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IMPEL Backplane Press-In Tool

<p>IMPEL Backplane Module Installation Press-In Tool</p>		
	<p>Application Tooling Specification Sheet</p>	
		<p>Order No. 62201-8972</p>

FEATURES

- Polarized tool prevents product damage
- 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

SCOPE

Products: IMPEL 3mm pitch Backplane Assembly, (6-Pair by 12 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	Column	Guide Style	Backplane Header Order No.						
			171755-1204	171755-1205	171755-1207	171755-1208			
171755	12	Unguided							
		Left	171755-3204	171755-3205	171755-3207	171755-3208	171755-3214	171755-3215	
			171755-3217	171755-3218	171755-3224	171755-3225	171755-3227	171755-3228	
			171755-3234	171755-3235	171755-3237	171755-3238	171755-3244	171755-3245	
			171755-3247	171755-3248	171755-3254	171755-3255	171755-3257	171755-3258	
			171755-3264	171755-3265	171755-3267	171755-3268	171755-3274	171755-3275	
			171755-3277	171755-3278	171755-3284	171755-3285	171755-3287	171755-3288	
		Right	171755-5204	171755-5205	171755-5207	171755-5208	171755-5214	171755-5215	
			171755-5217	171755-5218	171755-5224	171755-5225	171755-5227	171755-5228	
			171755-5234	171755-5235	171755-5237	171755-5238	171755-5244	171755-5245	
			171755-5247	171755-5248	171755-5254	171755-5255	171755-5257	171755-5258	
			171755-5264	171755-5265	171755-5267	171755-5268	171755-5274	171755-5275	
			171755-5277	171755-5278	171755-5284	171755-5285	171755-5287	171755-5288	

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.

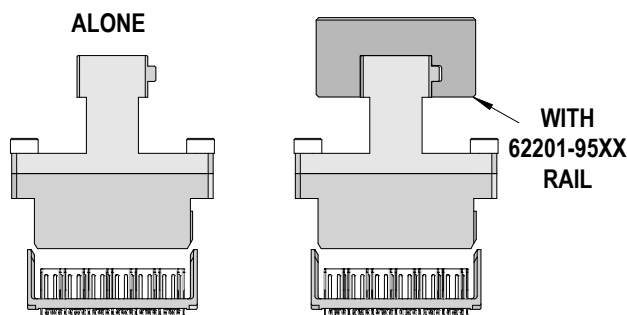


Figure 1

IMPEL Backplane Press-In Tool

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
62201-9501	24mm (0.94 in)
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: This Press-In Tool is 32.6mm (1.28 in.) long.

Printed Circuit Board (PCB) Support

The IMPEL connectors require up to 3.6kg (8 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 as they pass through the PCB thickness.

Press Equipment Recommendations

Many types of presses can be used to install IMPEL 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 (0.005 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.

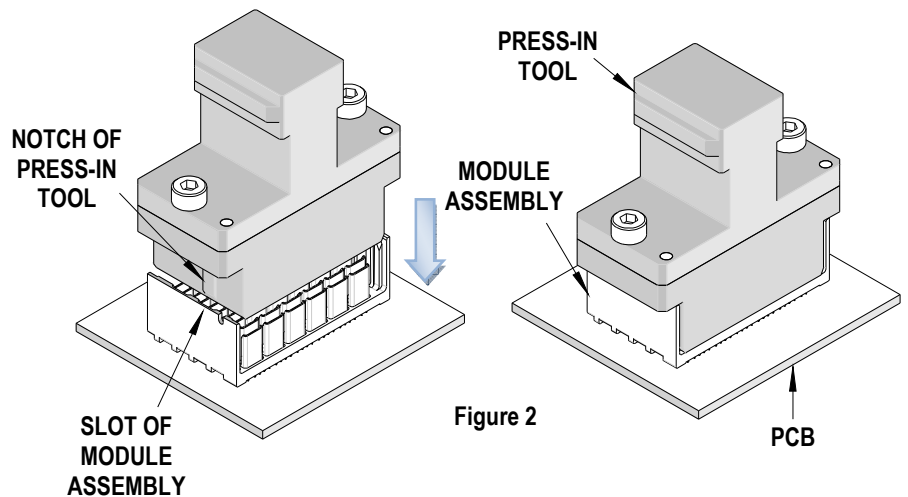


Figure 2

IMPEL Backplane Press-In Tool

Tool Operation

1. Insert by hand the backplane signal module assembly (s) carefully into the PCB hole pattern. Make sure the connector(s) are oriented properly by confirming the location of the #1 circuit notch with respect to the PCB layout.
2. Insert the Press-In Tool making sure that the notch in this tool is inserted into the slot on top of the connector housing of the backplane signal module assembly. See Figure 2.
3. Using the application tool and an appropriate press, seat the header 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.

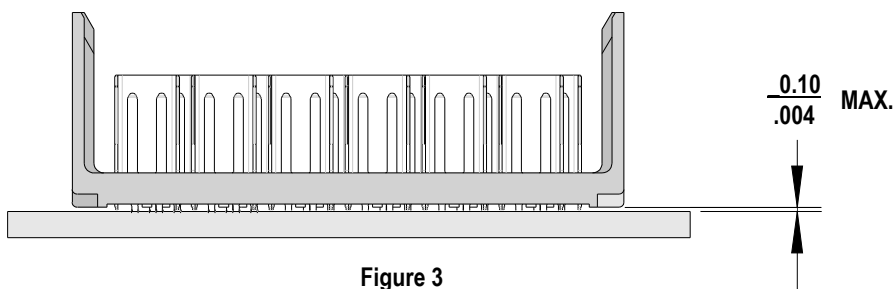


Figure 3

There should be no broken stand-offs along the perimeter of the part (an indication of over-pressing).

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>