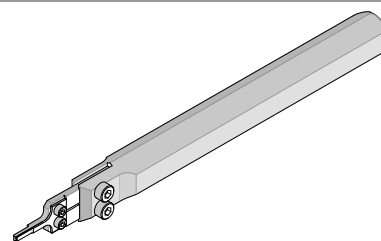


**Impel
Backplane
Signal Contact
Insertion Tool**



**Application Tooling
Specification Sheet**



Order No. 62201-8930

FEATURES

- The Impel Insertion Tool is used for replacing a damaged signal contact on the Molex Impel terminal backplane header assemblies that is mounted onto a printed circuit board (PCB).
- Refer to Ats-622018940 to replace a damaged ground shield

SCOPE

Products: Impel Backplane Header 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 that this tool is designed to be used with. Updates to this list are available on www.molex.com.

| Series No. | Backplane Header Assembly Order No. | | | | | | | |
|-------------|-------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 171325 | 171325-1604 | 171325-1605 | | | | | | |
| 171335 | 171335-1804 | 171335-1804 | | | | | | |
| 171395 | 171395-1104 | 171395-1105 | 171395-1107 | 171395-1108 | 171395-1604 | 171395-1605 | 171395-1607 | 171395-1608 |
| | 171395-3104 | 171395-3105 | 171395-3107 | 171395-3108 | 171395-3114 | 171395-3115 | 171395-3117 | 171395-3118 |
| | 171395-3124 | 171395-3125 | 171395-3127 | 171395-3128 | 171395-3134 | 171395-3135 | 171395-3137 | 171395-3138 |
| | 171395-3144 | 171395-3145 | 171395-3147 | 171395-3148 | 171395-3154 | 171395-3155 | 171395-3157 | 171395-3158 |
| | 171395-3164 | 171395-3165 | 171395-3167 | 171395-3168 | 171395-3174 | 171395-3175 | 171395-3177 | 171395-3178 |
| | 171395-3184 | 171395-3185 | 171395-3187 | 171395-3188 | 171395-3604 | 171395-3605 | 171395-3607 | 171395-3608 |
| | 171395-3614 | 171395-3615 | 171395-3617 | 171395-3618 | 171395-3624 | 171395-3625 | 171395-3627 | 171395-3628 |
| | 171395-3634 | 171395-3635 | 171395-3637 | 171395-3638 | 171395-3644 | 171395-3645 | 171395-3647 | 171395-3648 |
| | 171395-3654 | 171395-3655 | 171395-3657 | 171395-3658 | 171395-3664 | 171395-3665 | 171395-3667 | 171395-3668 |
| | 171395-3674 | 171395-3675 | 171395-3677 | 171395-3678 | 171395-3684 | 171395-3685 | 171395-3687 | 171395-3688 |
| | 171395-5104 | 171395-5105 | 171395-5107 | 171395-5108 | 171395-5114 | 171395-5115 | 171395-5117 | 171395-5118 |
| | 171395-5124 | 171395-5125 | 171395-5127 | 171395-5128 | 171395-5134 | 171395-5135 | 171395-5137 | 171395-5138 |
| | 171395-5144 | 171395-5145 | 171395-5147 | 171395-5148 | 171395-5154 | 171395-5155 | 171395-5157 | 171395-5158 |
| | 171395-5164 | 171395-5165 | 171395-5167 | 171395-5168 | 171395-5174 | 171395-5175 | 171395-5177 | 171395-5178 |
| | 171395-5184 | 171395-5185 | 171395-5187 | 171395-5188 | 171395-5604 | 171395-5605 | 171395-5607 | 171395-5608 |
| | 171395-5614 | 171395-5615 | 171395-5617 | 171395-5618 | 171395-5624 | 171395-5625 | 171395-5627 | 171395-5628 |
| | 171395-5634 | 171395-5635 | 171395-5637 | 171395-5638 | 171395-5644 | 171395-5645 | 171395-5647 | 171395-5648 |
| | 171395-5654 | 171395-5655 | 171395-5657 | 171395-5658 | 171395-5664 | 171395-5665 | 171395-5667 | 171395-5668 |
| 171395-5674 | 171395-5675 | 171395-5677 | 171395-5678 | 171395-5684 | 171395-5685 | 171395-5687 | 171395-5688 | |

OPERATION

Inspect the Signal Module and PCB. Make sure that the damaged signal contact has been completely removed.

Signal Contact Replacement

1. Place the signal contact at the tip of the insertion tool and slide the contact so it rests underneath the terminal clamp.
2. The signal contact will be guided using the groove located on the insertion tool and should be pushed all the way underneath the terminal clamp.
3. The signal contact is completely seated in the insertion tool when the contacts shoulder is resting against the insertion tool tip and can no longer be moved up. See Figure 1.
4. Make sure the signal contact is in the correct orientation. Check the column where the repair signal contact is being replaced and compare the column to the contact signal on the insertion tool. The two should be the same. The adjacent column is oriented in the opposite direction. See Figure 2.

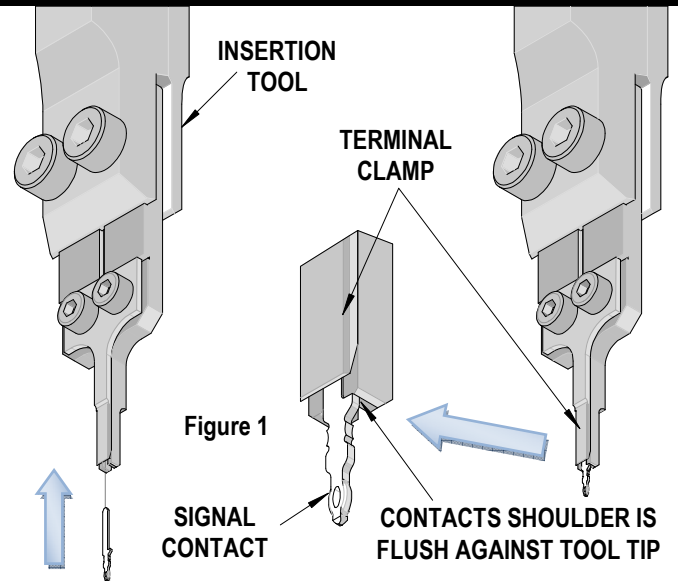


Figure 1

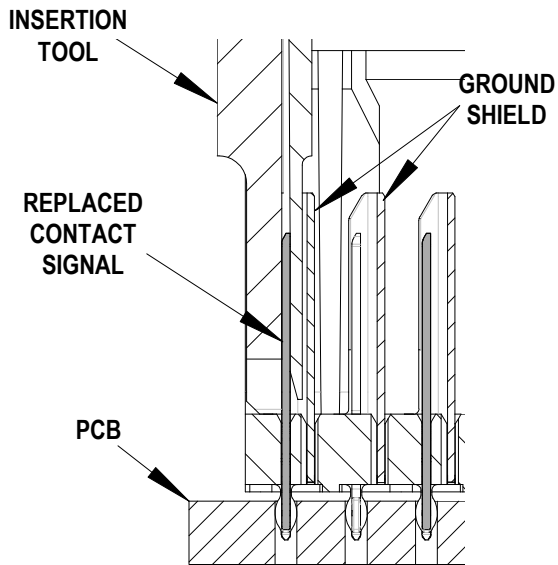


Figure 2

5. Line-up the pins tip on the signal contact, with the hole in the signal module and push the pin tip with the insertion tool through the housing and the PCB.
6. There is a clearance groove on the opposite side of the tool. When inserting the signal contact, make sure the tip of the tool is inside the sidewalls of the ground shield.
7. Continue pushing the signal contact until the insertion tool and terminal shoulder are seated securely to the inside housing surface. See Figure 3.
8. Pull the insertion tool straight up and remove. Check the final seating of the signal contact, the terminal shoulder should be seated flush with inside surface on housing.

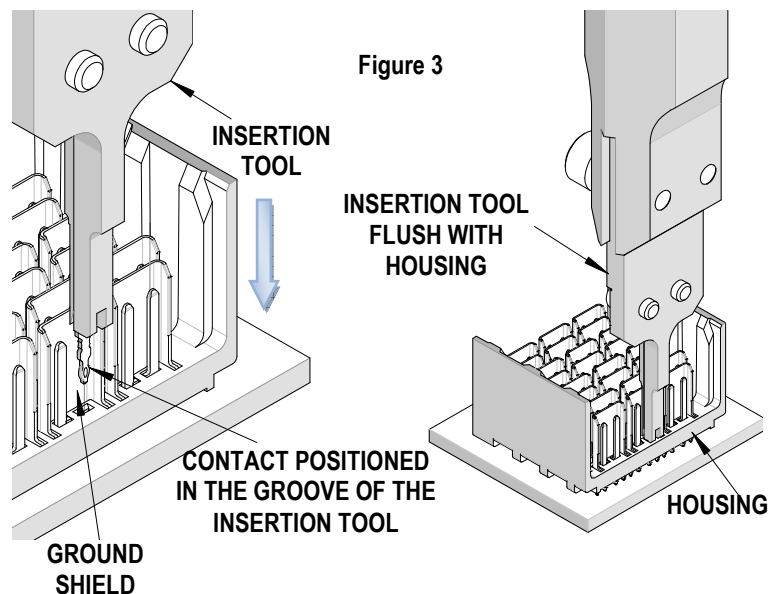


Figure 3

Molex does not offer repair parts for Insertion Tools due to the inexpensive nature of the tool.

CAUTION: To prevent injury, wear eye protection when using this tool.

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>