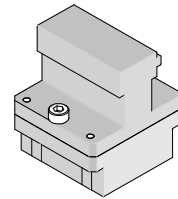


**Impact™
Backplane Module
Installation
Press-In Tool**

molex

**Application Tooling
Specification Sheet**



Order No. 62201-8810

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 Vertical Backplane Assembly, (6-Pair by 16 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					
170520	Custom	16	170520-0001					
170532	Custom	16	170532-0001					
170535 85Ω	Open Wall	16	170535-1603	170535-1604	170535-1605	170535-1606	170535-1607	170535-1608
	Dual End	16	170535-1623	170535-1624	170535-1625	170535-1626	170535-1627	170535-1628
	Left End	16	170535-1613	170535-1614	170535-1615	170535-1616	170535-1617	170535-1618
	Right End	16	170535-1633	170535-1634	170535-1635	170535-1636	170535-1637	170535-1638
	Left Guided	16	170535-3603	170535-3604	170535-3605	170535-3606	170535-3607	170535-3608
			170535-3613	170535-3614	170535-3615	170535-3616	170535-3617	170535-3618
			170535-3623	170535-3624	170535-3625	170535-3626	170535-3627	170535-3628
			170535-3633	170535-3634	170535-3635	170535-3636	170535-3637	170535-3638
			170535-3643	170535-3644	170535-3645	170535-3646	170535-3647	170535-3648
			170535-3653	170535-3654	170535-3655	170535-3656	170535-3657	170535-3658
			170535-3663	170535-3664	170535-3665	170535-3666	170535-3667	170535-3668
			170535-3673	170535-3674	170535-3675	170535-3676	170535-3677	170535-3678
			170535-3683	170535-3684	170535-3685	170535-3686	170535-3687	170535-3688
			170535-7603	170535-7604	170535-7605	170535-7606	170535-7607	170535-7608
			170535-7613	170535-7614	170535-7615	170535-7616	170535-7617	170535-7618
			170535-7623	170535-7624	170535-7625	170535-7626	170535-7627	170535-7628
			170535-7633	170535-7634	170535-7635	170535-7636	170535-7637	170535-7638
			170535-7643	170535-7644	170535-7645	170535-7646	170535-7647	170535-7648
			170535-7653	170535-7654	170535-7655	170535-7656	170535-7657	170535-7658
			170535-7663	170535-7664	170535-7665	170535-7666	170535-7667	170535-7668
	170535-7673	170535-7674	170535-7675	170535-7676	170535-7677	170535-7678		
	170535-7683	170535-7684	170535-7685	170535-7686	170535-7687	170535-7688		
	Right Guided	16	170535-5603	170535-5604	170535-5605	170535-5606	170535-5607	170535-5608
			170535-5613	170535-5614	170535-5615	170535-5616	170535-5617	170535-5618
			170535-5623	170535-5624	170535-5625	170535-5626	170535-5627	170535-5628
			170535-5633	170535-5634	170535-5635	170535-5636	170535-5637	170535-5638
			170535-5643	170535-5644	170535-5645	170535-5646	170535-5647	170535-5648

Series No.	Guide Style	Columns	Assembly Order Number					
			170535 85Ω	Right Guided	16	170535-5653	170535-5654	170535-5655
170535-5663	170535-5664	170535-5665				170535-5666	170535-5667	170535-5668
170535-5673	170535-5674	170535-5675				170535-5676	170535-5677	170535-5678
170535-5683	170535-5684	170535-5685				170535-5686	170535-5687	170535-5688
170535-9603	170535-9604	170535-9605				170535-9606	170535-9607	170535-9608
170535-9613	170535-9614	170535-9615				170535-9616	170535-9617	170535-9618
170535-9623	170535-9624	170535-9625				170535-9626	170535-9627	170535-9628
170535-9633	170535-9634	170535-9635				170535-9636	170535-9637	170535-9638
170535-9643	170535-9644	170535-9645				170535-9646	170535-9647	170535-9648
170535-9653	170535-9654	170535-9655				170535-9656	170535-9657	170535-9658
170535-9663	170535-9664	170535-9665				170535-9666	170535-9667	170535-9668
170535-9673	170535-9674	170535-9675				170535-9676	170535-9677	170535-9678
170535-9683	170535-9684	170535-9685				170535-9686	170535-9687	170535-9688

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.

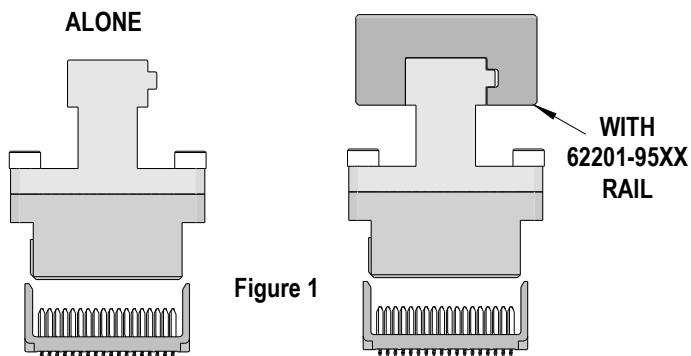


Figure 1

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 30.3mm (1.19 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.

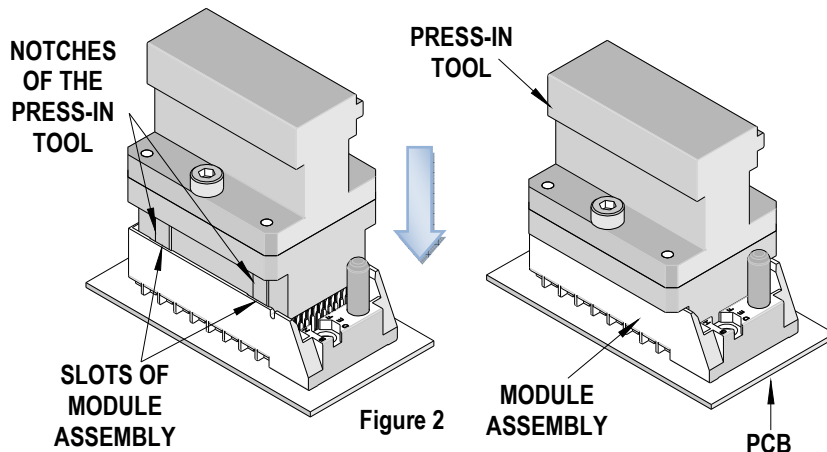
Due to the custom nature of every application, Molex does not offer any PCB support plate. The customer must furnish their own support plate.

When creating the PCB support plate, remember to allow clearance for the connector pins as they pass through the PCB thickness.

Press Equipment Recommendations

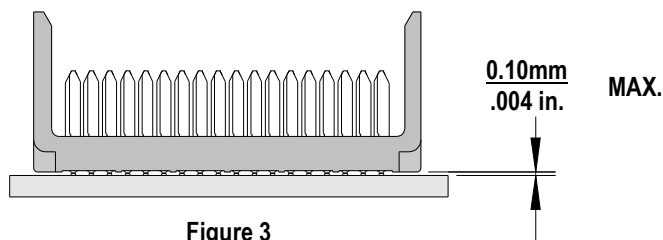
Many types of presses can be used to install Impact™ connectors, but to assure consistent connector installation Molex recommends the following press criteria:

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.



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 (0.004 in) clearance between the bottom of the plastic housing and the surface of the PCB. See 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>