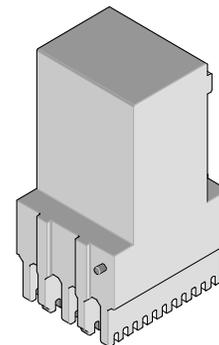




Backplane Module Installation Application Tooling Specification Press-In Tool Order No. 62201-8621



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: I-Trac™ Backplane Signal Module Assembly, 76035 Series 10 Column Assemblies. See Product List below for specific part numbers.

Product List

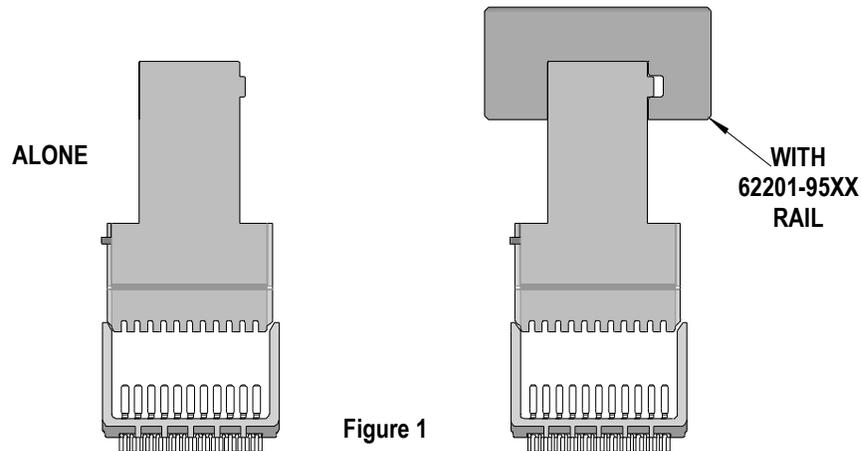
The following is a partial list of the product order numbers and their specifications this tool is designed to run. Updates to this list are available on www.molex.com.

76035 Series Numbers					
Guide Style	Columns	Assembly Order Number			
Open	10	76035-0102	76035-0103	76035-0104	76035-0105
Left End Wall		76035-0112	76035-0113	76035-0114	76035-0115
Dual End Wall		76035-0122	76035-0123	76035-0124	76035-0125
Right End Wall		76035-0132	76035-0133	76035-0134	76035-0135
Open		76035-1102	76035-1103	76035-1104	76035-1105
Left End Wall		76035-1112	76035-1113	76035-1114	76035-1115
Dual End Wall		76035-1122	76035-1123	76035-1124	76035-1125
Right End Wall		76035-1132	76035-1133	76035-1134	76035-1135
Guide Left	10	76035-2102	76035-2103	76035-2104	76035-2105
		76035-2112	76035-2113	76035-2114	76035-2115
		76035-2122	76035-2123	76035-2124	76035-2125
		76035-2132	76035-2133	76035-2134	76035-2135
		76035-2142	76035-2143	76035-2144	76035-2145
		76035-2152	76035-2153	76035-2154	76035-2155
		76035-2162	76035-2163	76035-2164	76035-2165
		76035-2172	76035-2173	76035-2174	76035-2175
		76035-2182	76035-2183	76035-2184	76035-2185
		76035-3102	76035-3103	76035-3104	76035-3105
		76035-3112	76035-3113	76035-3114	76035-3115
		76035-3122	76035-3123	76035-3124	76035-3125
		76035-3132	76035-3133	76035-3134	76035-3135
		76035-3142	76035-3143	76035-3144	76035-3145
		76035-3152	76035-3153	76035-3154	76035-3155
		76035-3162	76035-3163	76035-3164	76035-3165
Guide Right	10	76035-4102	76035-4103	76035-4104	76035-4105
		76035-4112	76035-4113	76035-4114	76035-4115
		76035-4122	76035-4123	76035-4124	76035-4125

76035 Series Numbers					
Guide Style	Columns	Assembly Order Number			
Guide Right	10	76035-4132	76035-4133	76035-4134	76035-4135
		76035-4142	76035-4143	76035-4144	76035-4145
		76035-4152	76035-4153	76035-4154	76035-4155
		76035-4162	76035-4163	76035-4164	76035-4165
		76035-4172	76035-4173	76035-4174	76035-4175
		76035-4182	76035-4183	76035-4184	76035-4185
		76035-5102	76035-5103	76035-5104	76035-5105
		76035-5112	76035-5113	76035-5114	76035-5115
		76035-5122	76035-5123	76035-5124	76035-5125
		76035-5132	76035-5133	76035-5134	76035-5135
		76035-5142	76035-5143	76035-5144	76035-5145
		76035-5152	76035-5153	76035-5154	76035-5155
		76035-5162	76035-5163	76035-5164	76035-5165
		76035-5172	76035-5173	76035-5174	76035-5175
		76035-5182	76035-5183	76035-5184	76035-5185
		Guide Left With End Wall	10	76035-6102	76035-6103
76035-6112	76035-6113			76035-6114	76035-6115
76035-6122	76035-6123			76035-6124	76035-6125
76035-6132	76035-6133			76035-6134	76035-6135
76035-6142	76035-6143			76035-6144	76035-6145
76035-6152	76035-6153			76035-6154	76035-6155
76035-6162	76035-6163			76035-6164	76035-6165
76035-6172	76035-6173			76035-6174	76035-6175
76035-6182	76035-6183			76035-6184	76035-6185
76035-7102	76035-7103			76035-7104	76035-7105
76035-7112	76035-7113			76035-7114	76035-7115
76035-7122	76035-7123			76035-7124	76035-7125
76035-7132	76035-7133			76035-7134	76035-7135
76035-7142	76035-7143			76035-7144	76035-7145
76035-7152	76035-7153			76035-7154	76035-7155
76035-7162	76035-7163			76035-7164	76035-7165
76035-7172	76035-7173	76035-7174	76035-7175		
76035-7182	76035-7183	76035-7184	76035-7185		
Guide Right With End Wall	10	76035-8102	76035-8103	76035-8104	76035-8105
		76035-8112	76035-8113	76035-8114	76035-8115
		76035-8122	76035-8123	76035-8124	76035-8125
		76035-8132	76035-8133	76035-8134	76035-8135
		76035-8142	76035-8143	76035-8144	76035-8145
		76035-8152	76035-8153	76035-8154	76035-8155
		76035-8162	76035-8163	76035-8164	76035-8165
		76035-8172	76035-8173	76035-8174	76035-8175
		76035-8182	76035-8183	76035-8184	76035-8185
		76035-9102	76035-9103	76035-9104	76035-9105
		76035-9112	76035-9113	76035-9114	76035-9115
		76035-9122	76035-9123	76035-9124	76035-9125
		76035-9132	76035-9133	76035-9134	76035-9135
		76035-9142	76035-9143	76035-9144	76035-9145
		76035-9152	76035-9153	76035-9154	76035-9155
		76035-9162	76035-9163	76035-9164	76035-9165
76035-9172	76035-9173	76035-9174	76035-9175		
76035-9182	76035-9183	76035-9184	76035-9185		

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.



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 37.0mm (1.46 in.) long.

Printed Circuit Board (PCB) Support

The I-Trac™ connectors require up to 1.81kg (4 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 I-Trac™ 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.

Tool Operation

1. Carefully insert, by hand, the backplane signal module(s) 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 application tool into the header assembly with the orientation peg on the tool entering the #1 circuit notch at the top of the connector housing. See Figure 2.

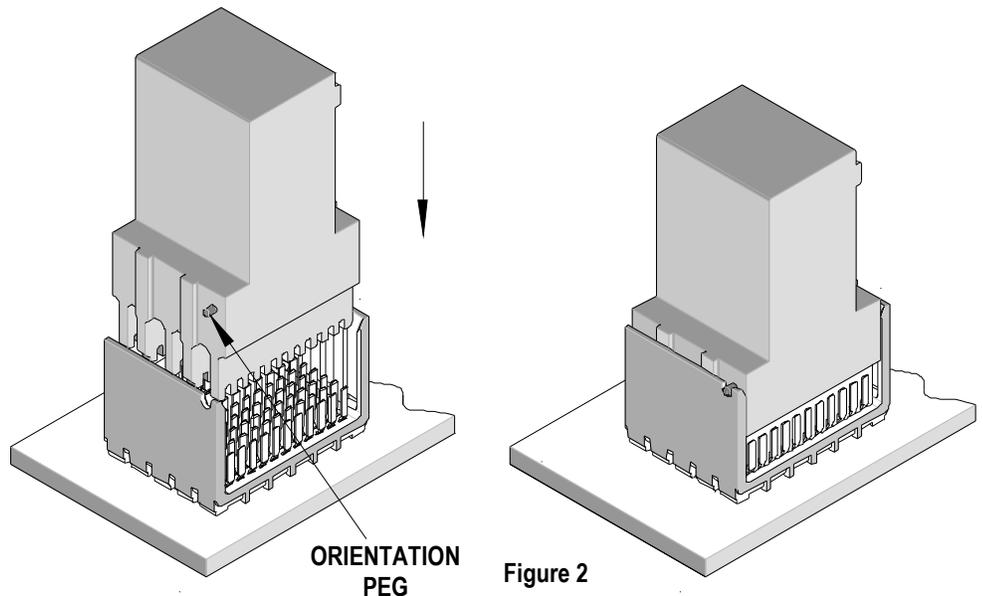


Figure 2

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.

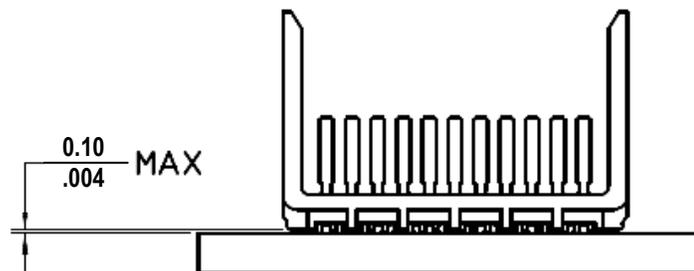


Figure 3

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

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