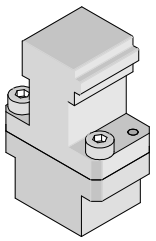
Impact™ Backplane Module Installation Press-In Tool

molex

Application Tooling Specification Sheet



Order No. 62201-8790

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: Impact™ 85Ω Plus Vertical Backplane Signal Module Assembly, (4-Pair by 10 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 No.	Guide Style	Columns	Assembly Order Number					
170332	Custom	10	170332-0006	170332-0008				
170335 85Ω	Unguided	10	170335-1103	170335-1104	170335-1105	170335-1106	170335-1107	170335-1108
			170335-1113	170335-1114	170335-1115	170335-1116	170335-1117	170335-1118
			170335-1123	170335-1124	170335-1125	170335-1126	170335-1127	170335-1128
			170335-1133	170335-1134	170335-1135	170335-1136	170335-1137	170335-1138
	Left	10	170335-3103	170335-3104	170335-3105	170335-3106	170335-3107	170335-3108
			170335-3113	170335-3114	170335-3115	170335-3116	170335-3117	170335-3118
			170335-3123	170335-3124	170335-3125	170335-3126	170335-3127	170335-3128
			170335-3133	170335-3134	170335-3135	170335-3136	170335-3137	170335-3138
			170335-3143	170335-3144	170335-3145	170335-3146	170335-3147	170335-3148
			170335-3153	170335-3154	170335-3155	170335-3156	170335-3157	170335-3158
			170335-3163	170335-3164	170335-3165	170335-3166	170335-3167	170335-3168
			170335-3173	170335-3174	170335-3175	170335-3176	170335-3177	170335-3178
			170335-3183	170335-3184	170335-3185	170335-3186	170335-3187	170335-3188
			170335-7103	170335-7104	170335-7105	170335-7106	170335-7107	170335-7108
			170335-7113	170335-7114	170335-7115	170335-7116	170335-7117	170335-7118
			170335-7123	170335-7124	170335-7125	170335-7126	170335-7127	170335-7128
			170335-7133	170335-7134	170335-7135	170335-7136	170335-7137	170335-7138
			170335-7143	170335-7144	170335-7145	170335-7146	170335-7147	170335-7148
			170335-7153	170335-7154	170335-7155	170335-7156	170335-7157	170335-7158
			170335-7163	170335-7164	170335-7165	170335-7166	170335-7167	170335-7168
			170335-7173	170335-7174	170335-7175	170335-7176	170335-7177	170335-7178
			170335-7183	170335-7184	170335-7185	170335-7186	170335-7187	170335-7188
	Right	10	170335-5103	170335-5104	170335-5105	170335-5106	170335-5107	170335-5108
			170335-5113	170335-5114	170335-5115	170335-5116	170335-5117	170335-5118
			170335-5123	170335-5124	170335-5125	170335-5126	170335-5127	170335-5128
			170335-5133	170335-5134	170335-5135	170335-5136	170335-5137	170335-5138

Series No.	Guide Style	Columns	Assembly Order Number					
170335 85Ω	Right	10	170335-5143	170335-5144	170335-5145	170335-5146	170335-5147	170335-5148
			170335-5153	170335-5154	170335-5155	170335-5156	170335-5157	170335-5158
			170335-5163	170335-5164	170335-5165	170335-5166	170335-5167	170335-5168
			170335-5173	170335-5174	170335-5175	170335-5176	170335-5177	170335-5178
			170335-5183	170335-5184	170335-5185	170335-5186	170335-5187	170335-5188
			170335-9103	170335-9104	170335-9105	170335-9106	170335-9107	170335-9108
			170335-9113	170335-9114	170335-9115	170335-9116	170335-9117	170335-9118
			170335-9123	170335-9124	170335-9125	170335-9126	170335-9127	170335-9128
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			170335-9143	170335-9144	170335-9145	170335-9146	170335-9147	170335-9148
			170335-9153	170335-9154	170335-9155	170335-9156	170335-9157	170335-9158
			170335-9163	170335-9164	170335-9165	170335-9166	170335-9167	170335-9168
			170335-9173	170335-9174	170335-9175	170335-9176	170335-9177	170335-9178
			170335-9183	170335-9184	170335-9185	170335-9186	170335-9187	170335-9188

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.

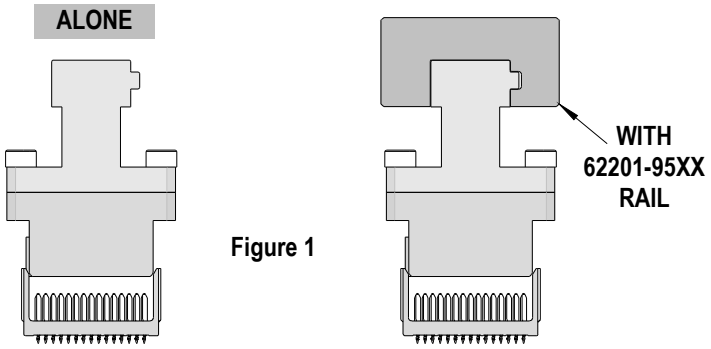

Figure 1

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 18.9mm (0.74 in.) long.

Printed Circuit Board (PCB) Support

The Impact™ 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 Impact™ 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.

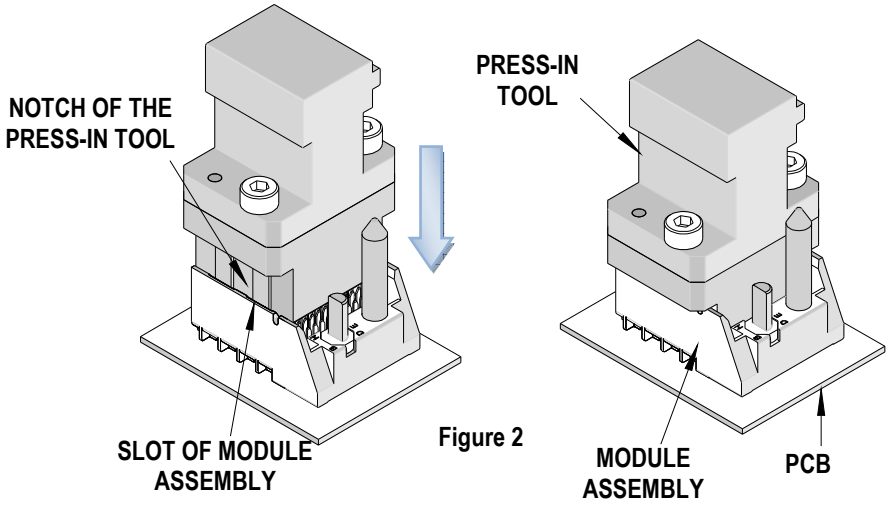

Figure 2

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.

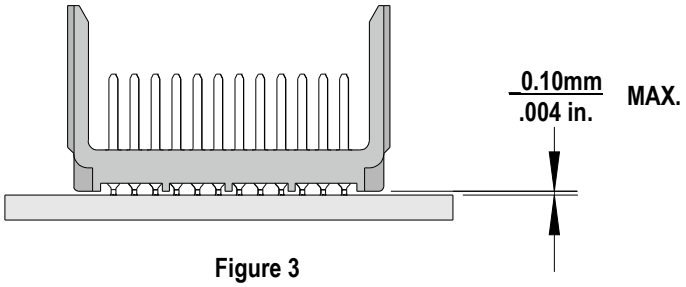

Figure 3

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.

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