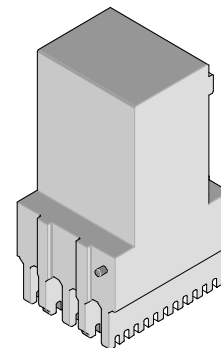




**I-Trac™ Backplane Module Installation  
Application Tooling Specification  
Press-In Tool  
Order No. 62201-8620**



## 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 9 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	9	76035-0902	76035-0903	76035-0904	76035-0905
Left End Wall		76035-0912	76035-0913	76035-0914	76035-0915
Dual End Wall		76035-0922	76035-0923	76035-0924	76035-0925
Right End Wall		76035-0932	76035-0933	76035-0934	76035-0935
Open		76035-1902	76035-1903	76035-1904	76035-1905
Left End Wall		76035-1912	76035-1913	76035-1914	76035-1915
Dual End Wall		76035-1922	76035-1923	76035-1924	76035-1925
Right End Wall		76035-1932	76035-1933	76035-1934	76035-1935
Guide Left	9	76035-2902	76035-2903	76035-2904	76035-2905
		76035-2912	76035-2913	76035-2914	76035-2915
		76035-2922	76035-2923	76035-2924	76035-2925
		76035-2932	76035-2933	76035-2934	76035-2935
		76035-2942	76035-2943	76035-2944	76035-2945
		76035-2952	76035-2953	76035-2954	76035-2955
		76035-2962	76035-2963	76035-2964	76035-2965
		76035-2972	76035-2973	76035-2974	76035-2975
		76035-2982	76035-2983	76035-2984	76035-2985
		76035-3902	76035-3903	76035-3904	76035-3905
		76035-3912	76035-3913	76035-3914	76035-3915
		76035-3922	76035-3923	76035-3924	76035-3925
		76035-3932	76035-3933	76035-3934	76035-3935
		76035-3942	76035-3943	76035-3944	76035-3945
		76035-3952	76035-3953	76035-3954	76035-3955
		76035-3962	76035-3963	76035-3964	76035-3965
76035-3972	76035-3973	76035-3974	76035-3975		
76035-3982	76035-3983	76035-3984	76035-3985		
Guide Right	9	76035-4902	76035-4903	76035-4904	76035-4905
		76035-4912	76035-4913	76035-4914	76035-4915
		76035-4922	76035-4923	76035-4924	76035-4925
		76035-4932	76035-4933	76035-4934	76035-4935

76035 Series Numbers					
Guide Style	Columns	Assembly Order Number			
Guide Right	9	76035-4942	76035-4943	76035-4944	76035-4945
		76035-4952	76035-4953	76035-4954	76035-4955
		76035-4962	76035-4963	76035-4964	76035-4965
		76035-4972	76035-4973	76035-4974	76035-4975
		76035-4982	76035-4983	76035-4984	76035-4985
		76035-5902	76035-5903	76035-5904	76035-5905
		76035-5912	76035-5913	76035-5914	76035-5915
		76035-5922	76035-5923	76035-5924	76035-5925
		76035-5932	76035-5933	76035-5934	76035-5935
		76035-5942	76035-5943	76035-5944	76035-5945
		76035-5952	76035-5953	76035-5954	76035-5955
		76035-5962	76035-5963	76035-5964	76035-5965
		76035-5972	76035-5973	76035-5974	76035-5975
		76035-5982	76035-5983	76035-5984	76035-5985
		Guide Left With End Wall	9	76035-6902	76035-6903
76035-6912	76035-6913			76035-6914	76035-6915
76035-6922	76035-6923			76035-6924	76035-6925
76035-6932	76035-6933			76035-6934	76035-6935
76035-6942	76035-6943			76035-6944	76035-6945
76035-6952	76035-6953			76035-6954	76035-6955
76035-6962	76035-6963			76035-6964	76035-6965
76035-6972	76035-6973			76035-6974	76035-6975
76035-6982	76035-6983			76035-6984	76035-6985
76035-7902	76035-7903			76035-7904	76035-7905
76035-7912	76035-7913			76035-7914	76035-7915
76035-7922	76035-7923			76035-7924	76035-7925
76035-7932	76035-7933			76035-7934	76035-7935
76035-7942	76035-7943			76035-7944	76035-7945
76035-7952	76035-7953			76035-7954	76035-7955
76035-7962	76035-7963	76035-7964	76035-7965		
76035-7972	76035-7973	76035-7974	76035-7975		
76035-7982	76035-7983	76035-7984	76035-7985		
Guide Right With End Wall	9	76035-8902	76035-8903	76035-8904	76035-8905
		76035-8912	76035-8913	76035-8914	76035-8915
		76035-8922	76035-8923	76035-8924	76035-8925
		76035-8932	76035-8933	76035-8934	76035-8935
		76035-8942	76035-8943	76035-8944	76035-8945
		76035-8952	76035-8953	76035-8954	76035-8955
		76035-8962	76035-8963	76035-8964	76035-8965
		76035-8972	76035-8973	76035-8974	76035-8975
		76035-8982	76035-8983	76035-8984	76035-8985
		76035-9902	76035-9903	76035-9904	76035-9905
		76035-9912	76035-9913	76035-9914	76035-9915
		76035-9922	76035-9923	76035-9924	76035-9925
		76035-9932	76035-9933	76035-9934	76035-9935
		76035-9942	76035-9943	76035-9944	76035-9945
		76035-9952	76035-9953	76035-9954	76035-9955
76035-9962	76035-9963	76035-9964	76035-9965		
76035-9972	76035-9973	76035-9974	76035-9975		
76035-9982	76035-9983	76035-9984	76035-9985		

## 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.

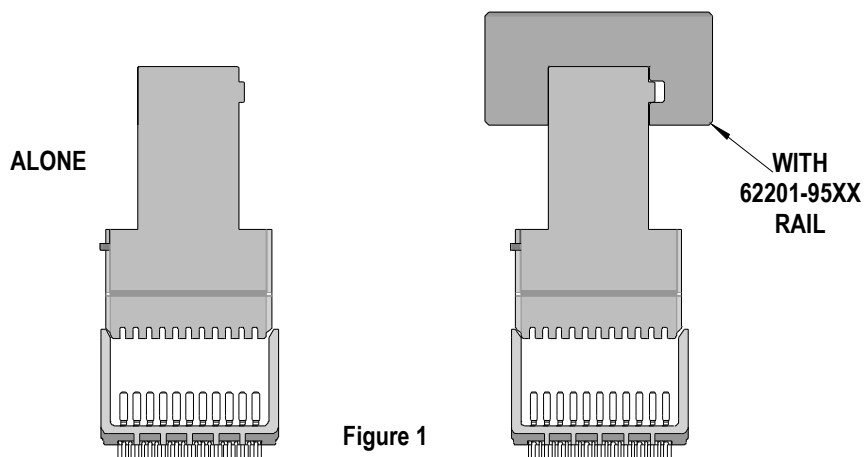


Figure 1

## 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 33.3mm (1.31 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.

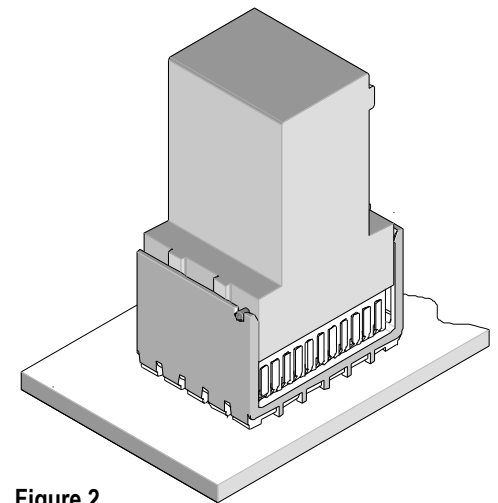
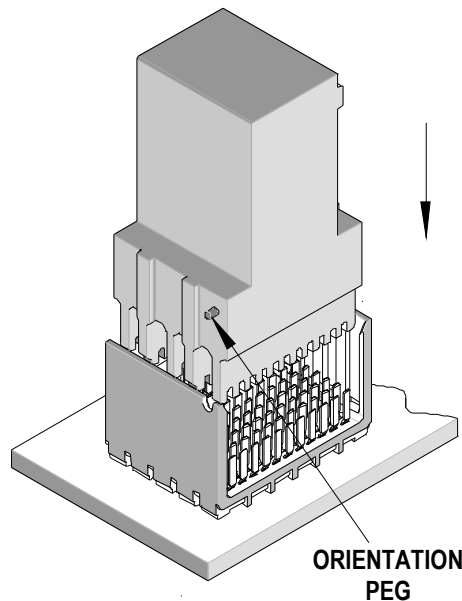


Figure 2

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.

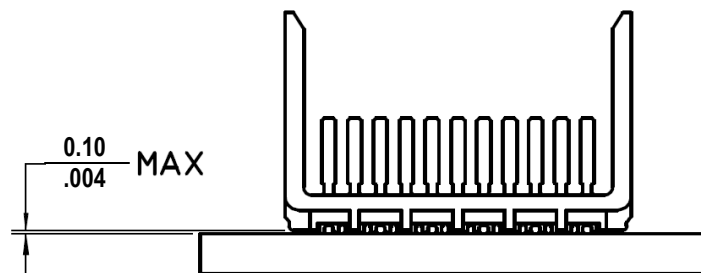


Figure 3

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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