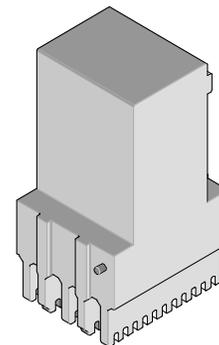




**I-Trac™ Backplane Module Installation  
Application Tooling Specification  
Press-In Tool  
Order No. 62201-8619**



## 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 8 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](http://www.molex.com).

76035 Series Numbers					
Guide Style	Columns	Assembly Order Number			
Open	8	76035-0802	76035-0803	76035-0804	76035-0805
Left End Wall		76035-0812	76035-0813	76035-0814	76035-0815
Dual End Wall		76035-0822	76035-0823	76035-0824	76035-0825
Right End Wall		76035-0832	76035-0833	76035-0834	76035-0835
Open		76035-1802	76035-1803	76035-1804	76035-1805
Left End Wall		76035-1812	76035-1813	76035-1814	76035-1815
Dual End Wall		76035-1822	76035-1823	76035-1824	76035-1825
Right End Wall		76035-1832	76035-1833	76035-1834	76035-1835
Guide Left	8	76035-2802	76035-2803	76035-2804	76035-2805
		76035-2812	76035-2813	76035-2814	76035-2815
		76035-2822	76035-2823	76035-2824	76035-2825
		76035-2832	76035-2833	76035-2834	76035-2835
		76035-2842	76035-2843	76035-2844	76035-2845
		76035-2852	76035-2853	76035-2854	76035-2855
		76035-2862	76035-2863	76035-2864	76035-2865
		76035-2872	76035-2873	76035-2874	76035-2875
		76035-2882	76035-2883	76035-2884	76035-2885
		76035-3802	76035-3803	76035-3804	76035-3805
		76035-3812	76035-3813	76035-3814	76035-3815
		76035-3822	76035-3823	76035-3824	76035-3825
		76035-3832	76035-3833	76035-3834	76035-3835
		76035-3842	76035-3843	76035-3844	76035-3845
		76035-3852	76035-3853	76035-3854	76035-3855
		76035-3862	76035-3863	76035-3864	76035-3865
76035-3872	76035-3873	76035-3874	76035-3875		
76035-3882	76035-3883	76035-3884	76035-3885		
Guide Right	8	76035-4802	76035-4803	76035-4804	76035-4805
		76035-4812	76035-4813	76035-4814	76035-4815
		76035-4822	76035-4823	76035-4824	76035-4825

76035 Series Numbers					
Guide Style	Columns	Assembly Order Number			
Guide Right	8	76035-4832	76035-4833	76035-4834	76035-4835
		76035-4842	76035-4843	76035-4844	76035-4845
		76035-4852	76035-4853	76035-4854	76035-4855
		76035-4862	76035-4863	76035-4864	76035-4865
		76035-4872	76035-4873	76035-4874	76035-4875
		76035-4882	76035-4883	76035-4884	76035-4885
		76035-5802	76035-5803	76035-5804	76035-5805
		76035-5812	76035-5813	76035-5814	76035-5815
		76035-5822	76035-5823	76035-5824	76035-5825
		76035-5832	76035-5833	76035-5834	76035-5835
		76035-5842	76035-5843	76035-5844	76035-5845
		76035-5852	76035-5853	76035-5854	76035-5855
		76035-5862	76035-5863	76035-5864	76035-5865
		76035-5872	76035-5873	76035-5874	76035-5875
		76035-5882	76035-5883	76035-5884	76035-5885
Guide Left With End Wall	8	76035-6802	76035-6803	76035-6804	76035-6805
		76035-6812	76035-6813	76035-6814	76035-6815
		76035-6822	76035-6823	76035-6824	76035-6825
		76035-6832	76035-6833	76035-6834	76035-6835
		76035-6842	76035-6843	76035-6844	76035-6845
		76035-6852	76035-6853	76035-6854	76035-6855
		76035-6862	76035-6863	76035-6864	76035-6865
		76035-6872	76035-6873	76035-6874	76035-6875
		76035-6882	76035-6883	76035-6884	76035-6885
		76035-7802	76035-7803	76035-7804	76035-7805
		76035-7812	76035-7813	76035-7814	76035-7815
		76035-7822	76035-7823	76035-7824	76035-7825
		76035-7832	76035-7833	76035-7834	76035-7835
		76035-7842	76035-7843	76035-7844	76035-7845
		76035-7852	76035-7853	76035-7854	76035-7855
76035-7862	76035-7863	76035-7864	76035-7865		
76035-7872	76035-7873	76035-7874	76035-7875		
76035-7882	76035-7883	76035-7884	76035-7885		
Guide Right With End Wall	8	76035-8802	76035-8803	76035-8804	76035-8805
		76035-8812	76035-8813	76035-8814	76035-8815
		76035-8822	76035-8823	76035-8824	76035-8825
		76035-8832	76035-8833	76035-8834	76035-8835
		76035-8842	76035-8843	76035-8844	76035-8845
		76035-8852	76035-8853	76035-8854	76035-8855
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		76035-9802	76035-9803	76035-9804	76035-9805
		76035-9812	76035-9813	76035-9814	76035-9815
		76035-9822	76035-9823	76035-9824	76035-9825
		76035-9832	76035-9833	76035-9834	76035-9835
		76035-9842	76035-9843	76035-9844	76035-9845
		76035-9852	76035-9853	76035-9854	76035-9855
76035-9862	76035-9863	76035-9864	76035-9865		
76035-9872	76035-9873	76035-9874	76035-9875		
76035-9882	76035-9883	76035-9884	76035-9885		

## 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.

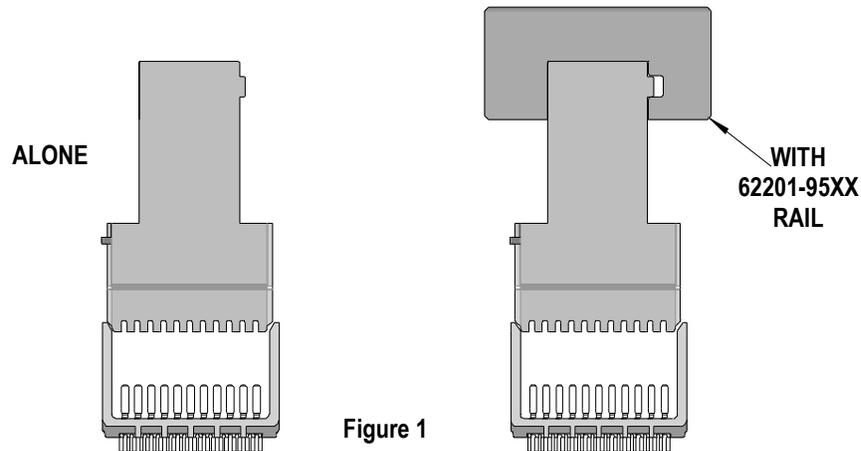


Figure 1

## 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 29.6mm (1.17 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.

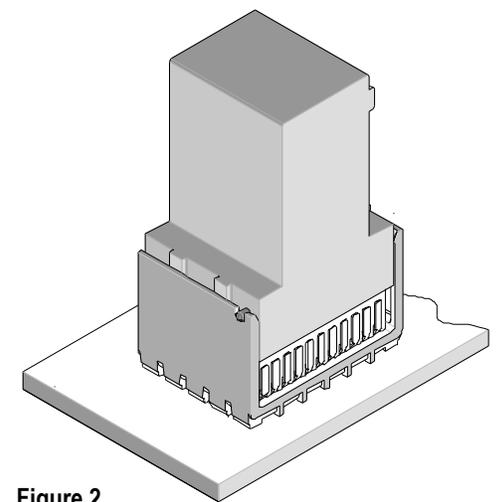
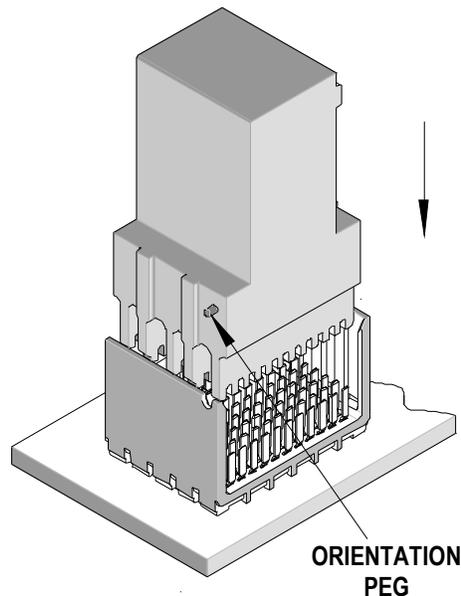


Figure 2

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.

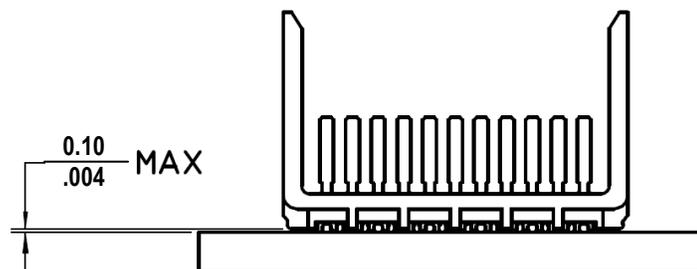


Figure 3

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

For more information on Molex application tooling please contact Molex at 1-800-786-6539.

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