

**Manufacturing
Procedure**

Procedure #:

MFG034 Rev. A

Date:

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Title:

Functional Test**Revision**

A

Description of Change

Initial Release

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Functional Test**1.0 Purpose**

- 1.1 The purpose of this procedure is to define a general and standard process for functional test.

2.0 Scope

- 2.1 This procedure is applicable to all functional testers in the Test department.

3.0 Reference

- 3.1 Customer functional test procedure.
- 3.2 SOP15 In-Process and Final Test
- 3.3 SOP22 Electrostatic Discharge Control (ESD)

4.0 Definitions

- 4.1 DUT: Device Under Test
- 4.2 PCB: Printed Circuit Board

5.0 Responsibilities

- 5.1 It is the responsibility of the Test Engineer and Manufacturing Supervisor to ensure compliance with this procedure.
- 5.2 It is the responsibility of manufacturing test operator to follow this procedure.

6.0 Equipment

- 6.1 Customer functional test hardware.

7.0 Material

- 7.1 Customer functional test program.

8.0 Records

- 8.1 The total retention period for the documents listed by Meritronics, is indicated on the Master Forms Listing under the column heading, Record Retention. When the records are no longer in an active status they will be forwarded to Document Control and filed/maintained in accordance with SOP 29.
- 8.2 Functional First Pass Yield Form PMFG204
- 8.3 Final Q.A. Inspection of Products QAP006

Title:

Functional Test**9.0 Procedure**

- 9.1 All functional tests are performed in accordance with customer provided documentation.
- 9.2 Before testing production boards, use a known good board to verify that the test station is working correctly.
- 9.3 Test each assembly.
- 9.4 Stamp the boards that passes functional test with functional test (FCT) or (FT) stamp and place them in the appropriate bin. If no room exists on the board for a stamp, then mark the edge with a permanent black marker in accordance with QAP006.
- 9.5 All boards that fail functional test shall be tagged (PMFG093) and moved to the debug area for repair and disposition.
- 9.6 After performing the functional test, Functional First Pass Yield Form (PMFG204) is to be completed. The data will be entered daily on an off line station by a designated data entry person.