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Press-In Tool for EdgeLine™ ESP

EdgeLine™ ESP Press-Tool	 Application Tooling Specification Sheet	 Order No. 62201-8819
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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.
- Use tool 62100-6800 for removing connectors

SCOPE

Products: EdgeLine™ ESP 54 Circuit Assemblies, 0.8mm Pitch for 0.062"PCB 76861 Series.

See Product List below for specific application tools.

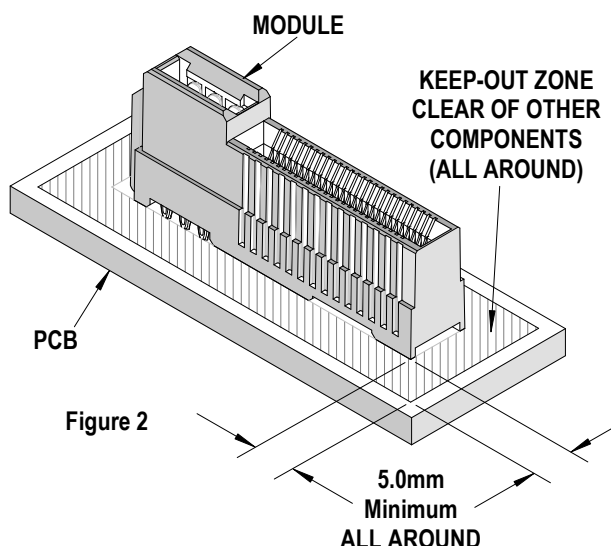
Product List

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

Assembly Order Number				Description
76861-0012	76861-0013	76861-1120	76861-1130	EdgeLine™ ESP 54 Circuit

Tool Restrictions

The tooling arrangement in this removal tool is determined by the module and component placement on the PCB. There is a "Keep-Out Zone" that needs to be clear of the other components when using some of the tool arrangements. See Figure 2. For more information see Molex drawing number SD-76861-120.

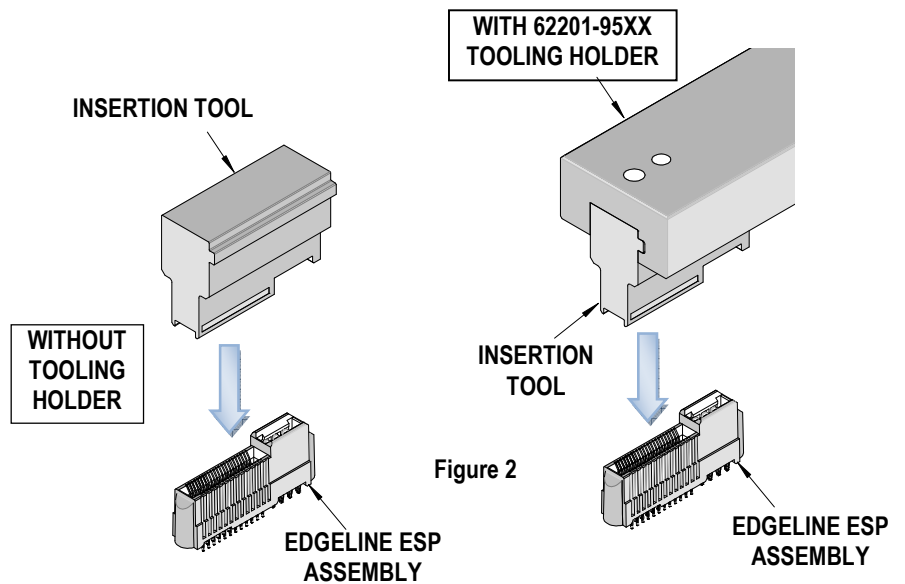


Press-In Tool for EdgeLine™ ESP

Tool Setup

The insertion tool can be mounted in a 62201-95XX tool holder rail (ordered separately). See Figure 2.

The 62201-95XX rail is available to accommodate this press-in tool:



Tooling Holder Part Number	Tooling Holder Overall Length
62201-9502	72mm (2.83 in)

Reference: This tool Press-In Tool is 39.3mm (1.55 in.) long.

Printed Circuit Board (PCB) Support

The EdgeLine™ connector requires significant insertion 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 and guide connector pegs as they pass through the PCB thickness.

Press Equipment Recommendations

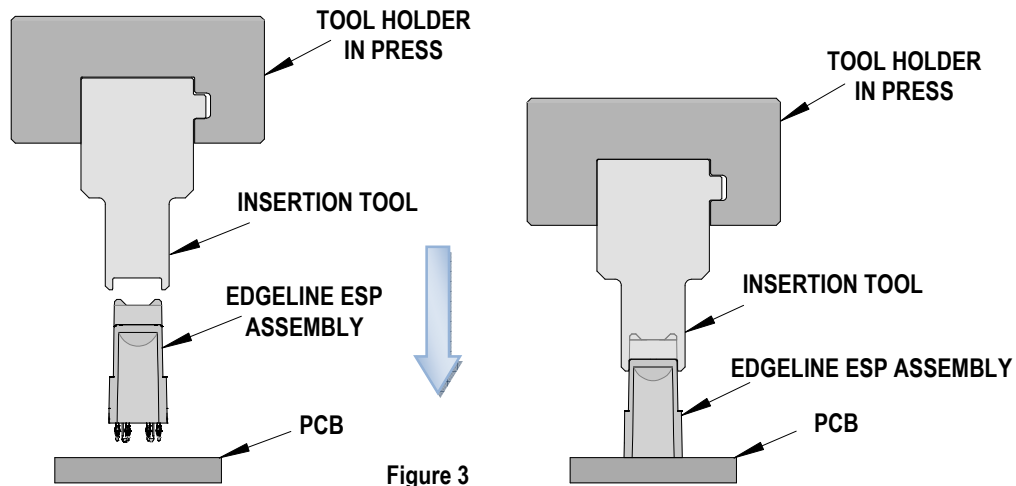
Many types of presses can be used to install connectors, but to assure consistent connector installation Molex recommends the following press criteria:

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 (0.005in) per second.
3. Press stroke control to within 0.25mm (0.010in).
4. Total press stroke must be at least 19mm (0.75in).
5. For statistical purposes, automatic collection of force and distance data.

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Tool Operation

1. Carefully insert, by hand, the connector into the PCB hole pattern.
2. Place the insertion tool on top of power connector. The two side guide surfaces of the tool should be in line with the side walls of the connector. See Figure 3.
3. Using the insertion tool and an appropriate press, seat the power connector until the bottom of the plastic housing and the surface of the PCB is flush as shown below.



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>