

LPH Vertical Receptacle Power Terminal Removal Tool Instruction Sheet Order No. 62100-6300



FEATURES

- This tool is designed to remove the power terminals from the PC board after the connector housing is removed.
- Removes terminals without damage to the board or holes.

SCOPE

Products: LPH Vertical Receptacle 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.

| 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 | |
| 46114-2200 | 2 power by 20 signal with interlock and guide posts | |
| 46114-2201 | 2 power by 20 signal with interlock | |
| 46114-2240 | 2 power by 24 signal with interlock and guide posts | |
| 46114-2241 | 2 power by 24 signal with interlock | |
| 46114-2280 | 2 power by 28 signal with interlock and guide posts | |
| 46114-2281 | 2 power by 28 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 | |
| 46114-2400 | 2 power by 40 signal with interlock and guide posts | |
| 46114-2401 | 2 power by 40 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 | |
| 46114-4200 | 4 power by 20 signal with interlock and guide posts | |

| Connector | | |
|--------------|--|--|
| Order Number | Description | |
| 46114-4201 | 4 power by 20 signal with interlock | |
| 46114-4240 | 4 power by 24 signal with interlock | |
| | and guide posts | |
| 46114-4241 | 4 power by 24 signal with interlock | |
| 46114-4280 | 4 power by 28 signal with interlock | |
| | and guide posts | |
| 46114-4281 | 4 power by 28 signal with interlock | |
| 46114-4320 | 4 power by 32 signal with interlock | |
| 101111020 | and guide posts | |
| 46114-4321 | 4 power by 32 signal with interlock | |
| 46114-4360 | 4 power by 36 signal with interlock | |
| 10111 1001 | and guide posts | |
| 46114-4361 | 4 power by 36 signal with interlock | |
| 46114-4400 | 4 power by 40 signal with interlock | |
| 46114-4401 | and guide posts | |
| 40114-4401 | 4 power by 40 signal with interlock 6 power by 12 signal with interlock | |
| 46114-6120 | and guide posts | |
| 46114-6121 | 6 power by 12 signal with interlock | |
| 101110121 | 6 power by 16 signal with interlock | |
| 46114-6160 | and guide posts | |
| 46114-6161 | 6 power by 16 signal with interlock | |
| 46114-8200 | 8 power by 20 signal with interlock | |
| | and guide posts | |
| 46114-8201 | 8 power by 20 signal with interlock | |
| 46114-8240 | 8 power by 24 signal with interlock | |
| | and guide posts | |
| 46114-8241 | 8 power by 24 signal with interlock | |
| 46114-8280 | 8 power by 28 signal with interlock | |
| | and guide posts | |
| 46114-8281 | 8 power by 28 signal with interlock | |

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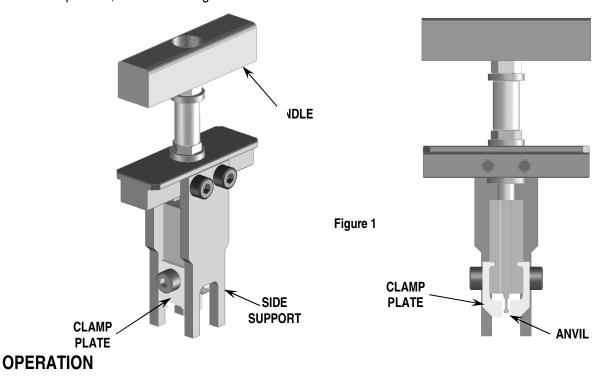
| Connector Order Number | Description | |
|---------------------------|--|--|
| 46114-6320 | 6 power by 32 signal with interlock and guide posts | |
| 46114-6321 | 6 power by 32 signal with interlock | |
| 46114-6360 | 6 power by 36 signal with interlock and guide posts | |
| 46114-6361 | 6 power by 36 signal with interlock | |
| 46114-6400 | 6 power by 40 signal with interlock and guide posts | |
| 46114-6401 | 6 power by 40 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 | |
| 46114-8200 | 8 power by 20 signal with interlock and guide posts | |
| 46114-8201 | 8 power by 20 signal with interlock | |
| 46114-8240 | 8 power by 24 signal with interlock and guide posts | |
| 46114-8241 | 8 power by 24 signal with interlock | |
| 46114-8280 | 8 power by 28 signal with interlock and guide posts | |
| 46114-8281 | 8 power by 28 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 | |
| 46114-8400 | 8 power by 40 signal with interlock and guide posts | |
| 46114-8401 | 8power by 40 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 | |
| 46114-1020 | 10 power by 20 signal with interlock and guide posts | |
| 46114-1021 | 10 power by 20 signal with interlock | |
| 46114-1024 | 10 power by 24 signal with interlock and guide posts | |
| 46114-1025 | 10 power by 24 signal with interlock | |
| 46114-1028 | 10 power by 28 signal with interlock and guide posts | |
| 46114-1029 | 10 power by 28 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 |
|---|---------------------------|--|
| | 46114-1040 | 10 power by 40 signal with interlock and guide posts |
| | 46114-1041 | 10 power by 40 signal with interlock |
| | 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 |
| | 46114-1220 | 12 power by 20 signal with interlock and guide posts |
| | 46114-1221 | 12 power by 20 signal with interlock |
| - | 46114-1224 | 12 power by 24 signal with interlock and guide posts |
| | 46114-1225 | 12 power by 24 signal with interlock |
| | 46114-1228 | 12 power by 28 signal with interlock and guide posts |
| | 46114-1229 | 12 power by 28 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 |
| | 46114-1240 | 12 power by 40 signal with interlock and guide posts |
| | 46114-1241 | 12 power by 40 signal with interlock |
| | 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 |
| | 46114-1420 | 14 power by 20 signal with interlock and guide posts |
| | 46114-1421 | 14 power by 20 signal with interlock |
| | 46114-1424 | 14 power by 24 signal with interlock and guide posts |
| ļ | 46114-1425 | 14 power by 24 signal with interlock |
| | 46114-1428 | 14 power by 28 signal with interlock and guide posts |
| ļ | 46114-1429 | 14 power by 28 signal with interlock |
| | 46114-1432 | 14 power by 32 signal with interlock and guide posts |
| ļ | 46114-1433 | 14 power by 32 signal with interlock |
| | 46114-1436 | 14 power by 36 signal with interlock and guide posts |
| ļ | 46114-1437 | 14 power by 36 signal with interlock |
| | 46114-1440 | 14 power by 40 signal with interlock and guide posts |
| | 46114-1441 | 14 power by 40 signal with interlock |

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DESCRIPTION

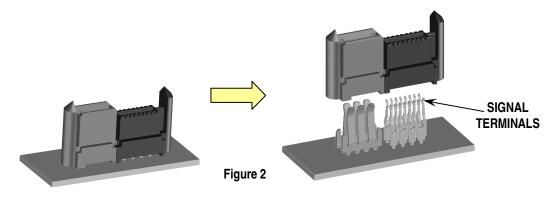
The LPH Power Terminal Removal Tool clamps a pair of power terminals against an anvil then lifts the terminals out of the PCB using a screw-driven slide. The Terminal Removal Tool is shipped with the terminal clamp plates in the closed position, as shown in Figure 1.



Note: Be sure that all parts of the Removal Tool will clear any components on the printed circuit board during use. Tape may also be placed over circuit traces or on the bottom of the side supports for added protection of the printed circuit board.

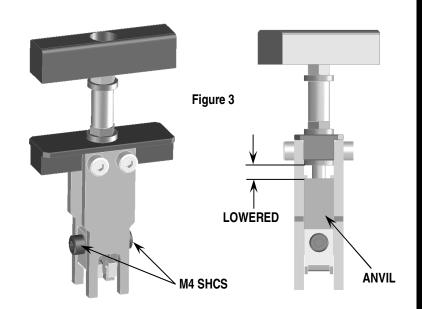
1. Remove the connector housing by gripping it with a pair of pliers and pulling it up from the terminals. For larger assemblies, the housing may have to be pulled up gradually. See Figure 2.

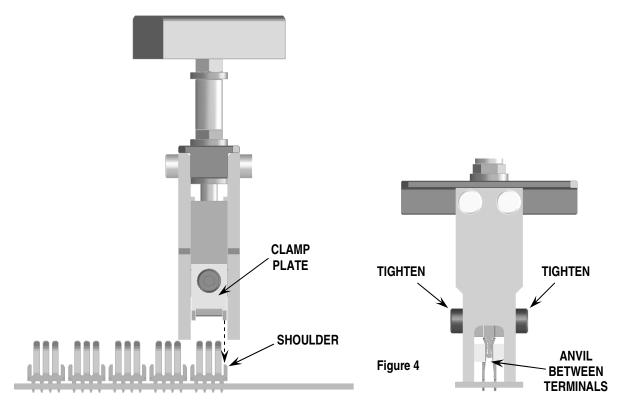
Caution: Care must be taken during this procedure to prevent bending of the terminals that are left in place in the printed circuit board.



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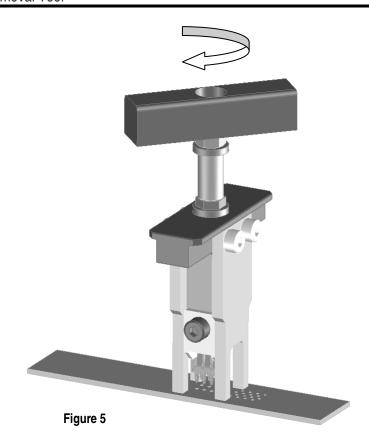
- 2. Use a needle-nose pliers to remove any signal terminals left in the PCB.
- 3. Using a 3mm hex key, loosen the M4 SHCS holding the clamp plates. See Figure 3.
- 4. Before placing the Terminal Removal Tool into the terminals make sure the anvil is lowered. See Figure 3.
- 5. Position the Anvil Block between terminal rows. The clamp plate bottom rests on top of the terminal shoulder. See Figure 4.
- 6. Using a 3mm hex key, tighten the (2) clamp plates. The clamp plates fit into a key slot in the anvil. Tighten the M4 SHCS so that the clamp plates "bite" into the terminals. Do not over tighten. See Figure 4.





- 7. Position the Terminal Removal Tool so that the (2) side supports are resting on the printed circuit board.
- 8. Turn T-handle (CW) clockwise, making sure the threaded shaft goes into the threaded hole on top of the anvil.
- 9. Continue turning the T-Handle until the terminals lift up and are removed from the printed circuit board. See Figure 5.
- 10. Move the Removal Tool away from the printed circuit board. Then remove the terminals from the Removal Tool by loosening the M4 SHCS on the clamp plates and pulling out the terminals.

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Maintenance

It is recommended that each operator of the tool be made aware of, and responsible for, the following maintenance steps:

- 1. Remove dust, moisture, and other contaminants with a clean brush, or soft, lint free cloth.
- 2. Do not use any abrasive materials that could damage the tool.
- 3. Make certain all pins; pivot points and bearing surfaces are protected with a thin coat of high quality machine oil. Do not oil excessively.
- 4. When tool is not in use, store in a clean, dry area.

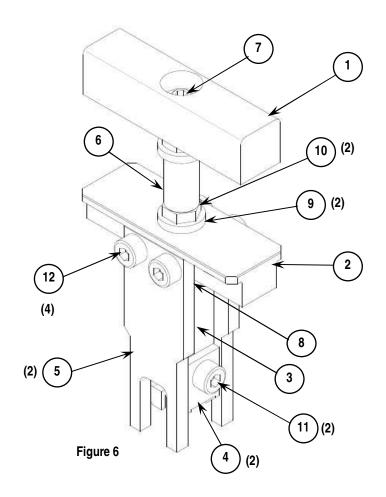
CAUTION: Molex specifications are valid only when used with Molex terminals, applicators and tooling.

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PARTS LIST

| Item | Order No | Description | Quantity | |
|--|------------|---------------------------------|----------|--|
| | 62100-6300 | LPH Power Terminal Removal Tool | Figure 6 | |
| 1 | 62100-6204 | T Handle | 1 | |
| 2 | 62100-6301 | Spacer Plate | 1 | |
| 3 | 62100-6303 | Anvil Block | 1 | |
| 4 | 62100-6306 | Terminal Clamp Plate | 2 | |
| 5 | 62100-6308 | Side Plate Guide | 2 | |
| 6 | 63600-1959 | Collar | 1 | |
| 7 | 63600-1960 | Stop Screw | 1 | |
| 8 | 63700-4512 | Retaining Washer | 1 | |
| 9 | N/A | M5 Flat Washer | 2** | |
| 10 | N/A | M5 Jam Nut | 2** | |
| 11 | N/A | M4 by 6mm long SHCS | 2** | |
| 12 | N/A | M4 by 8mm long SHCS | 2** | |
| ** 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

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