Main Relay Card and Terminal Block

To Be Performed By: Agilent-Qualified Personnel or Customer

Parts Required:

P/N	Description	Qty.
44470-62101	terminal block connector for 44470A	1
44471-62101	terminal block connector for 44471A	1
44473-62101	terminal block connector for 44473A	1
44474-62101	terminal block connector for 44474A	1

Situation:

The 44470A, 44471A, 44473A, and 44474A products consist of a main relay plug in module and a removable terminal block (see Figure 1). These are plug in modules for the card cage mainframes 3488A, 3499A, 3499B, and 3499C. The main relay card contains the serial number. The removable terminal module does not contain a serial number. It is possible that over time a terminal block will no longer be used with the same serialized relay card that it was shipped with A visual inspection of the connector in the removable terminal block is necessary to determine if a defective connector is present. The visual inspection should override the serial number range limits. All white colored connectors are good and have pins that alternate top to bottom (see Figure 2). A black colored connector is bad if it contains all pins on one side of the connector (see Figure 3). A black colored connector is good if it contain pins that alternate top to bottom (not pictured).

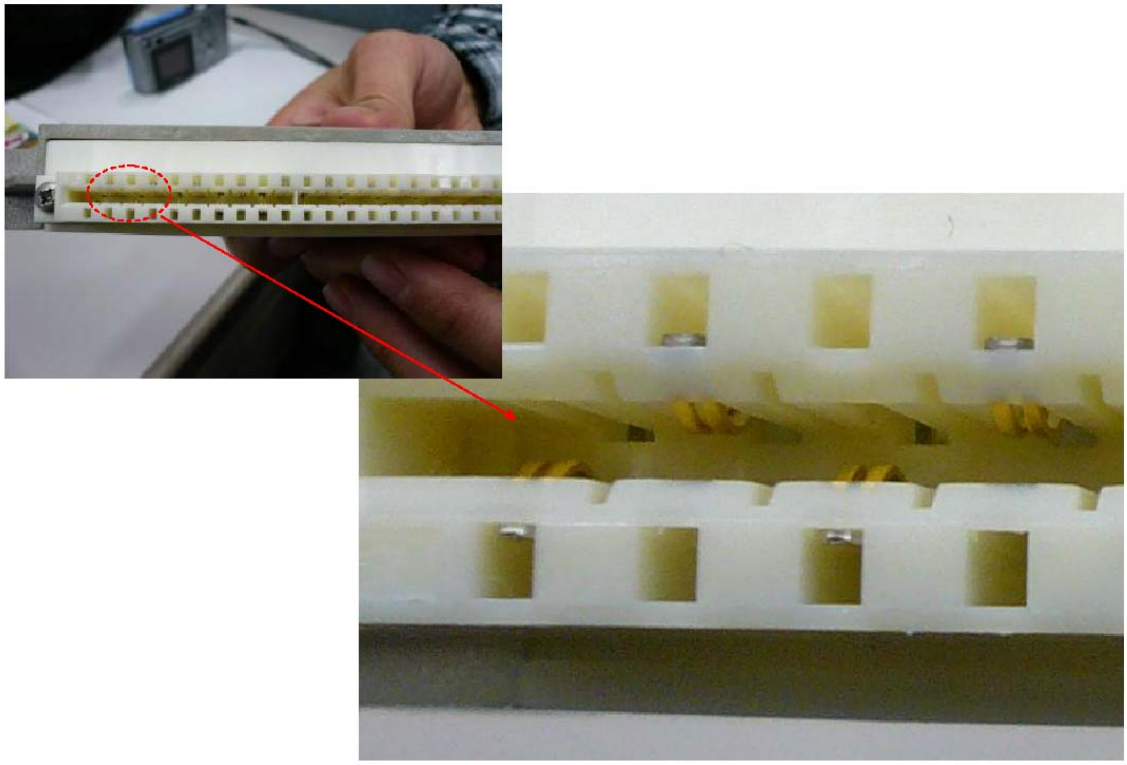


Figure 2: Good Connector with alternating pins on top and bottom

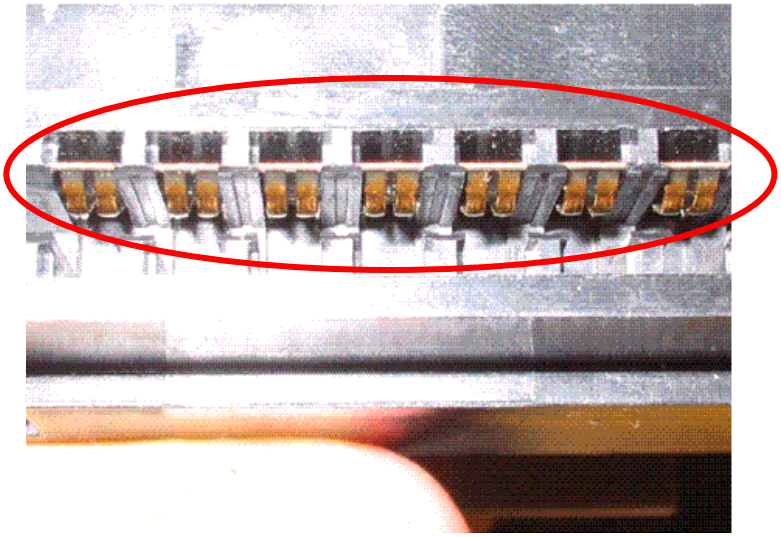
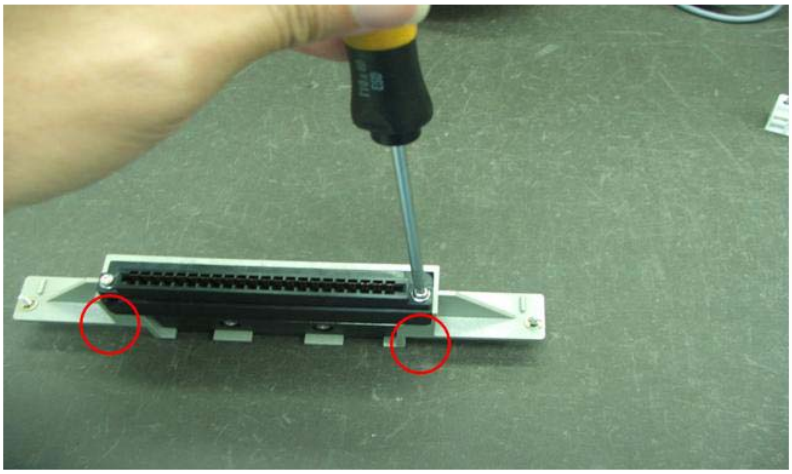


Figure 3: Defective Connector with all pins on one side

Solution/Action:
The procedure to correct the defective connectors is very simple. One must replace the defective connector with a good connector (see connector part numbers list one page 2). The customer may perform this procedure or have an Agilent-qualified person perform this procedure.

Connector Replacement Procedure: After identifying a defective connector, the connector in the terminal block is repaired by removing the two screws that hold the connector to its case. Note the orientation of the connector. This will release the connector from the terminal block and then a good one can replace it. No soldering is necessary. See Figure 4.

Rework Procedure



Note: This rework procedure is applicable to connectors of model 44470A, 44471A, 44473A, 44474A

1. Use a T10 torx driver to unscrew the 2 screws of the connector.

Figure 4: Removing defective connector from terminal block

Use the same torx driver to screw on the good connector, using the same orientation at the connector you just removed (see Figure 5).

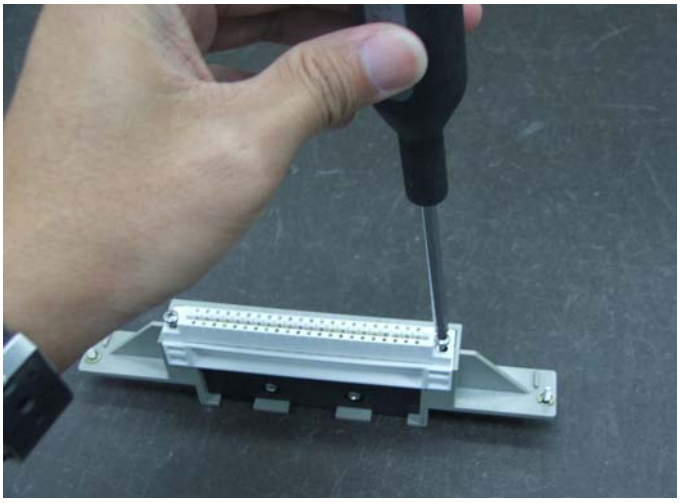


Figure 5: Good Connector attached to terminal block