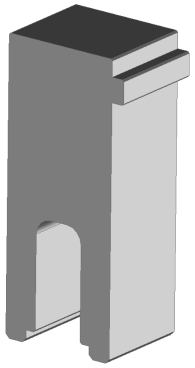
LPH Vertical Receptacle
Press-In Tool Instruction Sheet
Order No. 62201-8672



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 62100-6300 for removing power terminals

SCOPE

Products: LPH Vertical Receptacle Assemblies (46114 Series). See Product List below for specific order numbers.

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
46114-2120	2 power by 12 signal with interlock and guide posts
46114-2121	2 power by 12 signal with interlock
46114-2160	2 power by 16 signal with interlock and guide posts
46114-2161	2 power by 16 signal with interlock
46114-2320	2 power by 32 signal with interlock and guide posts
46114-2321	2 power by 32 signal with interlock
46114-2360	2 power by 36 signal with interlock and guide posts
46114-2361	2 power by 36 signal with interlock
46114-4120	4 power by 12 signal with interlock and guide posts
46114-4121	4 power by 12 signal with interlock
46114-4160	4 power by 16 signal with interlock and guide posts
46114-4161	4 power by 16 signal with interlock
46114-4320	4 power by 32 signal with interlock and guide posts
46114-4321	4 power by 32 signal with interlock
46114-4360	4 power by 36 signal with interlock and guide posts
46114-4361	4 power by 36 signal with interlock
46114-6120	6 power by 12 signal with interlock and guide posts
46114-6121	6 power by 12 signal with interlock
46114-6160	6 power by 16 signal with interlock and guide posts
46114-6161	6 power by 16 signal with interlock

Connector Order Number	Description
46114-6320	6 power by 32 signal with interlock and guide posts
46114-6321	6 power by 32 signal with interlock
46114-6360	6 power by 36 signal with interlock and guide posts
46114-6361	6 power by 36 signal with interlock
46114-8120	8 power by 12 signal with interlock and guide posts
46114-8121	8 power by 12 signal with interlock
46114-8160	8 power by 16 signal with interlock and guide posts
46114-8161	8 power by 16 signal with interlock
46114-8320	8 power by 32 signal with interlock and guide posts
46114-8321	8 power by 32 signal with interlock
46114-8360	8 power by 36 signal with interlock and guide posts
46114-8361	8 power by 36 signal with interlock
46114-1012	10 power by 12 signal with interlock and guide posts
46114-1013	10 power by 12 signal with interlock
46114-1016	10 power by 16 signal with interlock and guide posts
46114-1017	10 power by 16 signal with interlock
46114-1032	10 power by 32 signal with interlock and guide posts
46114-1033	10 power by 32 signal with interlock
46114-1036	10 power by 36 signal with interlock and guide posts
46114-1037	10 power by 36 signal with interlock

Connector Order Number	Description
46114-1212	12 power by 12 signal with interlock and guide posts
46114-1213	12 power by 12 signal with interlock
46114-1216	12 power by 16 signal with interlock and guide posts
46114-1217	12 power by 16 signal with interlock
46114-1232	12 power by 32 signal with interlock and guide posts
46114-1233	12 power by 32 signal with interlock
46114-1236	12 power by 36 signal with interlock and guide posts
46114-1237	12 power by 36 signal with interlock

Connector Order Number	Description
46114-1412	14 power by 12 signal with interlock and guide posts
46114-1413	14 power by 12 signal with interlock
46114-1416	14 power by 16 signal with interlock and guide posts
46114-1417	14 power by 16 signal with interlock
46114-1432	14 power by 32 signal with interlock and guide posts
46114-1433	14 power by 32 signal with interlock
46114-1436	14 power by 36 signal with interlock and guide posts
46114-1437	14 power by 36 signal with interlock

Note: Connector assemblies with 20, 24, 28, or 40 circuit signal require additional tooling. See ATS-622018671 for details.

Tool Setup

The insertion tools are mounted in a 62201-95xx tool holder rail (ordered separately). See Figure 1.

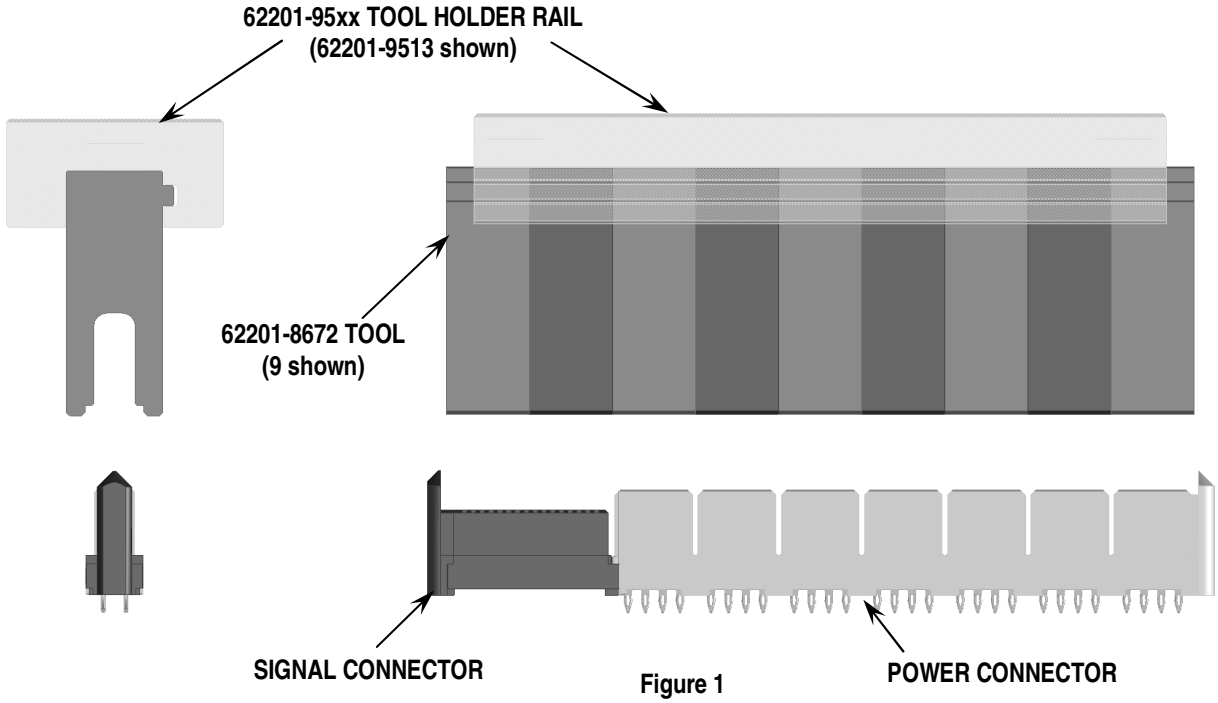


Figure 1

Note that there is one press-in tool for every two power positions (In figure 1, seven press-in tools for 14 powers). The signal modules require the following press-in tool quantities:

Signal Module Size	Number of 62201-8672 Press-In Tools
12	one
16	one
32	two
36	two

Note: For sizes 20, 24, 28, or 40 use press-in tool 62201-8671.

The 62201-8672 press-in tool is 12mm (0.47") wide. Determine the total number of press-in tools needed and use the nearest length tool holder rail:

Tooling Holder Part Number	Tooling Holder Overall Length
62201-9501	24mm (0.94 in)
62201-9502	72mm (2.83 in)
62201-9503	156mm (6.14 in)
62201-9513	100mm (3.94 in)

Printed Circuit Board (PCB) Support

The LPH Vertical Receptacle connector requires significant force 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 if 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.

Tool Operation

1. Carefully insert, by hand, the connector into the PCB hole pattern.
2. Place the insertion tool on top of the connector. The two pressing surfaces of the tool should rest on the shoulders of the connector housing. See Figure 2.
3. Using the insertion tool and an appropriate press, seat the connector until the bottom of the plastic housing contacts the surface of the PCB.

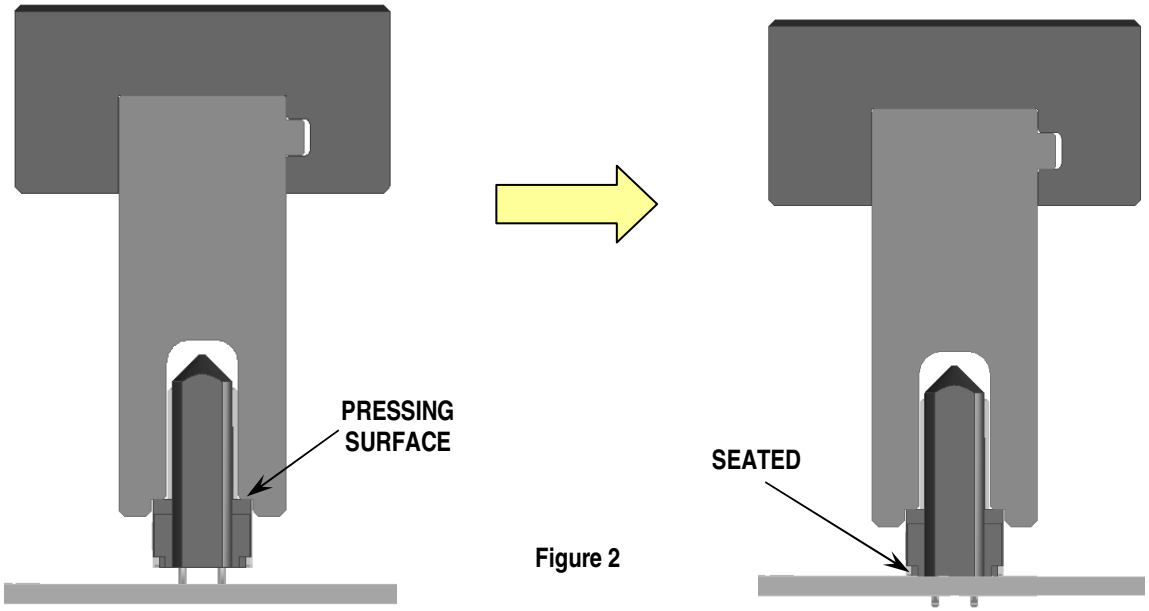


Figure 2

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.

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