



APPLICATION SPECIFICATION

GFI 1.5 SYSTEM-CABLE SEALED APPLICATION GUIDE

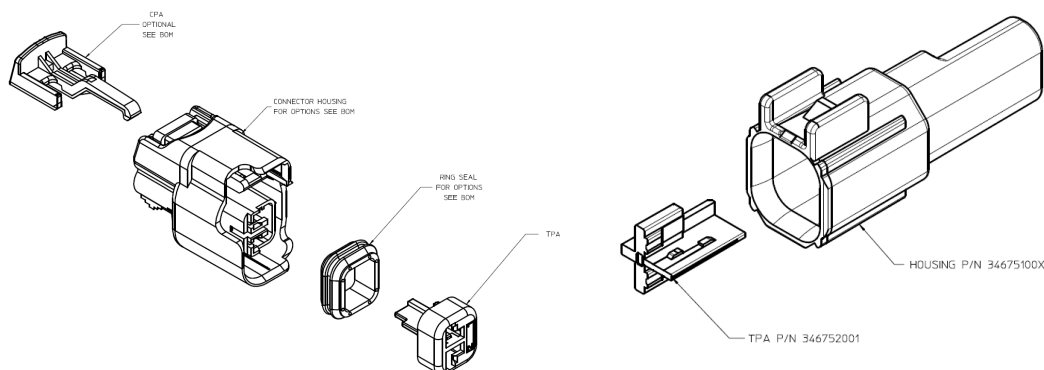
1.0 SCOPE: THIS MANUAL CONTAINS SUPPLEMENTAL INFORMATION PERTAINING TO THE MOLEX GFI 1.50MM CABLE SEALED PRODUCT LINE. MOLEX SERIES 34062, AND 34675.

2.0 PRODUCT DESCRIPTION:

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- : Product Introduction
- : Product Summary
- : Connector Assembly
- : Connector Mating
- : Service Instructions
- : Electrical Continuity Checking

GFI 1.5 System Cable Sealed Product Line



This instructions manual contains supplemental information pertaining to the Molex GFI 1.50mm Cable Sealed Product Line. Please refer to Drawing #SD-34675-001 and SD-34062-002 for all color, keyway, and terminal options. Additional information can be found in the Product Specifications PS-34062-000.

For product ordering information, please contact your Molex Inside Sales Representative at (800) 786-6539.

For electronic copies and future updates of this document, and the Connector Reference Manual, refer to the Molex Website at <http://www.molex.com>

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: Connector Assembly

A. “As Shipped” connector position

TPA's shown in “as shipped” condition.

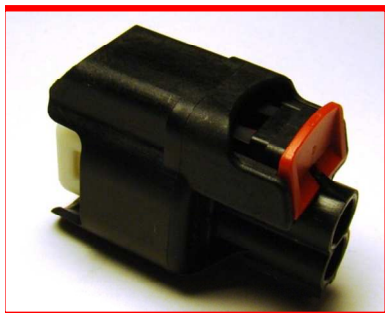
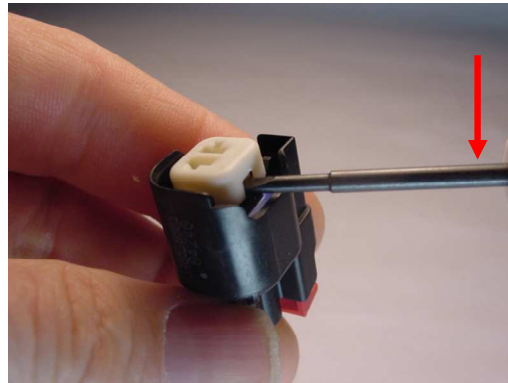
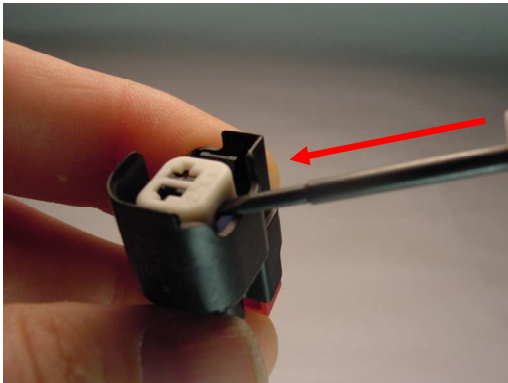
The TPA should remain in the pre-lock position until all circuits are loaded.

The TPA should never be removed from the connector!

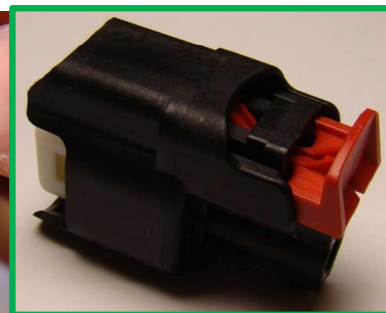
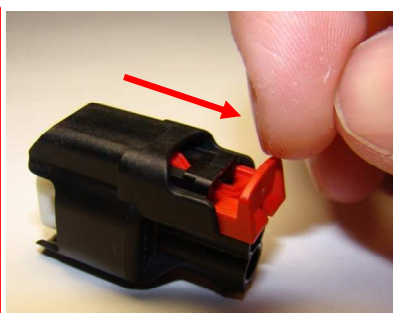


B. TPA & CPA “lift to pre-lock”

If during shipping the Connector TPA, or CPA moves from it's pre-lock position. TPA must be in pre-lock position to populate the connector. Slide a small screwdriver under the edge of the TPA on one side. Using the blade of the screwdriver gently push TPA upwards. The CPA also must be in pre-lock prior to connector mating. Simply pull back on the CPA with your finger.



CPA seated



CPA in pre-lock

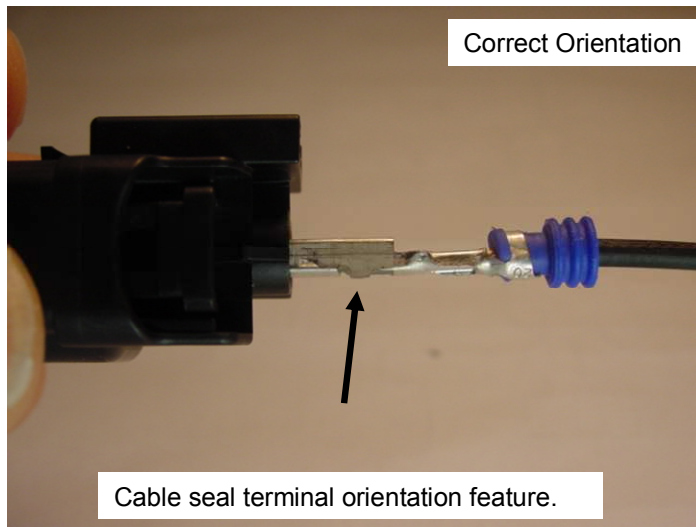
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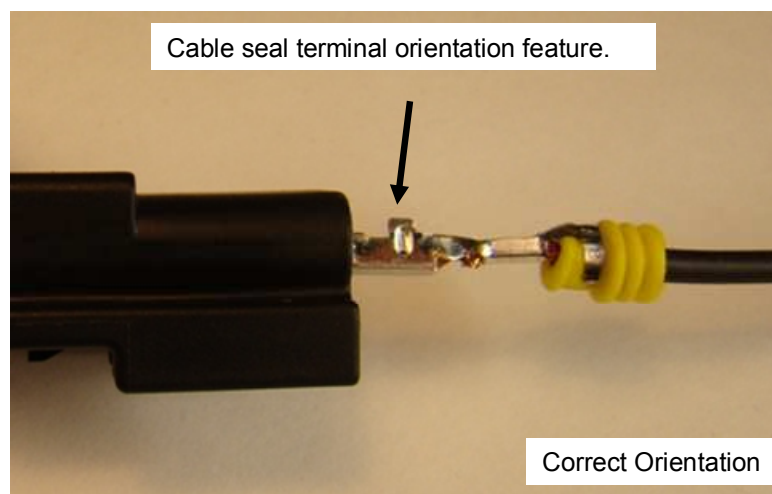
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C. Terminal Installation: Receptacle and Blade

With TPA still in pre-lock position, orient terminal to rear of connector. Grip the wire no less than 1.25 inches from the terminal insulation crimp and insert through appropriate circuit opening. If resistance is encountered, retract the terminal and adjust the angle of insertion. Continue inserting the terminal until it stops and locks up on the lock finger with an audible click.



Receptacle terminal installation



Blade terminal installation

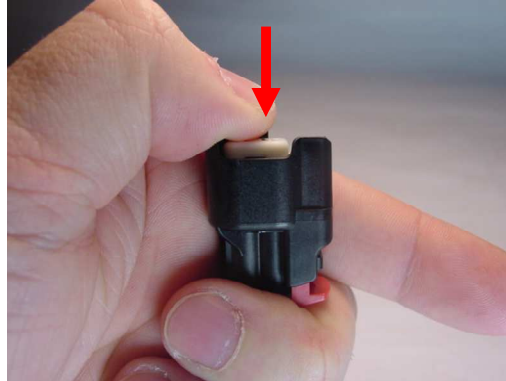
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D. Seating the TPA Receptacle side

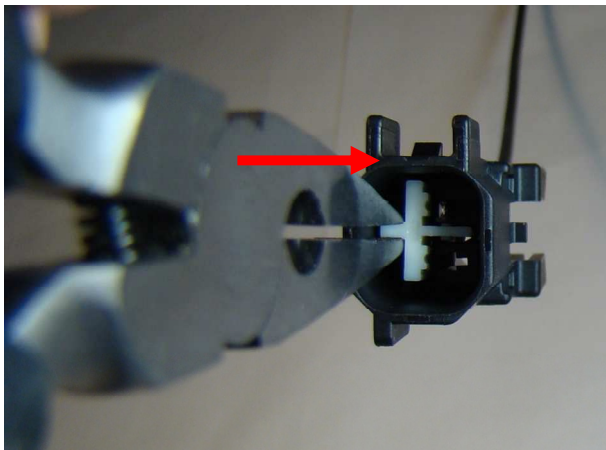
With the Receptacle terminals fully installed, the TPA can be seated into its final lock position by applying an even force to the TPA surface until it comes to a stop, with an audible click. **The TPA should never be fully removed !**



Receptacle TPA fully seated

D. Seating the TPA Blade side

With the blade terminals fully installed, the TPA can be seated into its final lock position by applying an even force to the TPA surface with small pliers until it comes to a stop, with an audible click. **The TPA should never be fully removed ! Care should be taken to not touch or damage the blade terminals!**



Blade TPA fully seated

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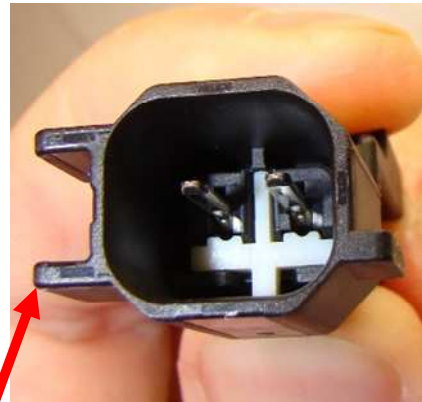
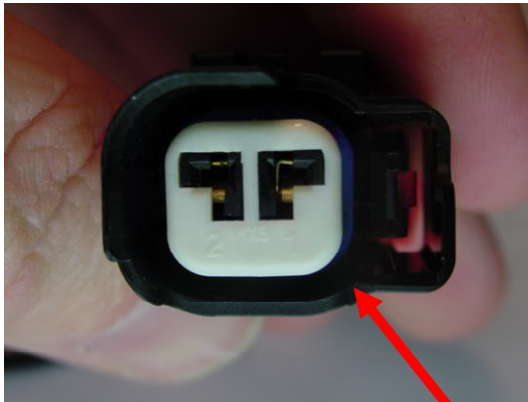


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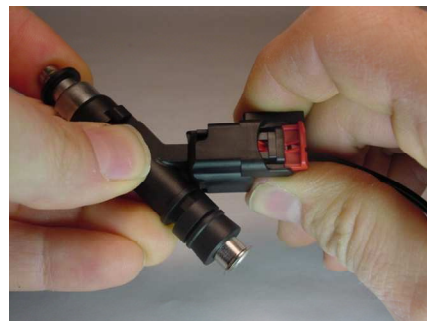
: Connector Mating

A. Note and align connector keying features, from connector to header.

Begin mating procedure by sliding the connector and header together, press firmly until you hear an audible click.



Keying Features



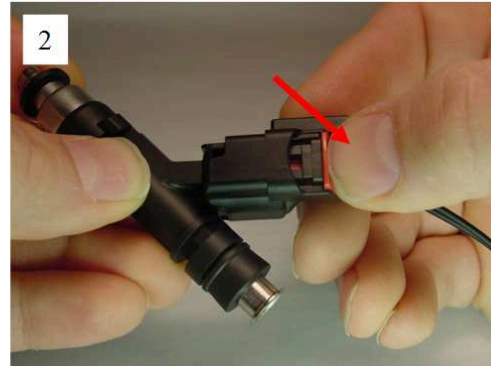
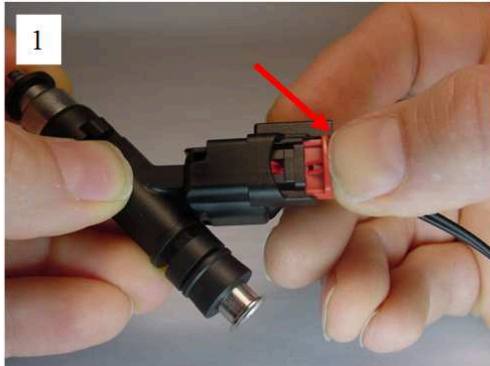
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B. Connector Mating (CPA option shown)

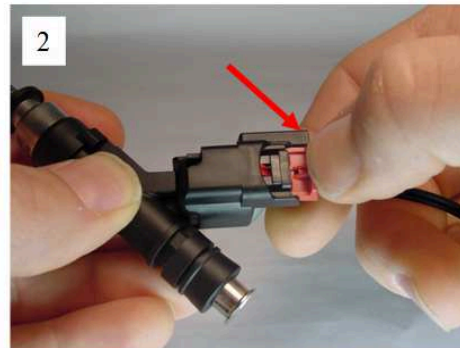
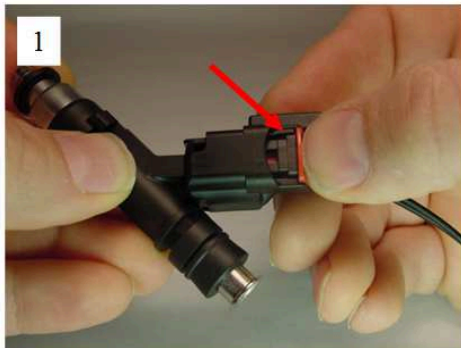
Once together the final step will be locking the CPA. Simply press in to the center of the CPA, until you see/feel positive engagement.



: Service Instructions

A. Un-mate procedure (servicing)

To un-mate the connectors, pull back on the CPA (step 1). Push connector together to unload the latch system. Then depress the latch with your thumb. Continue to depress the latch, and gently pull apart connector assemblies (step 2).



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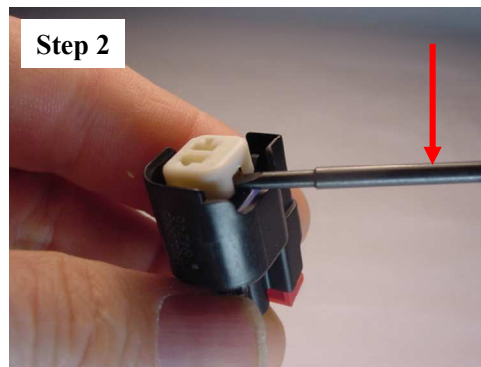
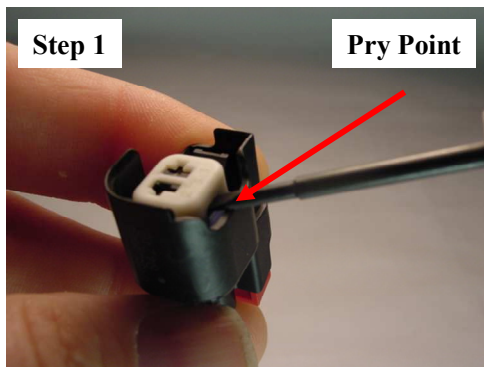
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B. TPA servicing Receptacle side

Step 1: Insert a small screwdriver (max width = 3.0 mm) into the designated pry point

Step 2: Using the housing as a pivot point gently pry out on the TPA until it reaches pre-lock position

The TPA should never be fully removed from the connector housing! Excessive force may damage the TPA!

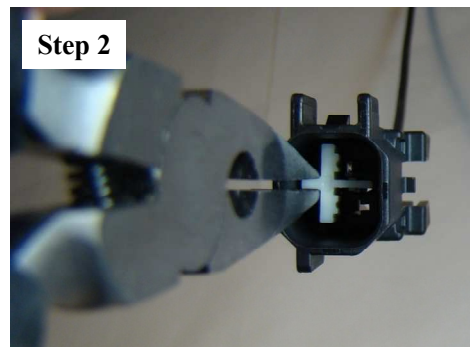
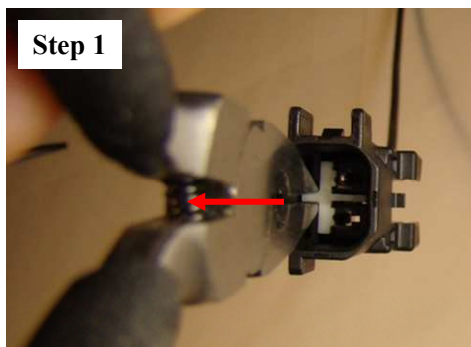


C. TPA servicing Blade side

Step 1: Insert small pliers into the designated pull point

Step 2: Using the pull point gently pry out on the TPA until it reaches pre-lock position

The TPA should never be fully removed from the connector housing! Excessive force may damage the TPA!



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D. Terminal removal (continued)

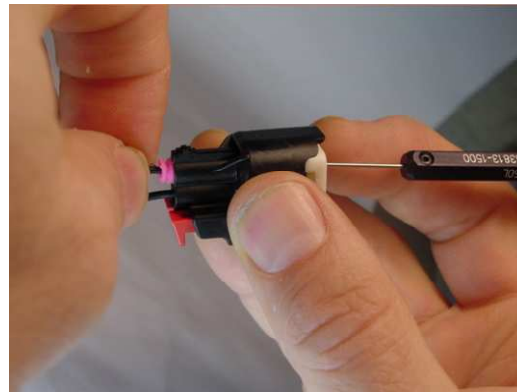
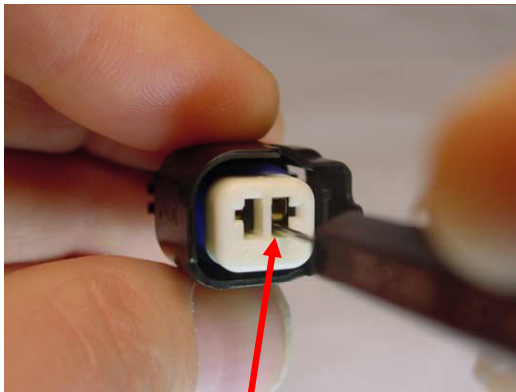
Step 3: Once the Lock finger is disengaged, gently pull on the wire to release the terminal.

If the terminal resists, the service tool may not be fully engaged. Push the service tool further into the service

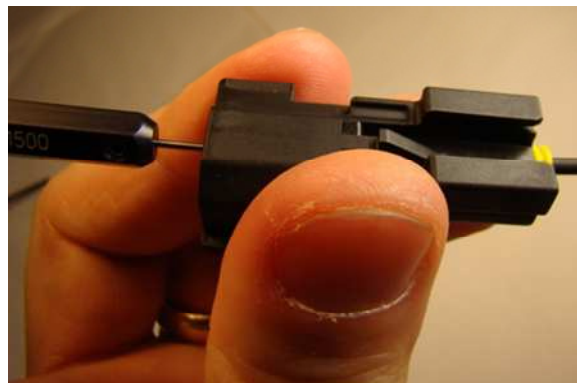
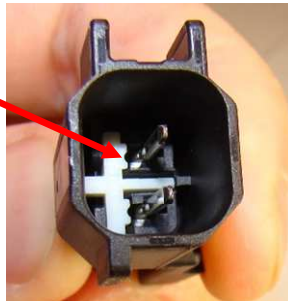
Opening to ensure that it has fully disengaged the locking finger.

Do not insert the service tool into the terminal opening!

Do not use excessive force, excessive force can damage the lock finger!



Service Ports



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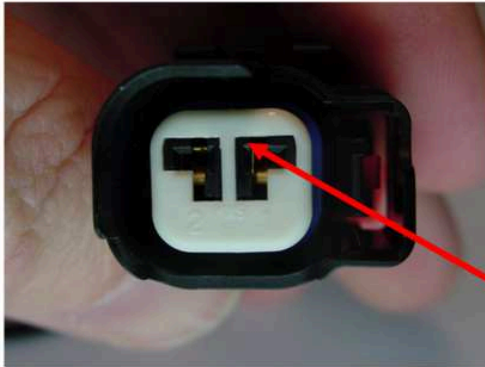


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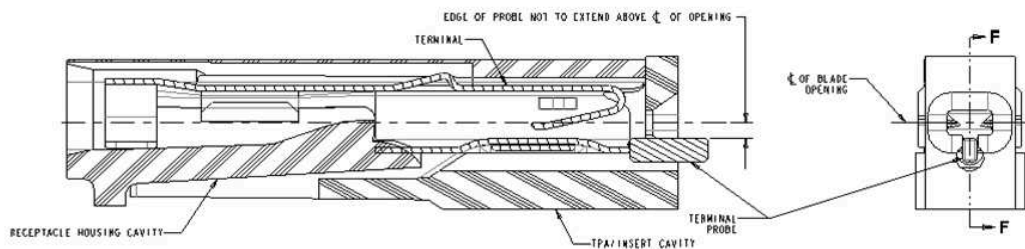
: Electrical Continuity Checking

A. Electrical continuity checking in Molex connectors

The preferred method of probing; use the Probe opening for receptacle terminal to check for electrical continuity.



Probe opening at top of cavity opening



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3.0 REFERENCE DOCUMENTS: SD-34062-002, SD-34675-001, AND PS-34062-000

4.0 PROCEDURE

4.1 GENERAL REQUIREMENTS

4.2 ASSEMBLY INSTRUCTIONS

4.3 REMOVAL INSTRUCTIONS

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