

# **High Speed Edge Card Press-In Tool Instruction Sheet** Order No. 62201-7300



### **FEATURES**

- Lip provided for terminal support during pressing.
- 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 62100-6200 for removing connectors.

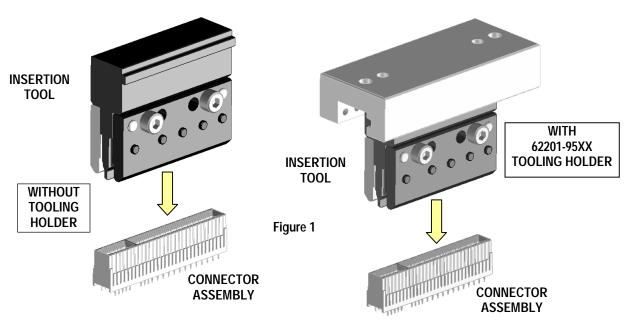
#### **SCOPE**

Products: High Speed Edge Card 108 Circuit Assembly 76421 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.

Connector Order Number	Description	
76421-1000	High Speed Edge Card 108 Circuit Assembly	



## **Tool Setup**

The insertion tool is mounted in a 62201-95XX tool holder rail (ordered separately). See Figure 1.

**UNCONTROLLED COPY** Doc No: ATS-622017300 Release Date: 03-31-08 Page 1 of 4 Revision Date: 03-31-08

Revision: A

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

<b>Tooling Holder Part Number</b>	Tooling Holder Overall Length	
62201-9502	72mm (2.83 in)	

Reference: The 62201-7300 Press-In Tool is 48mm (1.89 in.) long.

### **Printed Circuit Board (PCB) Support**

The High Speed Edge Card connector requires up to 2.7kg (6 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 and guide pegs as they pass through the PCB thickness.

### **Press Equipment Recommendations**

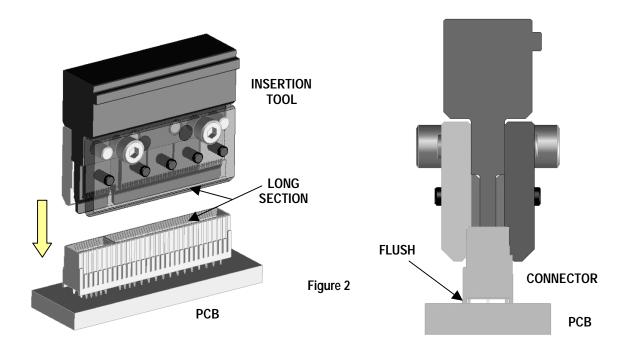
Many types of presses can be used to install connectors, but to assure consistent connector installation Molex recommends the following press criteria:

- 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.

Doc No: ATS-622017300 Release Date: 03-31-08 Page 2 of 4 Revision Date: 03-31-08 Revision: A

### **Tool Operation**

- 1. By hand, carefully start the connector tails into the PCB holes.
- 2. Place the insertion tool into the connector. Note that the center blade of the tool has a long section and a short section that matches the connector entry. See Figure 2.
- 3. Using the insertion tool and an appropriate press, seat the power module 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.

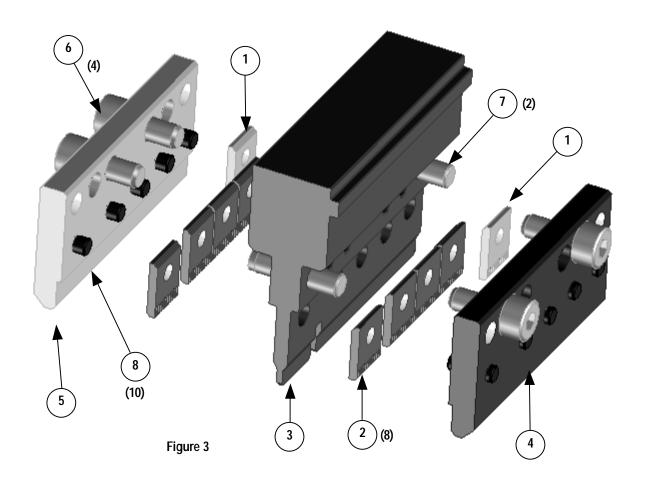
**CAUTION**: Molex application tooling specifications are valid only when used with Molex connectors and tooling.

Doc No: ATS-622017300 Release Date: 03-31-08 Page 3 of 4 Revision: A Revision Date: 03-31-08

### **PARTS LIST**

Item	Order No	Description	Quantity	
	62201-7300	Press-In Tool for High Speed Edge Card	Figure 3	
1	62201-7301	Blade, 10 position	2	
2	62201-7302	Blade, 11 position	8	
3	62201-7303	Center Support Blade	1	
4	62201-7304	Clamp Plate, LH	1	
5	62201-7305	Clamp Plate, RH	1	
6	N/A	M4 by 10 Long SHCS	4**	
7	N/A	4mm Diameter by 16 Long Dowel Pin	2**	
8	N/A	3mm Diameter by 8 Long Dowel Pin	10**	
** Available from an industrial supply company such as MSC (1-800-645-7270).				

# **Assembly Drawing**



Americas Headquarters Lisle, Illinois 60532 U.S.A. 1-800-78MOLEX amerinfo@molex.com Far East North Headquarters Yamato, Kanagawa, Japan 81-462-65-2324 feninfo@molex.com Far East South Headquarters Jurong, Singapore 65-6-268-6868 fesinfo@molex.com European Headquarters Munich, Germany 49-89-413092-0 eurinfo@molex.com

Corporate Headquarters 2222 Wellington Ct. Lisle, IL 60532 U.S.A. 630-969-4550 Fax: 630-969-1352

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

Doc No: ATS-622017300 Release Date: 03-31-08 **UNCONTROLLED COPY** Page 4 of 4 Revision: A Revision Date: 03-31-08