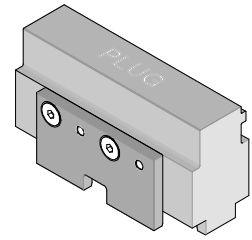**NeoPress
Plug Assembly
Press-In Tool**

molex®

**Application Tooling
Specification Sheet**

Order No. 62203-1300

FEATURES
- 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
- For plug extraction, use tool 62203-1320

SCOPE
Products: NeoPress Plug Assembly, (6-Pair by 14 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.	Column	Height	Plug Assembly Order No.
172801	14	13.5mm	172801-0001

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.
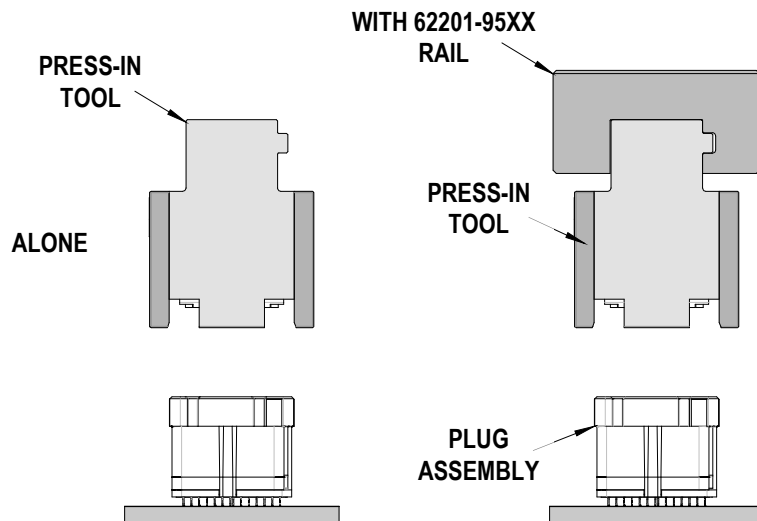

WITH 62201-95XX RAIL

PRESS-IN TOOL

ALONE

PRESS-IN TOOL

PLUG ASSEMBLY

Figure 1

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
62201-9502	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: The 62203-1300 Press-In Tool is 60mm (2.36 in.) long.

Printed Circuit Board (PCB) Support

The NeoPress plug requires a significant force to press the assembly 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 the NeoPress plug, 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.

PRESS-IN TOOL

PCB

Figure 2

PLUG ASSEMBLY

Tool Operation

1. By hand, insert the plug assembly carefully into the PCB hole pattern. Make sure the connector is oriented properly by confirming the location of the #1 circuit indicator with respect to the PCB layout.
2. Insert the Press-In Tool over the top of the connector housing until it rests on the connector. The tool is symmetric and can be placed two ways without damage to the connector. See Figure 2.
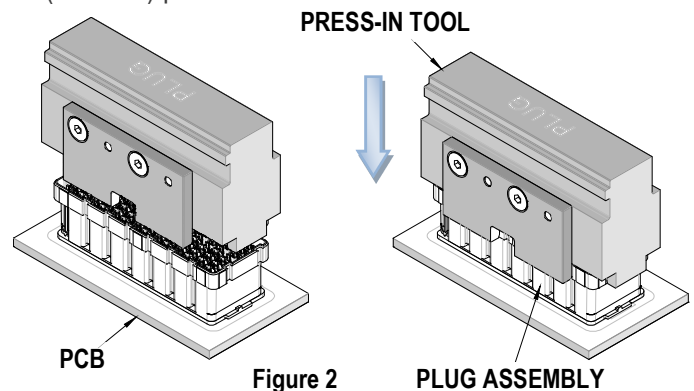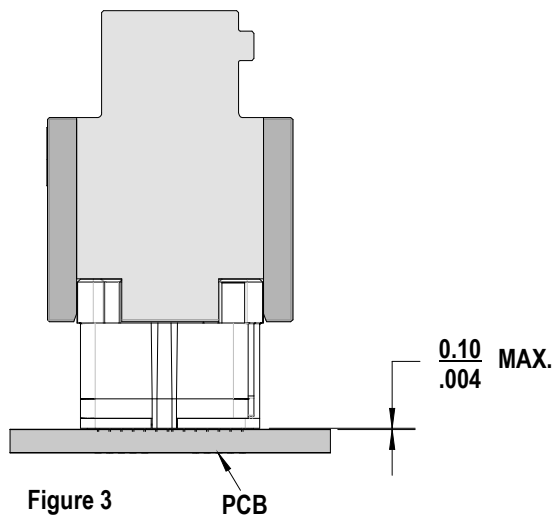
3. Using the application tool and an appropriate press, seat the plug assembly until there is less than 0.10mm (.004 in) clearance between the bottom of the plastic housing and the surface of the PCB. See Figure 3.

$$\frac{0.10}{.004} \text{ MAX.}$$

Figure 3   **PCB**

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.

Application Tooling Support

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