

DOCUMENT TITLE: **TEST SPEC AND PROC, 2695 UNIVERSAL PCB TESTER**

SYSTEM/ASSEMBLY NAME: **2690 ALLIANCE PCBS**

PART NUMBER AFFECTED **SEE TABLE UNDER REFERENCE INFORMATION**

TEST EQUIPMENT NAME: **2690 PCB TESTER**

TEST EQUIPMENT NUMBER: **TE82510**

TEST SOFTWARE:



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DATE: **14-Jan-2003**

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EQUIPMENT REQUIRED

Quantity	Part Number	Description
1	TE82510	2690 PCB Tester

DISPOSABLES REQUIRED

Quantity	Part Number	Description
N/A	N/A	N/A

REFERENCE DOCUMENTATION

Document Number	Description
N/A	See Reference Information Table

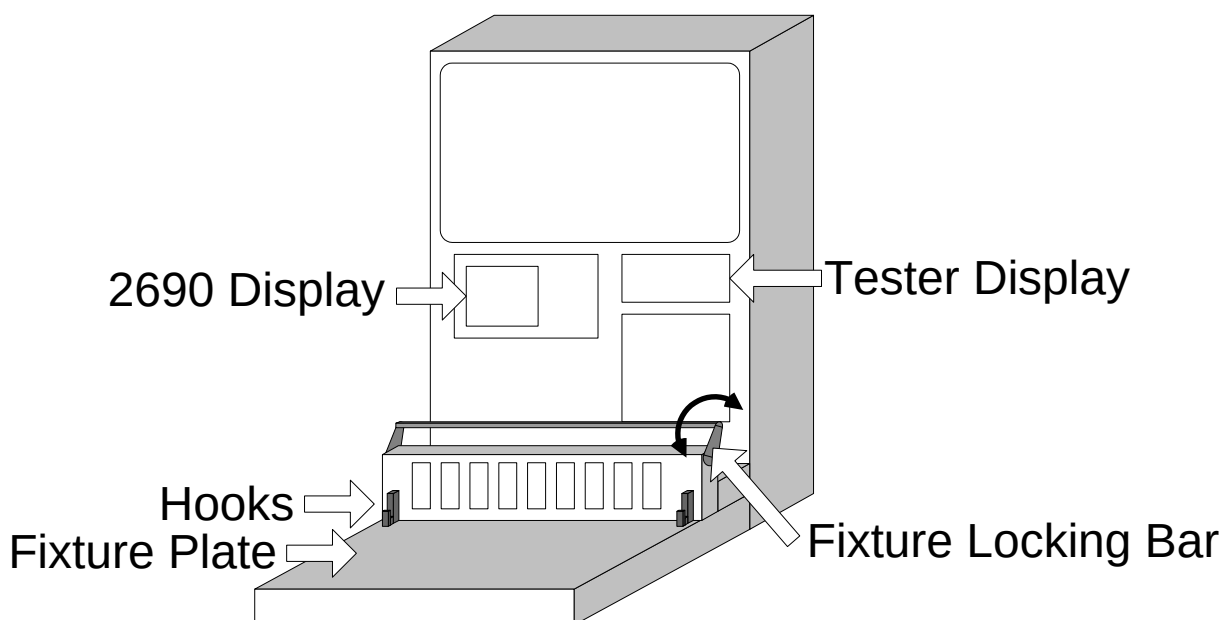
REFERENCE INFORMATION

The following table contains part numbers, fixture numbers, schematic numbers, and performance specification numbers of all PCB's currently tested on this equipment.

Board Name	Part Number	TE fixture #	Schematic	Performance
2695 CPU	210000411, 210000966	82557	710000411	810000411
2695 Pump Driver	210000425	82558	710000425	810000425
2695 Fluidic Driver	210000416	82559	710000416	810000416
2695 Front Panel	210000384	82560	710000384	810000384
2695 Heater Cooler	210000444	82697	710000444	810000444
2695 Column Heater	WAT270719	82561	WAT270721	WAT270706
2795 Column Heater	210000102	82658	710000102	735000102
2795 fluidic Driver	210000430	82649	710000430	735000430

1. TEST EQUIPMENT SETUP:

- 1.1. Connect the tester to the proper power source; refer to the label on the rear of tester.
- 1.2. Connect the vacuum port on the rear of the tester to an adequate vacuum source.
- 1.3. Connect the printer to the serial port on the rear of the tester.
- 1.4. Power up the tester, the power switch is a black rocker switch located top left on the front of the tester. The tester will power up and do a power up sum check test, this will take a few minutes.
- 1.5. The tester will then sit in a loop waiting for fixture installation.
- 1.6. See figure below for locations of basic tester controls. (Drawing simplified for clarity.)



2. INSTALLING A TEST FIXTURE

- 2.1. Make sure that the fixture-locking bar, located in the front of the tester behind the fixture plate, is close to you (vertical).
- 2.2. Select the test fixture that you would like to use.
- 2.3. Place the fixture on the fixture plate and hook it on the metal hooks.
- 2.4. Push the fixture-locking bar towards the tester slowly until in fully locked position (horizontal). The tester will automatically detect the fixture. The tester display will indicate that the tester is ready to test, with instructions.

3. TESTING PCBS

- 3.1. Place PCB to be tested (referred to as UUT) on fixture in the correct manor.
- 3.2. As instructed on the screen, press the FULL TEST button. Vacuum will actuate followed by UUT power.
- 3.3. Follow the instructions on the tester display. Upon test completion, the tester will display a message indicating pass or fail, and a failure detail message if necessary.
- 3.4. Press the ENTER button as instructed. The tester will return to the initial test page for the appropriate UUT.
- 3.5. Remove the UUT from the tester.
- 3.6. Repeat section 3 to test multiple PCB's.

4. USING UUT DIAGNOSTICS

- 4.1. Place PCB to be tested on fixture in the correct manor.
- 4.2. As instructed on the screen, press the DIAGS button. Vacuum will actuate followed by UUT power.
- 4.3. Use the arrow keys to navigate the test menu.
- 4.4. Press ENTER to start looping the selected test.
- 4.5. Press Stop to stop the test from looping.
- 4.6. Use the arrow keys to select a different test or use the STOP button to remove power and vacuum and exit diagnostics.

5. USING AND UNDERSTANDING THE KEY PAD

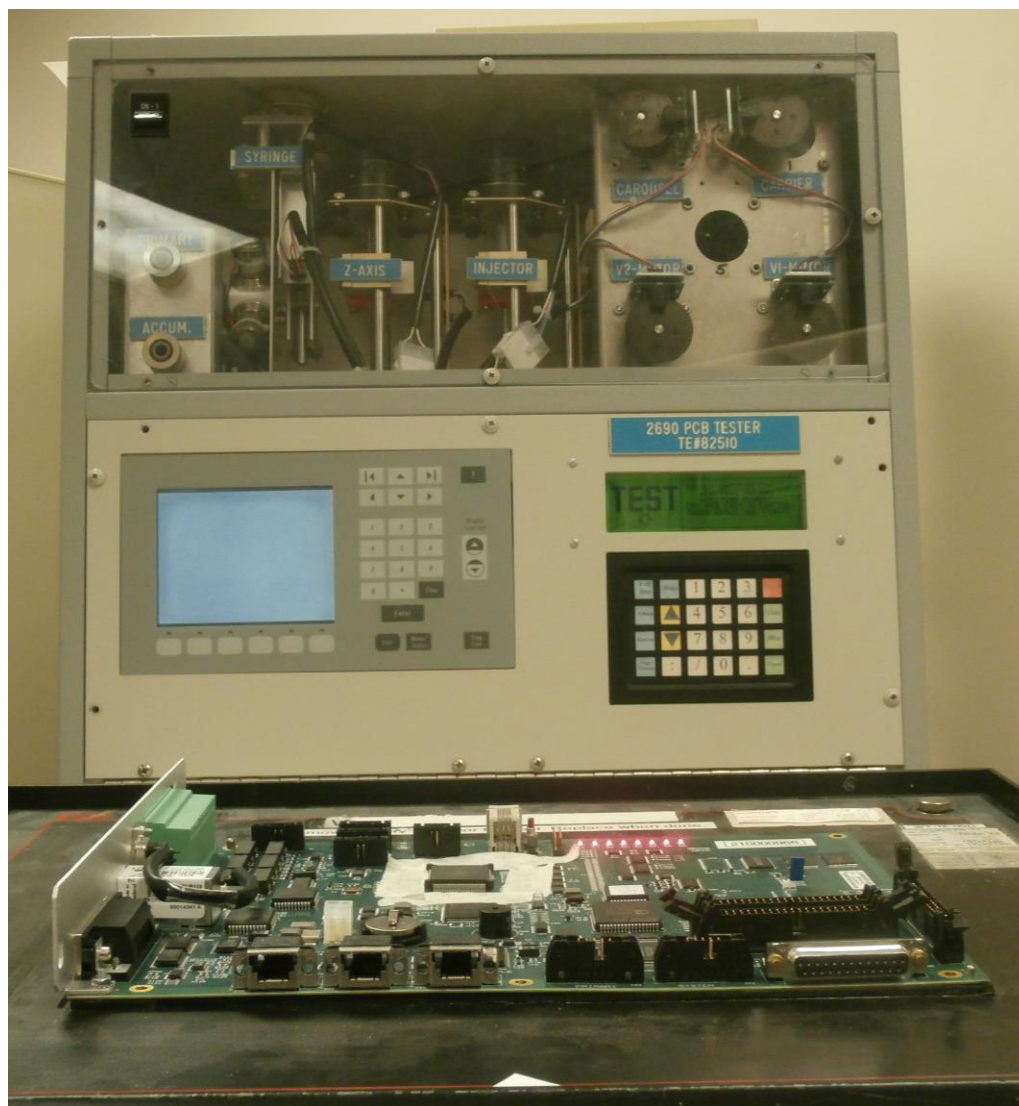
Numeric Keypad	Numeric data entry
FULL TEST	Execute complete UUT test suite
ADMIN	System maintenance
REMOTE	System development
TOGGLE VACUUM	Activates and deactivates vacuum
DIAGS	Used to loop on individual UUT tests
STOP	Stops UUT Test / Diagnostic
CLEAR	Delete or change numeric entry
NEXT	Defined for various test specific activities. Tester provides instruction.
ENTER	"Enter" numeric entries, and to acknowledge end of test.
Arrow keys	Used to navigate diagnostic menus.

6. TESTING 210000411 AND 210000966 BOARDS

The operator must ensure the proper firmware is loaded on the PCB by observing the TE82510 Test Station display, shows the proper boot-up screen for the PCB. The operator must verify this observation for each board tested. The 210000411 will display “alliance”. The 210000966 will display a blank screen. Boards not displaying these screens as shown are considered a failure and will require repair. See figures below.



210000411 showing “alliance” boot-up screen.



210000966 showing a blank boot-up screen.