

JOULE TECHNOLOGIES, INC
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Note: This document was generated to serve as a checklist for the Test Engineer to create a complete package that articulates the requirements of the fixture configuration. If there are any questions on the requirements, please do not hesitate to call. Also, please contact us if there are items we can add to this checklist or clarifications we can make. Thank you and Happy Testing.

In-Circuit Fixture Definition:

- Level 1:** Fixture is defined as any molded gasket or vacuum assisted overclamp fixture (No Switch Probes, Opens Express or Custom Wiring)
- Level 2:** Fixture is defined as any job requiring Top Side non-guided probing / Opens Express testing, or custom wiring, (e.g. load board).
- Level 3:** Dual stage, Guided Topside access, Bottomside Opens Express, side access, or any custom designed mechanisms added to fixture
- Level 4:** Job is defined as any custom pneumatic or mechanical fixture. Could be built on an existing platform such as, Agilent 3070, GenRad 228x or Spectrum.

Minimum Data Requirements Sent to Joule Technologies from the Customer

All test fixtures should have a project specification completed. This spec defines probe styles, accessories, silkscreening and other fixture specific requirements. Refer to the templates on Joule Technologies' web page for a starter template or as reference.

1. Agilent 3070:

- Level 1:** Loaded Board (Current rev.), Agilent Drill File, Agilent Wires File, Summary File
- Level 2:** Loaded Board (Current Rev.), Agilent Wires File, Agilent Drill File, Agilent TestJet Mux File (If applicable), Agilent DrillTop File
- Level 3-4:** Loaded Board (Current Rev.), Agilent Wires File, Agilent Drill File, Agilent TestJet Mux File (If applicable), Agilent DrillTop File, Current Gerber Data (Including Component Silkscreen Layer, Drill Layer and Top and Bottom Solder Mask Layer)

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2. Genrad 2272:

Level 1: Loaded Board (Current rev.), Drill File w/ tooling Data, CPT File or equivalent (Shows GR interface location with TP X&Y Coordinates), FWI File, NAR File

Level 2: Loaded Board(Current rev.), Drill File w/ tooling Data, CPT File or equivalent (Shows GR interface location with TP X&Y Coordinates), FWI File, NAR File, DPR File (If Opens Express)

Level 3-4: Loaded Board(Current rev.), Drill File w/ tooling Data, CPT File or equivalent (Shows GR interface location with TP X&Y Coordinates), FWI File, NAR File, DPR File (If Opens Express), Current Gerber Data (Including Component Silkscreen Layer, Drill Layer and Top and Bottom Solder Mask Layer)

Note: If customer does not have CPT File, we can create a wirelist by performing a Netlist extract for the Gerber data and merging it with the NAR file. Data required for this process is listed below.

- NAR File
- Gerber Files (Must include all signal, power, ground layers as well as silkscreen layers for component identification)

3. Teradyne 18XX or Spectrum:

Level 1: Loaded Board (Current rev.), Drill File w/ tooling Data, Nails.asc File from Fabmaster Directory

Level 2: Loaded Board (Current rev.), Drill File w/ tooling Data, Nails.asc File from Fabmaster Directory , Power wiring info (comes in different formats), Framescan Wiring Info (If applicable, comes in different formats)

Level 3-4: Loaded Board (Current rev.), Drill File w/ tooling Data, Nails.asc File from Fabmaster Directory , Power wiring info (comes in different formats), Framescan Wiring Info(If applicable, comes in different formats), Current Gerber Data (Including Component Silkscreen Layer, Drill Layer and Top and Bottom Solder Mask Layer)