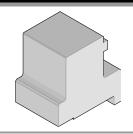
Impact™ ZX2
Daughtercard
Module Installation
Press-In Tool



Application Tooling Specification Sheet



Order No. 62203-0035

FEATURES

- Lip provided for positive alignment to connector assembly.
- Tool provides uniform distribution of press force across entire pin array.
- May be used as a stand-alone tool or mounted in an optional holder with other Molex press-in tools.

SCOPE

<u>Products</u>: Impact™ ZX2 Ortho Direct Ram Module Assembly (4-Pair by 10 Column Assemblies). See Product List below for specific part numbers.

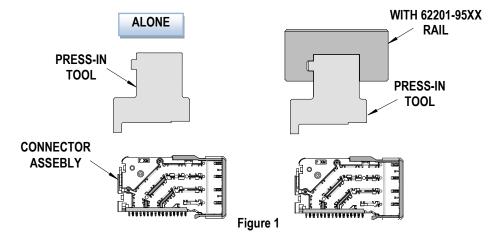
Product List

The following is a partial list of the product order numbers and their specifications this tool is designed to run. Updates to this list are available on www.molex.com.

| Series No. | Guide Style | Columns | Assembly Order Number |
|------------|-------------|---------|-----------------------|
| 172699 | Unguided | 10 | 172699-1020 |
| | Left | 10 | 172699-3020 |
| | Right | 10 | 172699-5020 |

Tool Setup

Depending on the number of connectors to be installed and/or the press used, this tool can be used alone or with a group of press-in tools, mounted in a 62201-95XX rail (ordered separately). See Figure 1.



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Tool Installation

The 62201-95XX rail is available in a variety of lengths to accommodate multiple press-in tools.

| Rail Part Number | Rail Overall Length |
|------------------|---------------------|
| 62201-9501 | 24mm (0.94 in) |
| 62201-9502 | 72mm (2.83 in) |
| 62201-9503 | 156mm (6.14 in) |
| 62201-9504 | 216mm (8.50 in) |
| 62201-9509 | 254mm (10.0 in) |
| 62201-9511 | 305mm (12.0 in) |

Reference: This Press-In Tool is 18.9mm (0.744 in.) long.

Printed Circuit Board (PCB) Support

The Impact[™] connectors require up to 3.6kg (8 lb) of force per pin to press into the PCB. To prevent excessive PCB flexure and/or damage to the PCB, a support plate is strongly recommended directly beneath the connector hole pattern.

Due to the custom nature of every application, Molex does not offer any PCB support plate. The customer must furnish their own support plate.

When creating the PCB support plate, remember to allow clearance for the connector pins as they pass through the PCB thickness.

Press Equipment Recommendations

Many types of presses can be used to install Impel connectors, but to assure consistent connector installation Molex recommends the following press criteria:

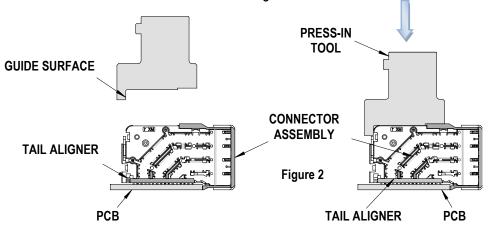
- 1. The capability to detect force variations as low as 4.5kg (10 lb) during the press-in cycle; excessive force measurements should stop the press-in cycle.
- 2. The rate of pressing can be regulated as low as 0.13mm (0.005 in) per second.
- 3. Press stroke control to within 0.25mm (0.010 in).
- 4. Total press stroke must be at least 19mm (0.75 in).
- 5. For statistical purposes, automatic collection of force and distance data.

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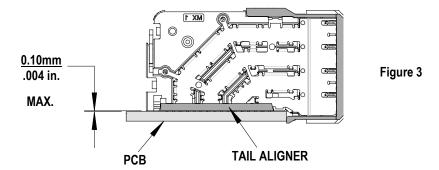
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Tool Operation

- 1. Carefully insert, by hand, the Ortho Direct Ram module(s) into the PCB hole pattern.
- 2. Place the application tool on top of the Ortho Direct Ram module with the back guide surface of the tool against the back of the Ortho Direct Ram module. See Figure 2.



3. Using the application tool and an appropriate press, seat the Ortho Direct Ram module until there is less than 0.10mm (.004) in clearance between the bottom of the aligner and the surface of the PCB. See Figure 3.



There should be no broken stand-offs along the perimeter of the part (an indication of over-pressing).

CAUTION: To prevent injury, never operate any press without the guards in place. Refer to the press manufacturer's instruction manual.

CAUTION: Molex application tooling specifications are valid only when used with Molex connectors and tooling.

Contact Information

For more information on Molex application tooling please contact Molex at 1-800-786-6539.

Visit our Web site at http://www.molex.com

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