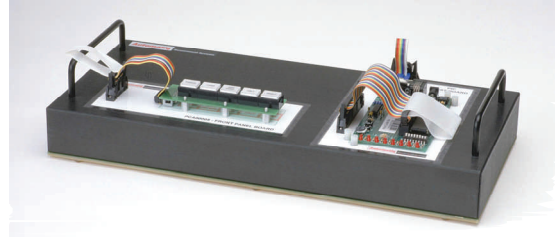


Measurement Systems

Overview

The TestFixture provides the interface between the TestStation and the Unit Under Test (UUT). Since it is interchangeable, additional TestFixtures can be provided for each board or circuit to be tested.

The TestFixture provides a place to mount the UUT (either with plug-in connectors or in a bed-of-nails fixture) and contains the wiring between the TestStation and the UUT. In addition it can house circuits to interface between the UUT and the TestStation.



Connections

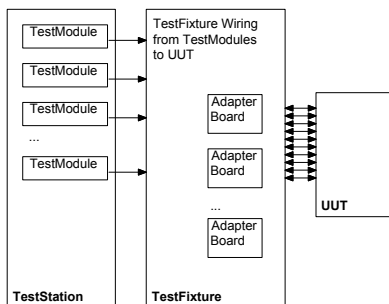
The TestFixture makes contact with the individual TestModules in the TestStation using standard Pogo Pins.



They provide reliable gold-to-gold connections that are rated for over 100,000 insertions of the TestFixture. Up to 1200 contacts can be made with the TestStation. The TestStation provides a built-in vacuum pull-down system to load the TestFixture.

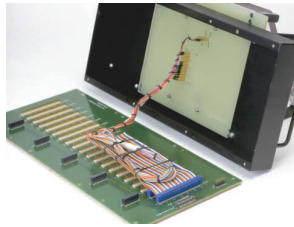
Internal Wiring

The signals from the TestStation are brought out on 60 pin dual row headers (0.025" square pins on 0.100" centers). Connections can be made with wire wrap, ribbon cable



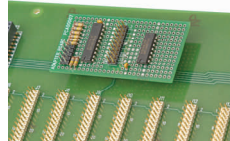
with IDC connectors, or loose wires with modular connectors.

In most cases, multicolor ribbon cables with IDC connectors provide the most versatile option. The ribbon cable can be separated and wired directly to the UUT connections.



Adapter Boards

Adapter boards provide a place for interface circuits between the UUT and the TestStation.



These circuits can be as simple as an instrument amplifier to amplify a millivolt signal or as complicated as a microprocessor to generate complex interface signals. The TestFixture has positions for up to 5 Adapter Boards. Blank Adapter Boards with an array of component mounting pads are available as well as boards with specific circuits.

UUT Connection

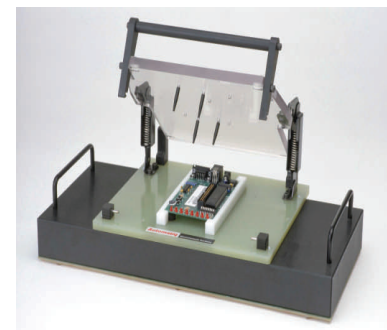
Connections to the from the TestFixture to the UUT can be made using plug-in cables or via a Versi-Traq fixture. See the *TestFixtures* section of the *Circuit-Traq PRO Reference Manual* for additional information. The best solution depends on the application.

The cable connection option provides:

- Simple and low cost connections.
- Easy access to the board for rework or debugging.
- Limited useful life for the cables and connectors.
- Slower loading of the UUT.

The Circuit-Traq fixture provides:

- Rapid loading of the UUT.
- Very long life connections.
- More complex and expensive fixturing.
- Limited access to the board for probing.
- Impossibility of making connections to the top of the board.
- Difficulty in making connections to conformal coated boards.



Versi-Traq Fixture

Inexpensive Versi-Traq Clamshell Bed-of-Nails fixtures are available. Standard size undrilled fixtures are available from Automatiq. Custom size fixtures and Ready-to-Wire fixtures are also available.

Measurement Systems

ORDERING INFORMATION

TestFixture Kits

The TestFixture Kit includes the chassis, TestFixture Interconnect Board (equipped for 5 TestModules), two blank Adapter Boards, and three TestFixture Cables along with handles and fasteners. Several versions are available:

- Standard TestFixture Kit with a blank (unpunched) chassis:

Part Number: ASY00003.01
Price: \$295.00
Availability: Stock



- Standard TestFixture Kit with a chassis punched for a standard clamshell fixture:

Part Number: ASY00003.02
Price: \$320.00
Availability: Stock

- Standard TestFixture Kit with a chassis punched for a wide clamshell fixture:

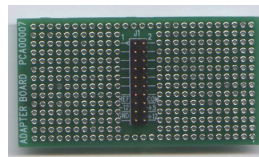
Part Number: ASY00003.03
Price: \$320.00
Availability: Stock

TestFixture Kit Accessories

Additional TestFixture Components are available:

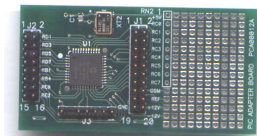
- Blank Adapter board ready for wiring:

Part Number: PCA00007
Price: \$15.00
Availability: Stock



- PIC Adapter board prewired with a PIC16F877 micro:

Part Number: PCA00012
Price: \$50.00
Availability: Stock



- TestFixture Cable (30" multicolor cable with 60 pin IDC connector for internal wiring:

Part Number: ASY00011
Price: \$15.00
Availability: Stock

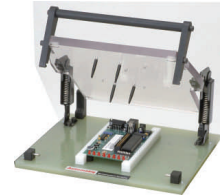


Versi-Traq Fixtures

Versi-Traq Clamshell Bed-of-Nails Fixtures are available in various sizes:

- Standard Versi-Traq fixture 8.3" x 10" suitable for 6" x 9" boards:

Part Number: ASY00023.02
Price: \$350.00
Availability: Stock to 1 week
Notes: Ready for drilling
Requires ASY00003.02



- Wide Versi-Traq fixture 8.3" x 14" suitable for 6" x 13" boards:

Part Number: ASY00023.03
Price: \$450.00
Availability: Stock to 1 week
Notes: Ready for drilling
Requires ASY00003.03

Ready-to-Wire

When purchasing Versi-Traq fixtures, most customers prefer that Automatiq provide a complete ready-to-wire fixture with holes drilled, pogo pins, guide pins, foam spacers, and push down pins installed and mounted on a TestFixture base. All this is done from the Gerbers and a test point list.

Simply fill out the Request for Quote form (SMD-00026) for a fixed price quote.

Versi-Traq Components

Automatiq can provide components for Versi-Traq fixtures including pogo pins and sockets, push down pins, and foam spacers. See the Versi-Traq Components Data Sheet (DOC-00036) for details.