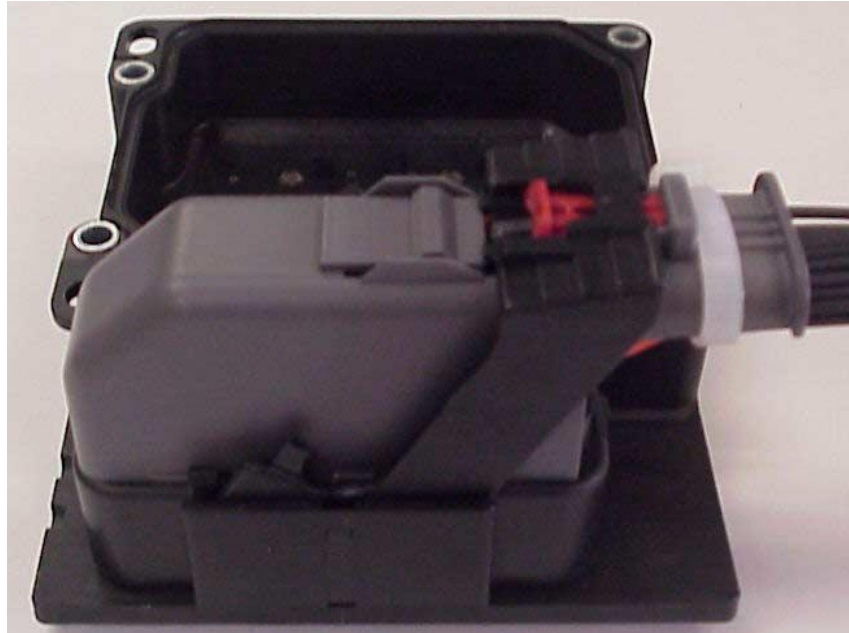




APPLICATION SPECIFICATION



USCAR Cable Seal 38-Way Connector Assembly User Manual

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Section 1: Product Introduction

Section 2: Product Summary

Section 3: Harness Assembly Instructions

Section 4: Connector Mating Instructions

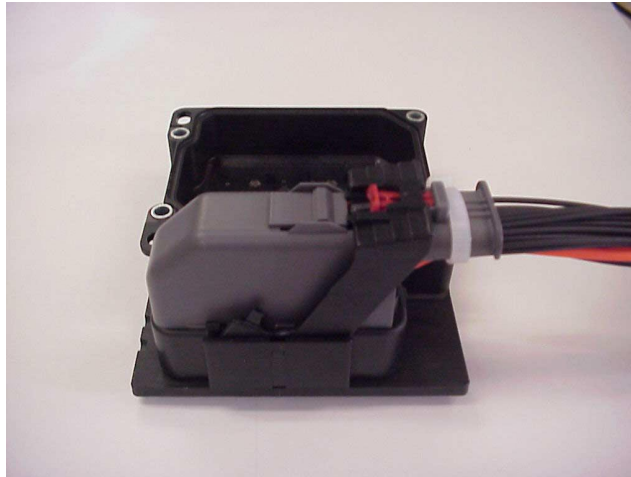
Section 5: Service Instructions

Appendix A: Document Revisions Changes

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Section 1 Product Introduction



Molex USCAR Cable Seal 38-Way Connection System:

This is a sealed connection system used in automotive applications such as ABS systems.

It allows for up to 38 terminals:

- 34x Yazaki 0.64 mm cable seal terminals and either
- 4x Delphi 2.8 mm cable seal terminals or
- 2x Delphi 2.8 mm and 2x Yazaki 6.3 mm cable seal terminals

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Section 1: Product Introduction

HIGHLIGHTS:

- Connector is sealed.
- Ground blade engages before signal circuits do.
- Connector is friendly to blind-mate conditions.
- Connector provides temporary retention to the header before the cam-assist lever arm is activated.
- Cam-assist lever arm remains in locked position until the harness connector is in pre-lock position on the header/controller.
- CPA remains in pre-lock position until cam-assist lever arm is locked closed.
- Molded sealed cavities are available for custom knock-out patterns.

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

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

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APPLICATION SPECIFICATION

Section 2 Product Summary

Connector part numbering (all terminals are cable seal):

- 31380-xxxx: harness connector assembly
 - 34x Yazaki 0.64 mm terminals
 - 2x Delphi 2.8 mm terminal
 - 2x Yazaki 6.3 mm terminals

- 31381-xxxx: harness connector assembly
 - 34x Yazaki 0.64 mm terminals
 - 4x Delphi 2.8 mm terminals

- 31382-1000: harness connector cover
 - xxxx varies depending on:
 - Lever orientation
 - Molded sealed cavities

Terminals part numbering:

- 0.64: Yazaki Kaizen (cable seal) P/Ns: X40316-B964/965
- 2.8: Delphi GT280 P/N: 15304720
- 6.3: Yazaki YESC 6.3mm P/N: 7116-4142-02

Contact terminal manufacturer for crimp and cable seal specifications

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Section 2 Product Summary

Terminals used

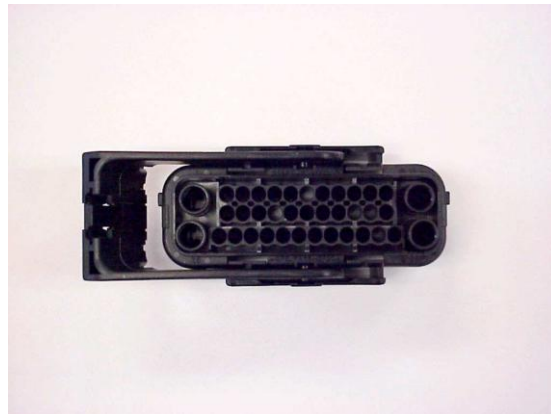
31380-xxxx:

- 34x Yazaki 0.64 mm terminals
- 2x Delphi 2.8 mm terminal
- 2x Yazaki 6.3 mm terminals



31381-xxxx:

- 34x Yazaki 0.64 mm terminals
- 4x Delphi 2.8 mm terminals



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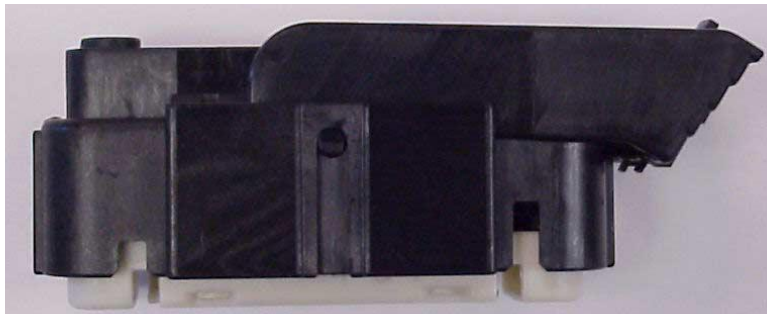


APPLICATION SPECIFICATION

Section 2 Product Summary

Lever orientation

**Lever to the right (when looking at top side)
– Lever rotates CCW**



Note: top side identified by notches on housing

**Lever to the left (when looking at the top side)
– Lever rotates CW**



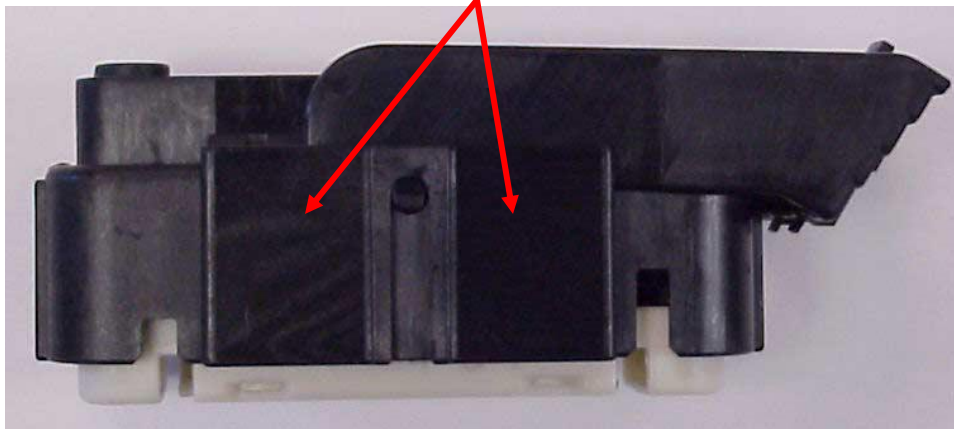
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Section 2 Product Summary

Product Identification Connector assembly

- MOLEX P/N
- Date Code DDDY
DDD = day of year
Y= last digit of year
- Serial Number



Cover
- Molex P/N



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Section 2 Product Summary

Shipping

Connector assembly

- Shipped in compartmentalized box with TPA and lever arm in prelock Positions



Cover

- Shipped separately



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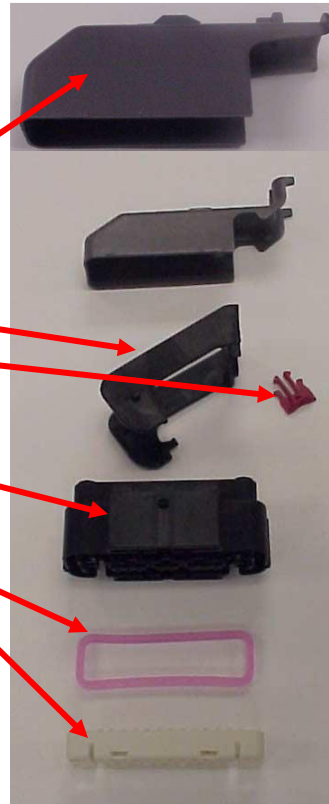


APPLICATION SPECIFICATION

Section 2 Product Summary

Exploded components

- Dress Cover (shipped separately)
- Lever Arm
- Connector Position Assurance (CPA)
- Connector Housing
- Perimeter Seal
- Terminal Position Assurance (TPA)



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APPLICATION SPECIFICATION

Section 2 Product Summary

Terminals used in 38 Way System

Yazaki 0.64 cable seal



Delphi 2.8 cable seal



Yazaki 6.3 cable seal



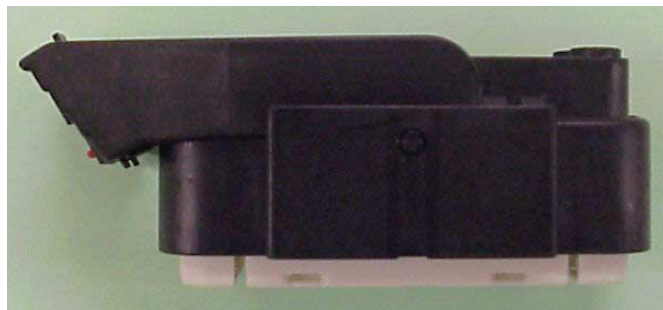
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Section 3: Harness Assembly

TPA Position

– TPA must be in pre-lock position (as shipped) prior to terminal insertion. If not, pry TPA using small flat screwdriver (see instructions in Section 5)



TPA in pre-lock position (as shipped)



TPA partially seated



TPA totally seated

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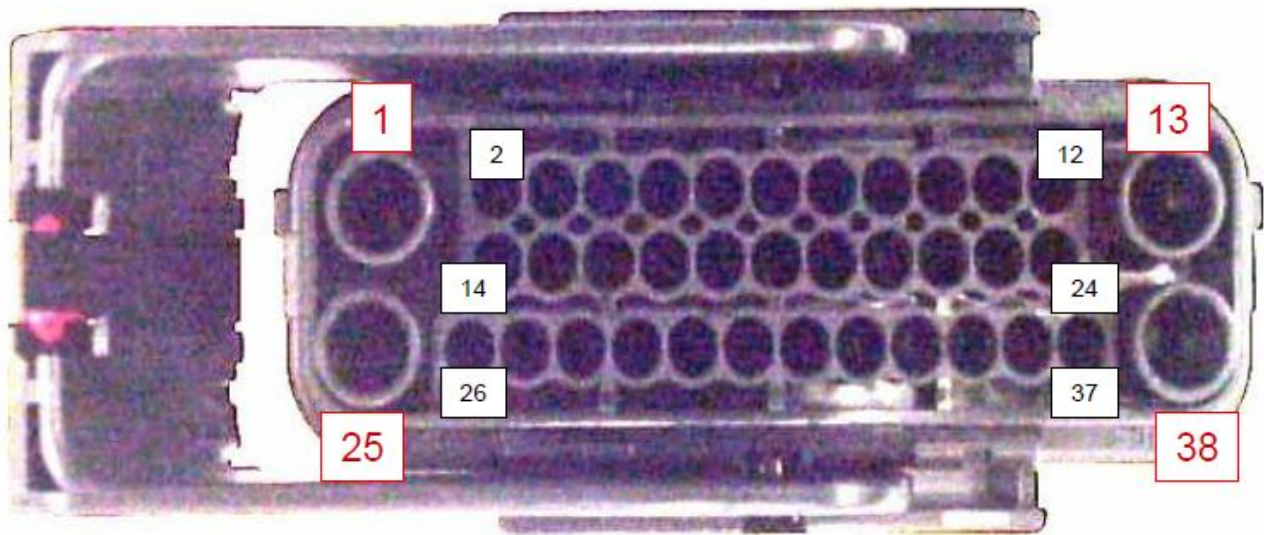


APPLICATION SPECIFICATION

Section 3: Harness Assembly

Cavities/Circuits Numbering Scheme

– Note: numbers 1, 13, 25, 38 are molded in actual part



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APPLICATION SPECIFICATION

Section 3: Harness Assembly

Yazaki 0.64 cable seal terminal insertion



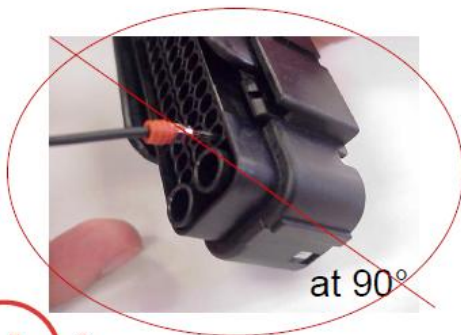
approach

GOOD!

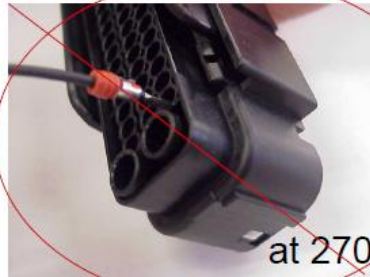


correct insertion

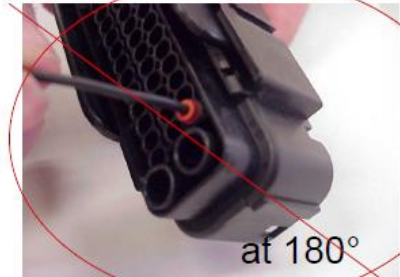
BAD!



at 90°



at 270°



at 180°

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Section 3: Harness Assembly

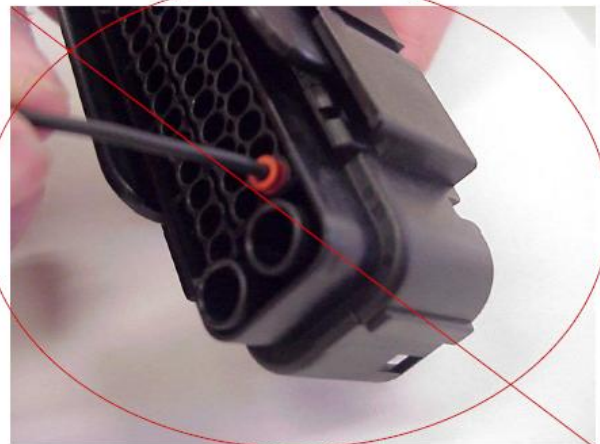
Yazaki 0.64 cable seal terminal insertion

- Only when properly oriented and fully inserted can the terminal be properly seated (locked).
- There is an audible and tactile feedback (“click”) to help determine if properly seated.
- Pull back wired terminal to make sure terminal is fully seated.

BEWARE!: at 180° the terminal can appear to be fully inserted but not locked. Cable seal may “fool” operator to believe terminal is properly inserted. However, TPA will not seat in this condition.



GOOD!



BAD!

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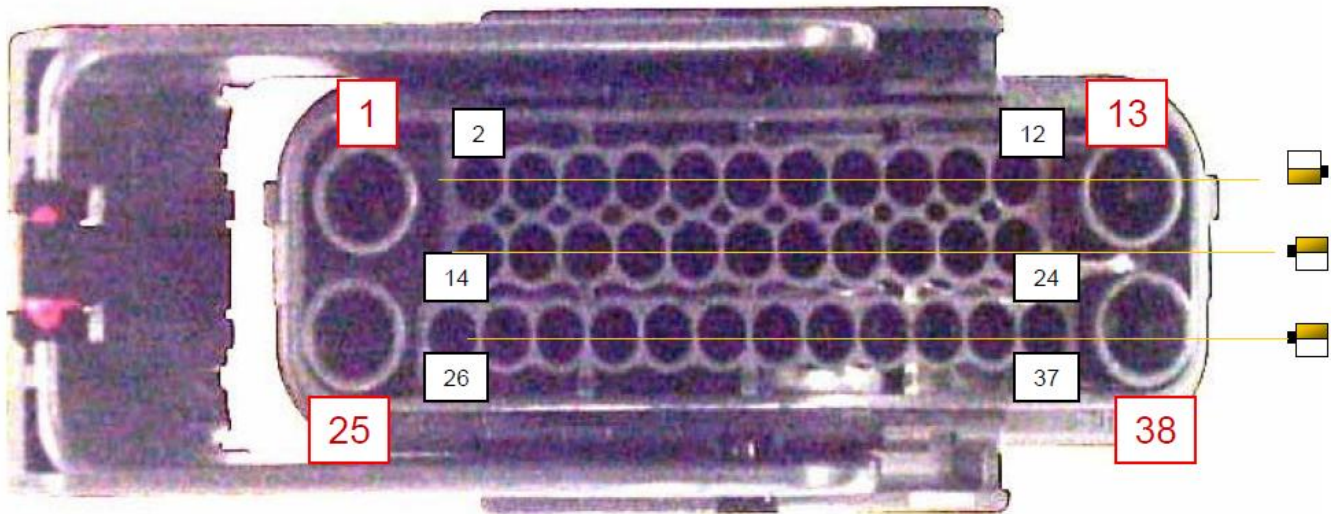


APPLICATION SPECIFICATION

Section 3: Harness Assembly

Yazaki 0.64 cable seal terminal insertion

BEWARE! terminal orientation varies with rows



Orientation tab to the right (wire side view)

Orientation tab to the left (wire side view)

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APPLICATION SPECIFICATION

Section 3: Harness Assembly

Delphi 2.8 cable seal terminal insertion



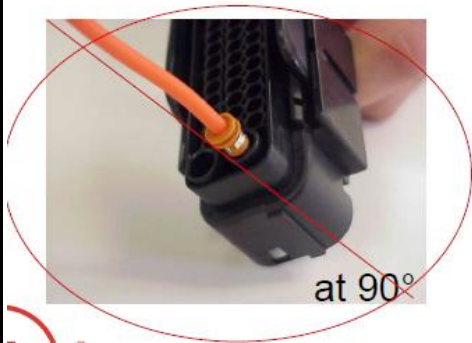
approach

GOOD!

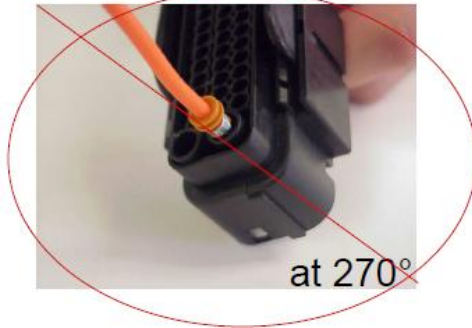


correct insertion

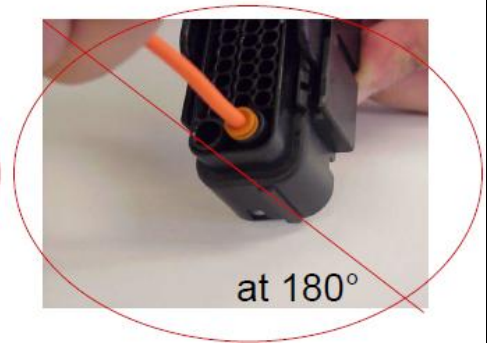
BAD!



at 90°



at 270°



at 180°

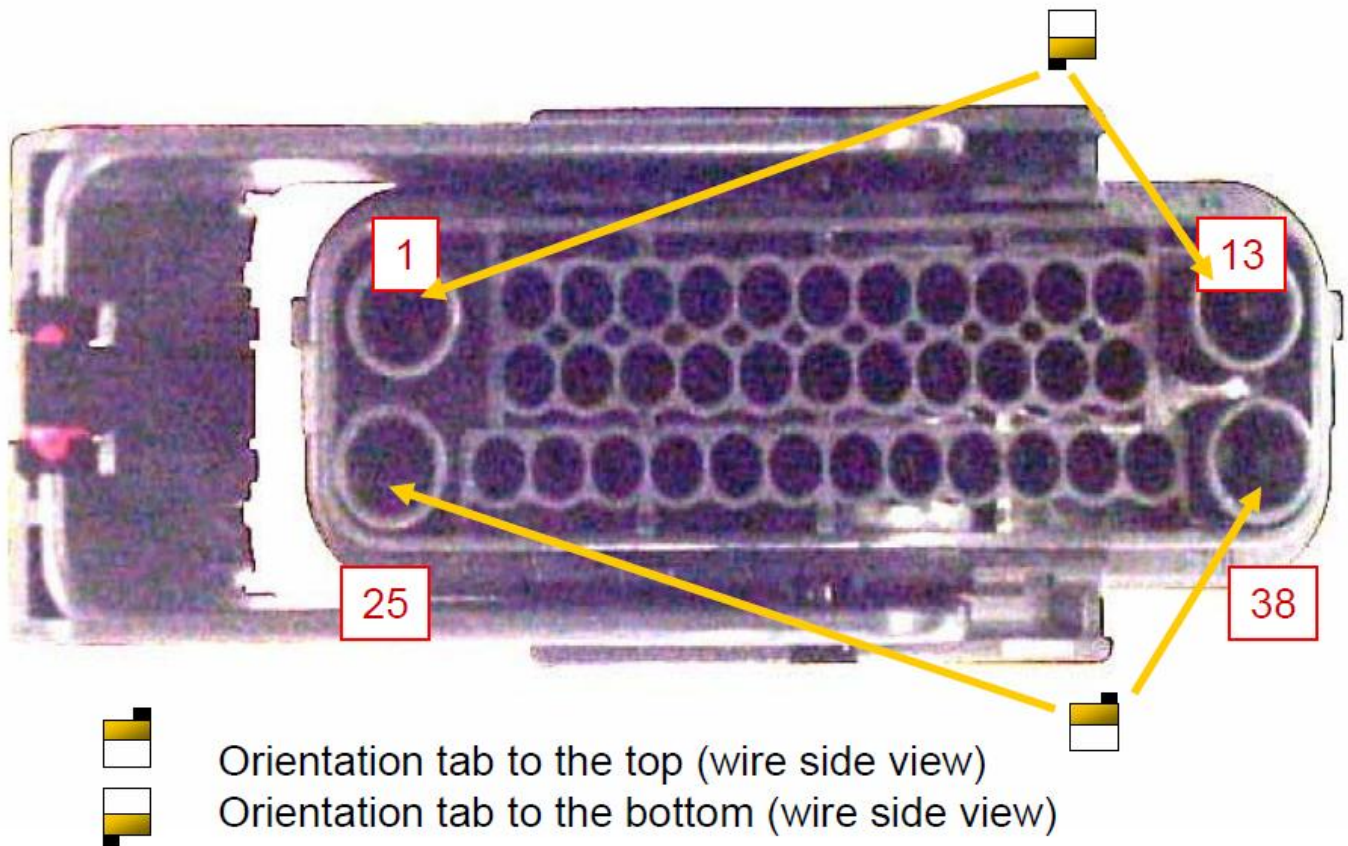
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APPLICATION SPECIFICATION

Section 3: Harness Assembly

Delphi 2.8 cable seal terminal insertion
BEWARE! terminal orientation varies with rows



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APPLICATION SPECIFICATION

Section 3: Harness Assembly

Yazaki 6.3 cable seal terminal insertion



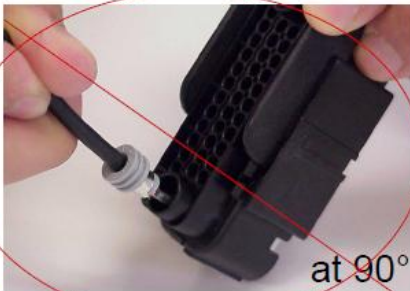
approach



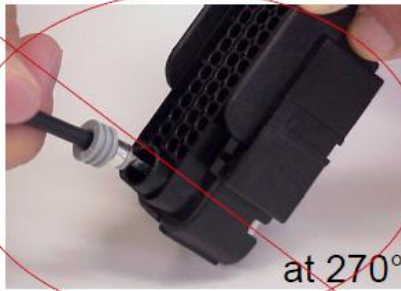
correct insertion

GOOD!

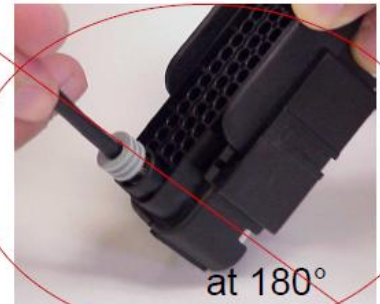
BAD!



at 90°



at 270°



at 180°

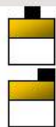
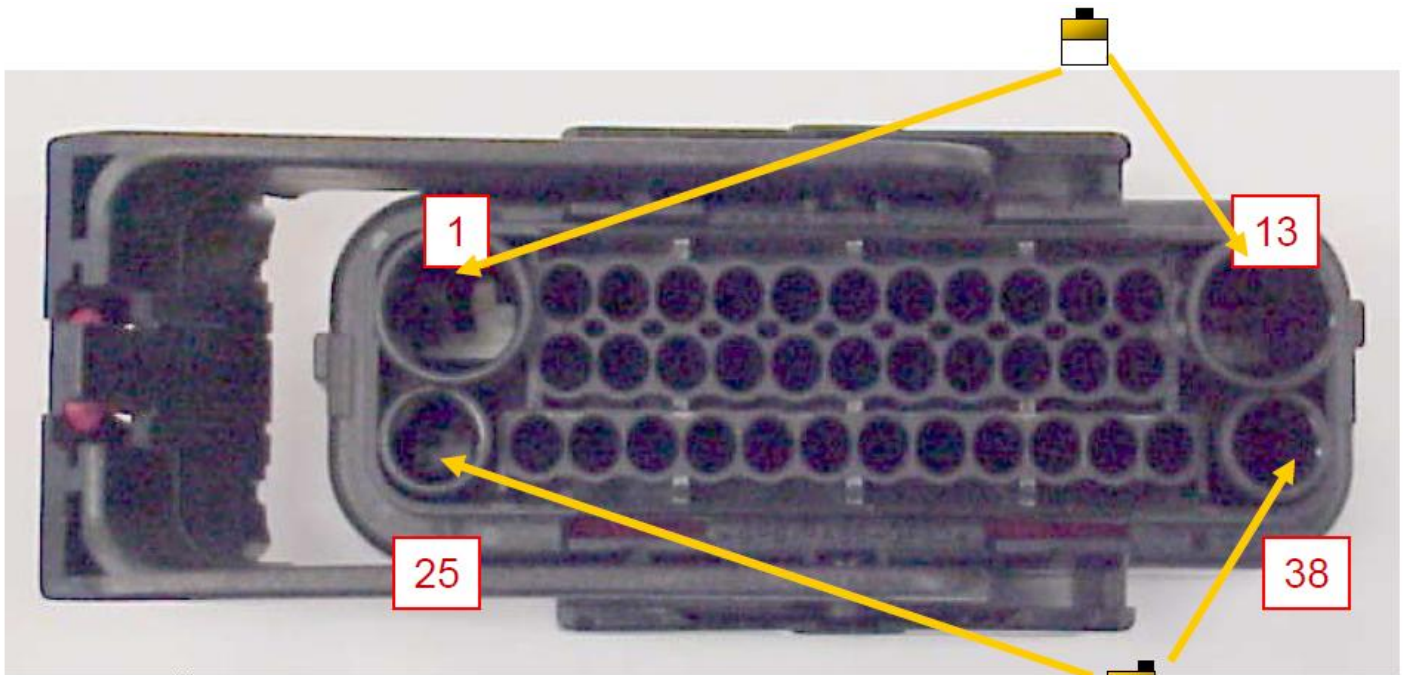
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APPLICATION SPECIFICATION

Section 3: Harness Assembly

Yazaki 6.3 cable seal terminal insertion
Delphi 2.8 cable seal terminal insertion



6.3 terminal: Orientation tab to the top (wire side view)

2.8 terminal: Orientation tab to the top (wire side view)

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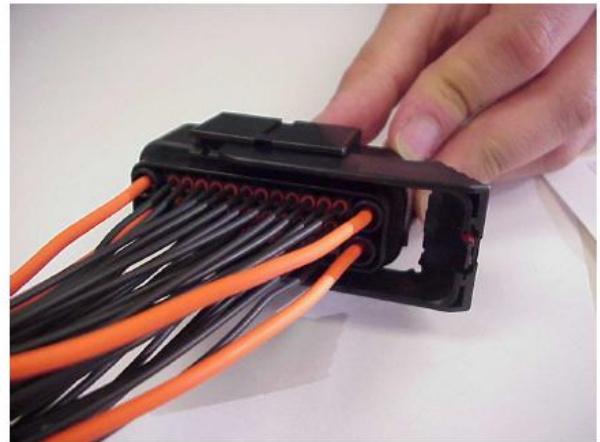
Section 3: Harness Assembly

Wire population

- Start on one end and continue to the other one.



Initial steps



Fully populated

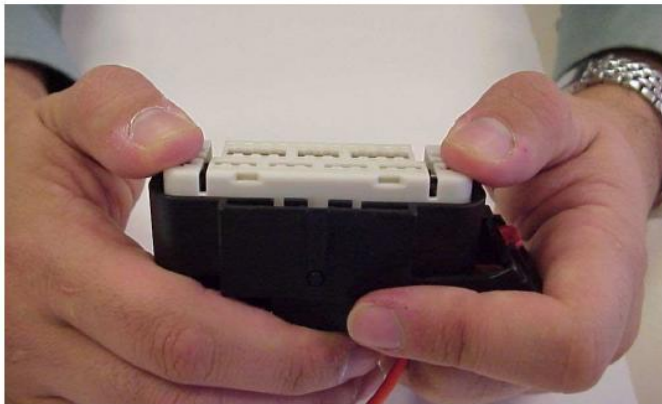
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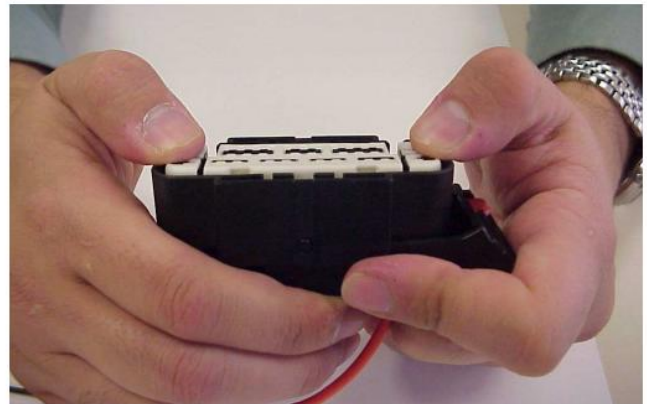
Section 3: Harness Assembly

TPA Seating

- With the terminals fully seated, the TPA can be closed.
- Press uniformly at both ends as shown.



Initial steps



Fully populated

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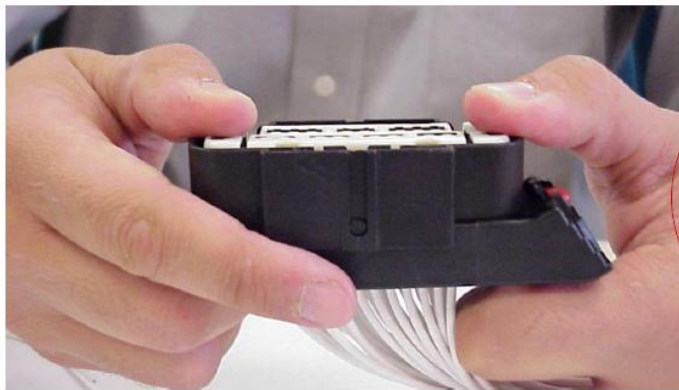


Section 3: Harness Assembly

TPA Seating

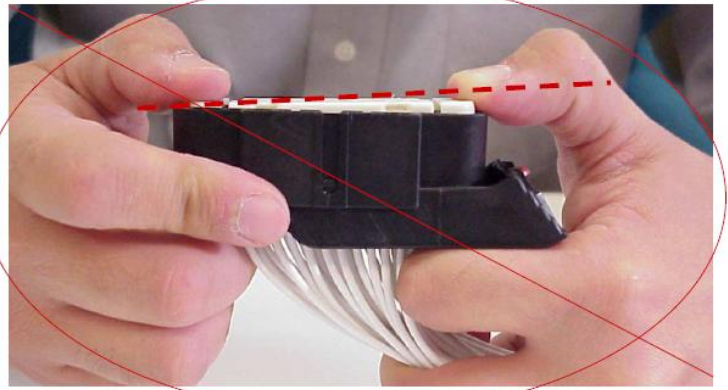
– If TPA cannot be fully seated, at least one terminal is not fully inserted (unseated)

GOOD!



Seated terminals

BAD!



Unseated terminal

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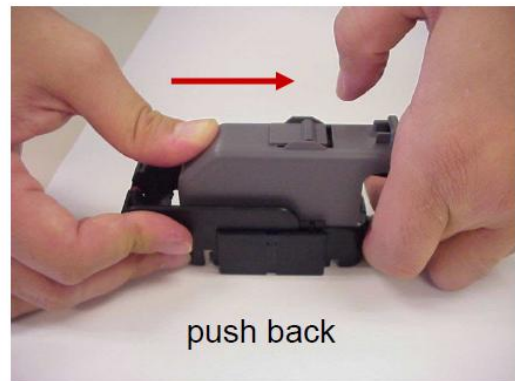
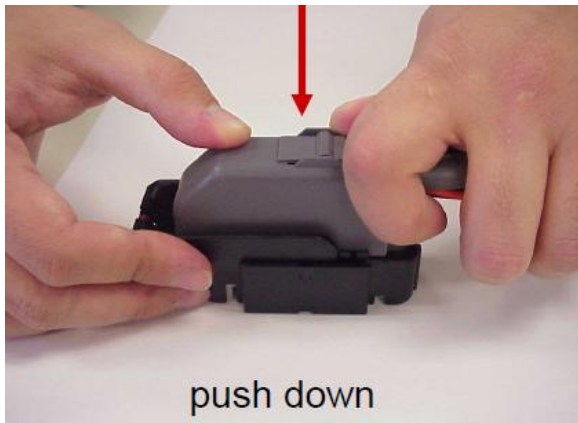


APPLICATION SPECIFICATION

Section 3: Harness Assembly

Cover Installation

- Approach
- Push down
- Push back



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APPLICATION SPECIFICATION

Section 3: Harness Assembly

Detailed Cover installation: Approach



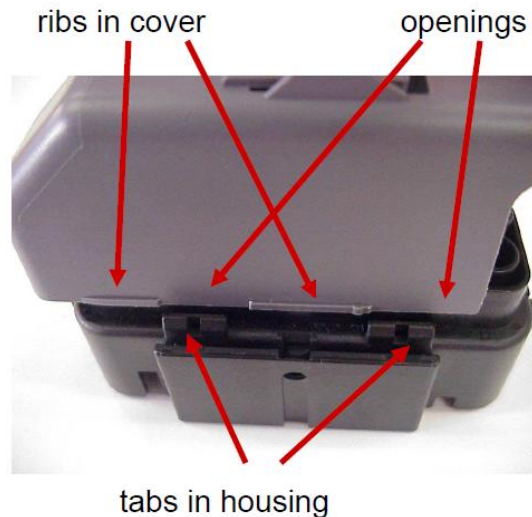
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DOCUMENT NUMBER: AS-31380-001	CREATED / REVISED BY: T. Skiver	CHECKED BY: V. Koshy	APPROVED BY: V. Koshy



Section 3: Harness Assembly

Detailed Cover Installation:

Push down Align openings in ribs in cover with tabs in housing



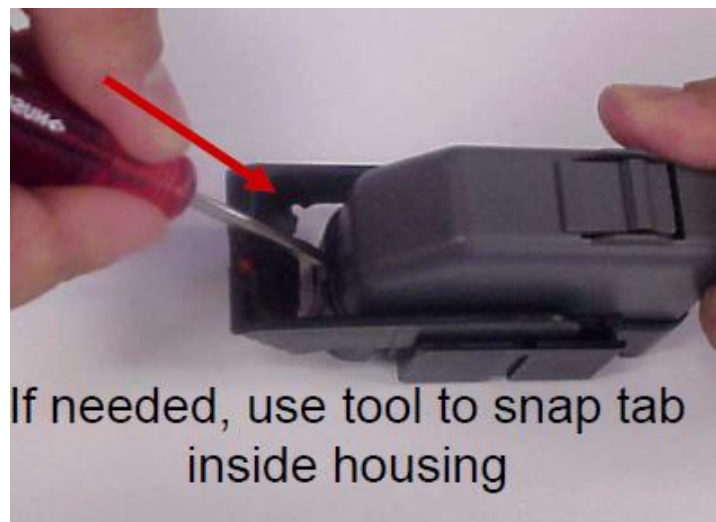
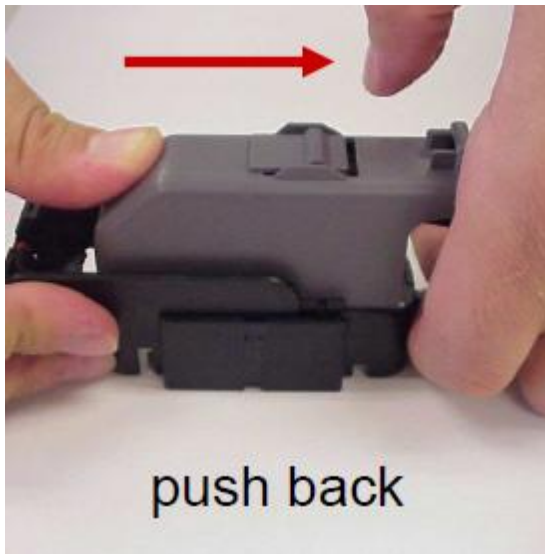
Lever arm omitted in bottom pictures for clarity

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Section 3: Harness Assembly

Detailed Cover Installation: Push back make sure that cover (and its front tab) are totally seated



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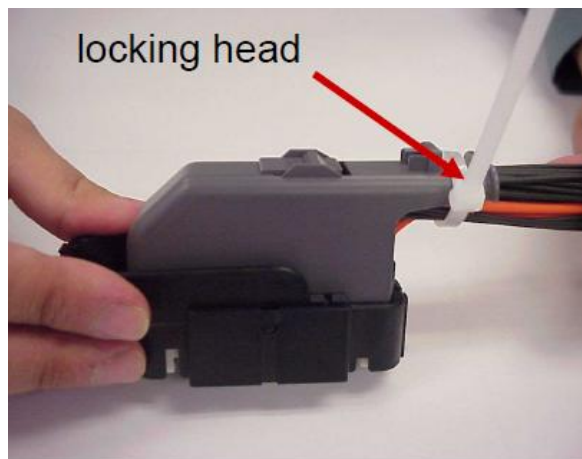


Section 3: Harness Assembly

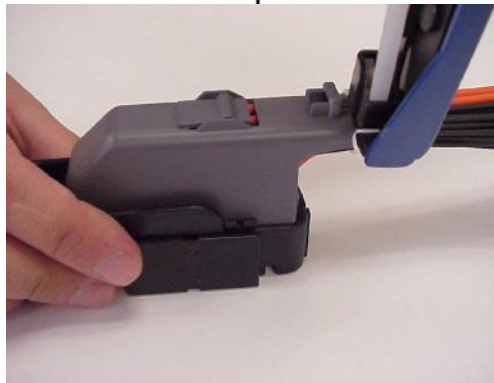
Wire bundling dressing

– Use tie wrap around wire tab in cover

Make sure that locking head is above plastic to avoid damaging wires



Tie wrap installation



Tie wrap cut

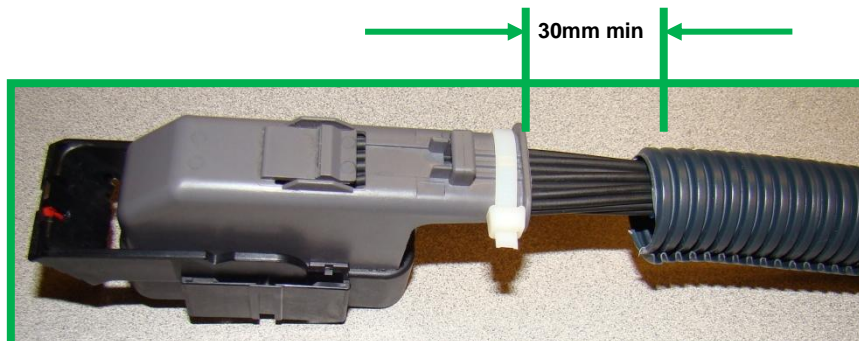
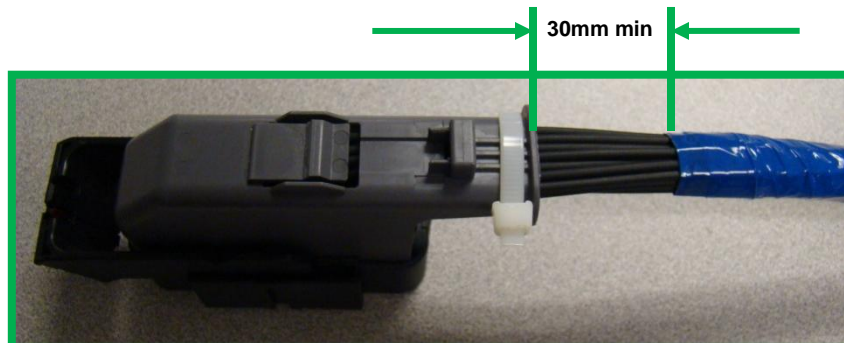
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DOCUMENT NUMBER: AS-31380-001	CREATED / REVISED BY: T. Skiver	CHECKED BY: V. Koshy	APPROVED BY: V. Koshy



Section 3: Harness Assembly

Adding Tape or Wire Dress to the harness

– Adding Tape or Wire Dress to the wire harness should start 30mm from the back of the wire dress cover.



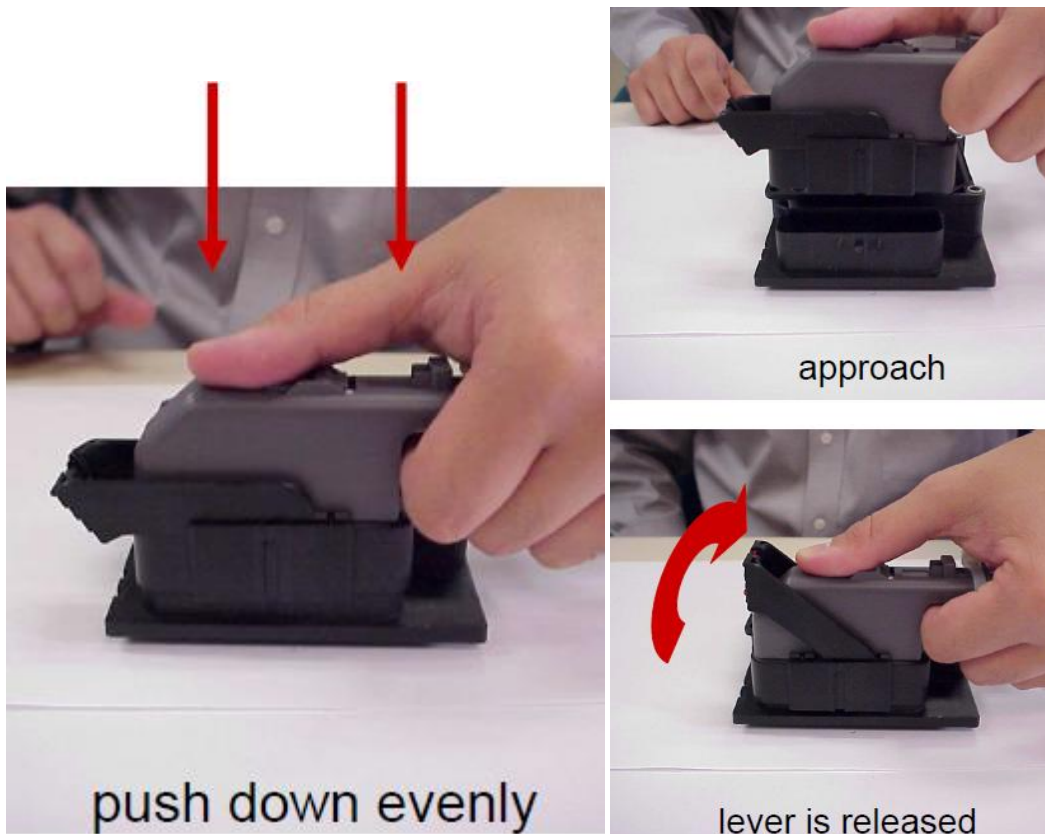
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Section 4: Connector Mating and Unmating

Mating to header/module

- Approach
- Push down to pre-lock position
- Release lever



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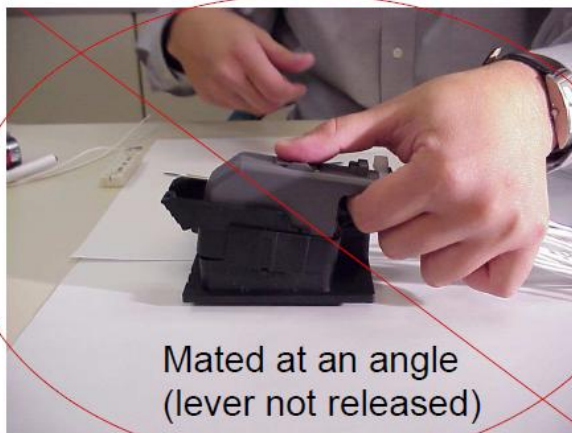
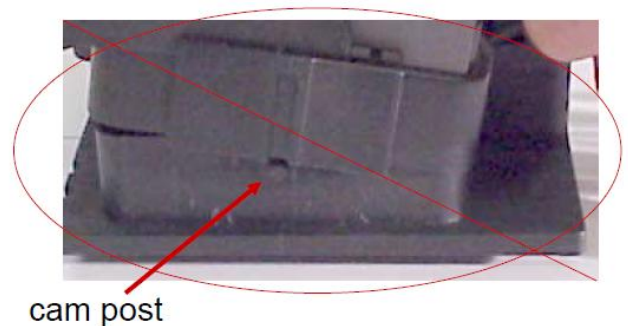


APPLICATION SPECIFICATION

Section 4: Connector Mating and Unmating

Beware!

If inserted at an angle, either lever or cam post can break

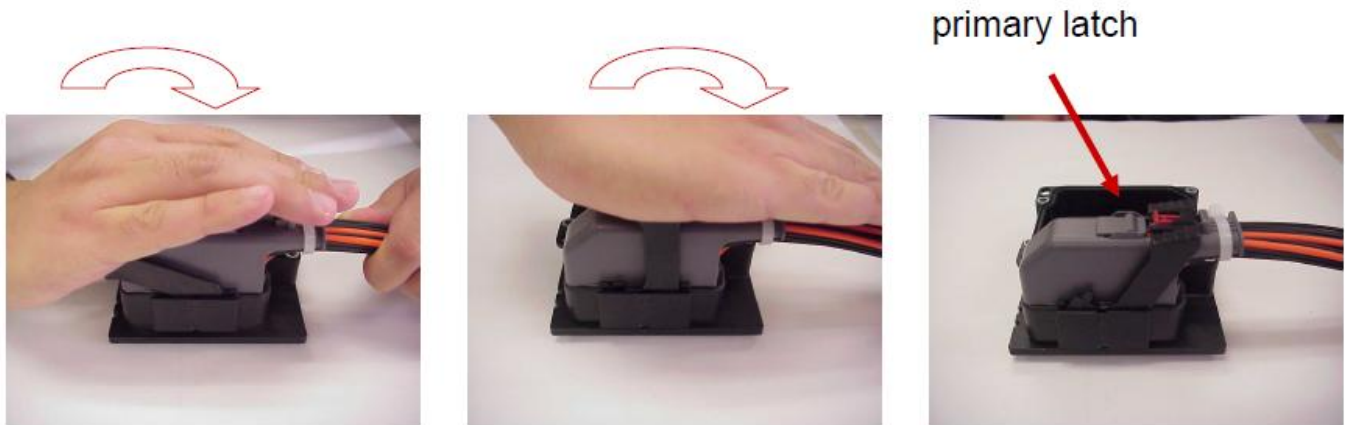


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Section 4: Connector Mating and Unmating

Mating to header/module: Engage
– Fully rotate lever arm till locked (primary latch in cover activated)



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Section 4: Connector Mating and Unmating

**Mating to header/module: Seat CPA
– Push CPA to final position**



Push CPA



Final position

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Section 4: Connector Mating and Unmating

Unmating: Unlock CPA and Release primary latch

- Push CPA
- Push down primary latch to release

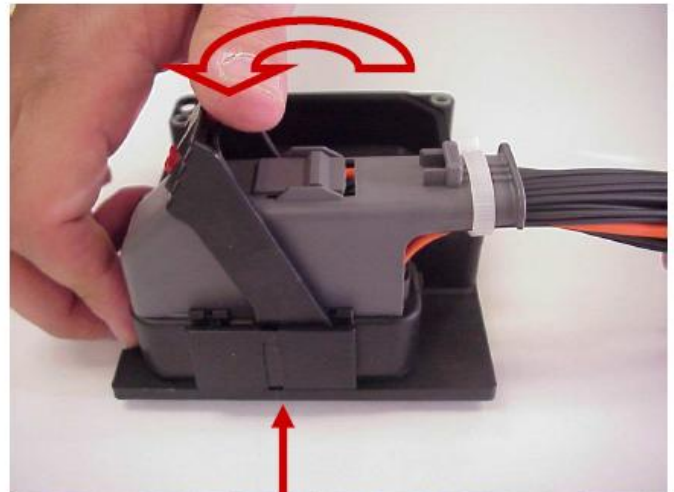
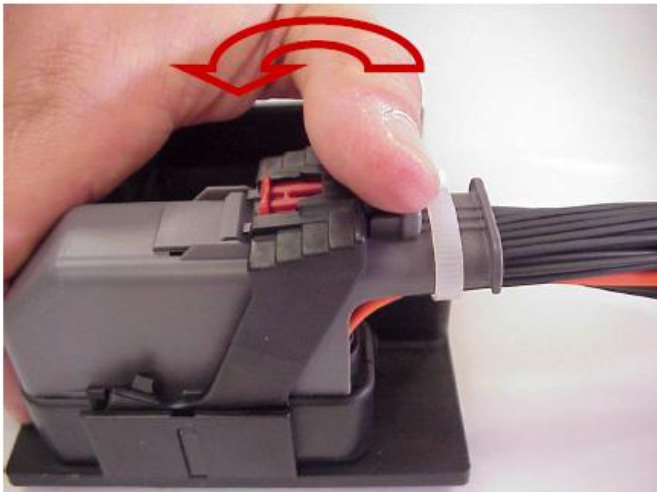


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Section 4: Connector Mating and Unmating

Unmating: Remove from module



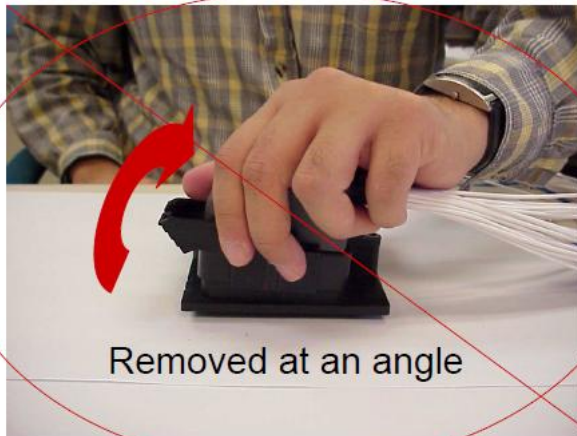
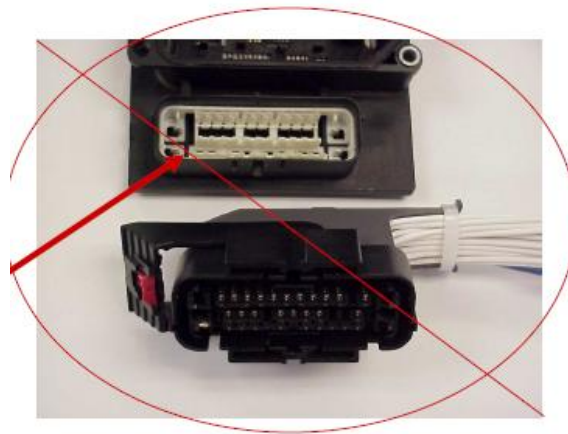
REVISION: B1	ECR/ECN INFORMATION: EC No: UAU2015-0906 DATE: 12/09/2014	TITLE: USCAR Cable Seal 38-Way connector	SHEET No. 35 of 43
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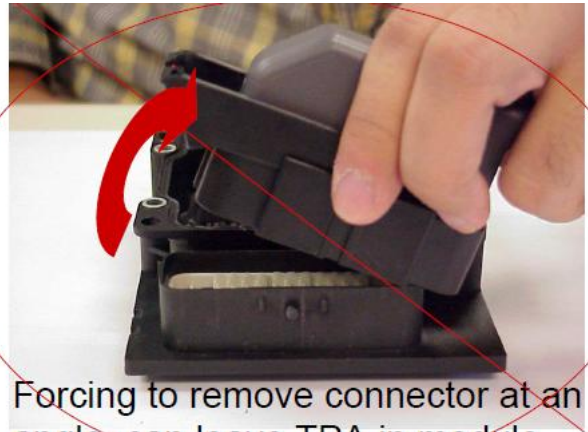
Section 4: Connector Mating and Unmating

Beware!

If connector is removed at an angle,
TPA can get trapped in module



Removed at an angle



Forcing to remove connector at an angle, can leave TPA in module

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Section 5: Service Instructions

Cut Tie wrap

– Cut on top of wire tab to avoid damaging wires



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APPLICATION SPECIFICATION

Section 5: Service Instructions

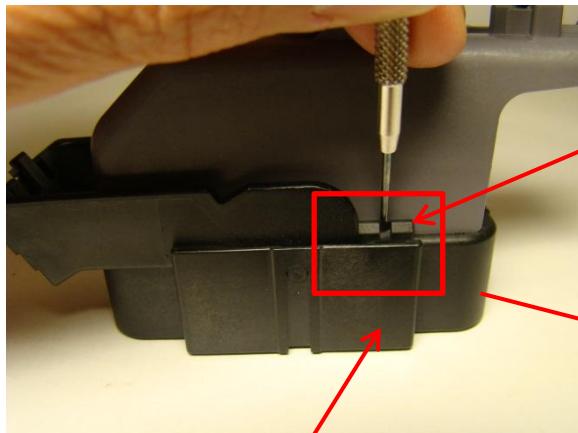
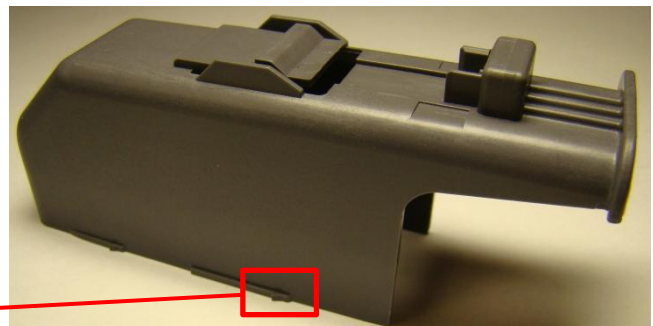
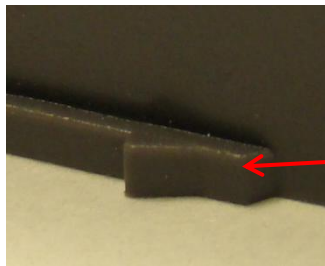
Remove Cover

– Using a small, flat tip screwdriver (no wider than 1.75mm), break the “tabs” located on the wire dress end of the cover to facilitate removal (both sides).

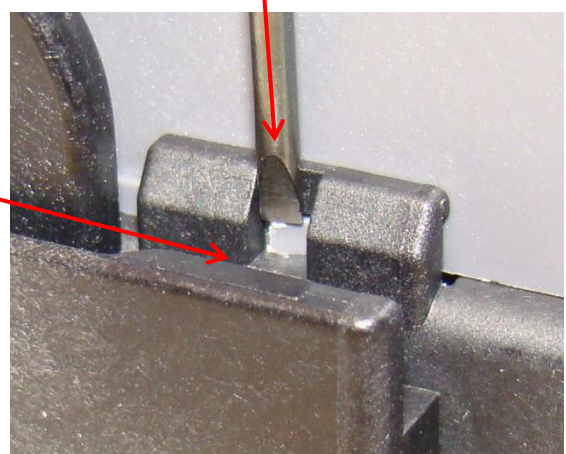
Care must be taken to avoid damaging the “retention feature” on the main body of the connector.

The “Cover” must be replaced if it is removed from the connector.

Detail views of the Cover “tabs”



Insert small screwdriver in to the opening of the connector “retention feature” and press down to break off the cover tab (2 locations)



Connector main body

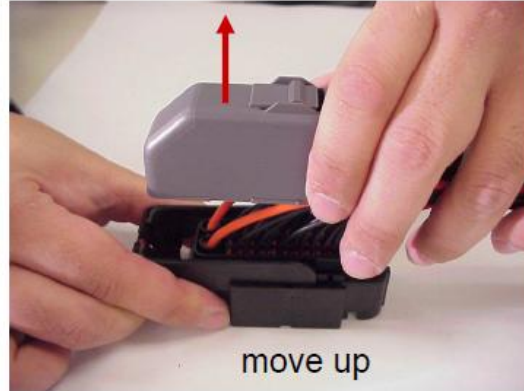
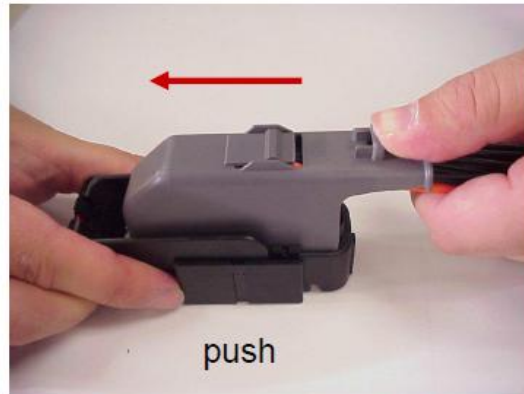
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APPLICATION SPECIFICATION

Section 5: Service Instructions

Remove Cover
 – Push (could be hard)
 – Stop
 – Move up
DISCARD COVER!



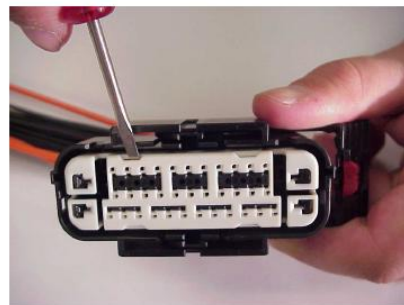
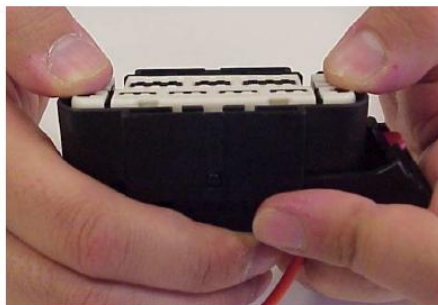
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Section 5: Service Instructions

Remove TPA

- TPA should be fully seated and has to be removed.
- Use a small screw driver and pry on slots provided in TPA



Remove TPA

- Pry on opposite sides of TPA

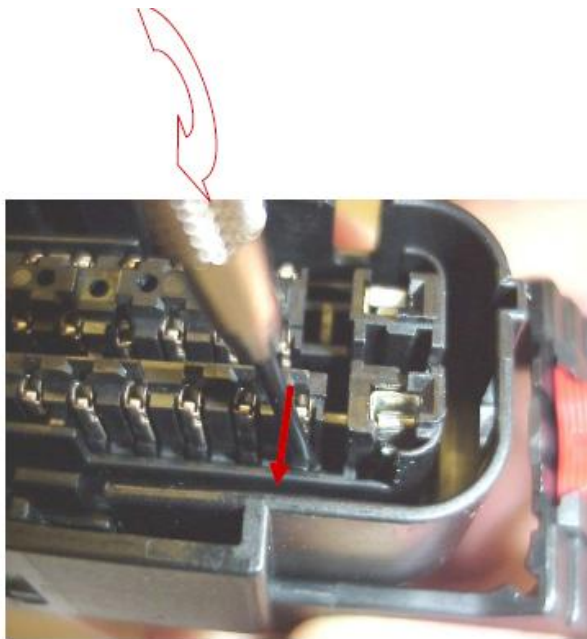


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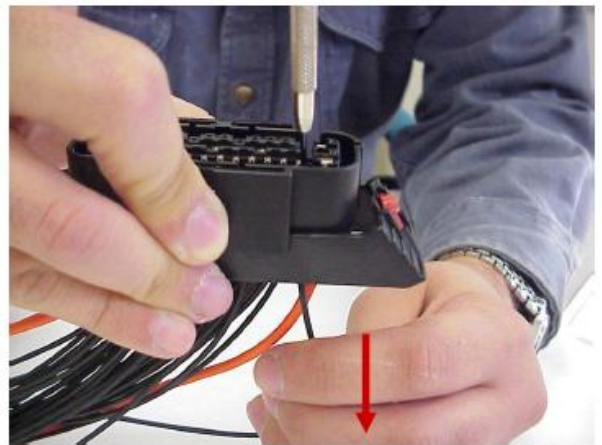
Section 5: Service Instruction

Remove Yazaki 0.64 cable seal terminal

- Use a small flat screwdriver to release terminal
- Note: orientation of terminal varies with location



Release locking finger



Pull wired terminal

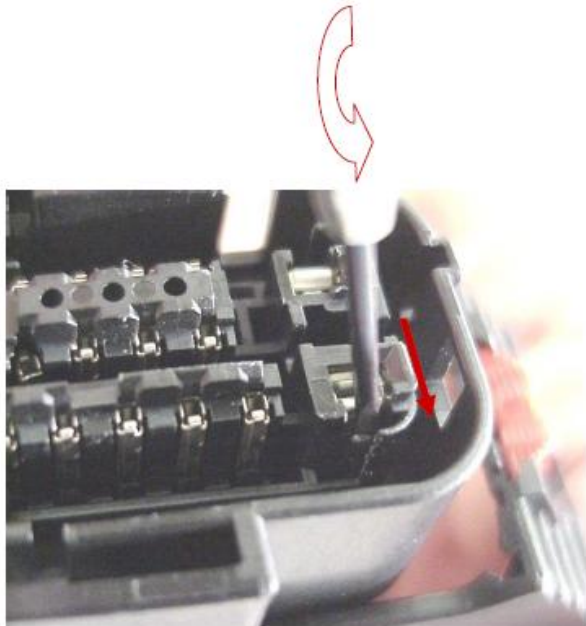
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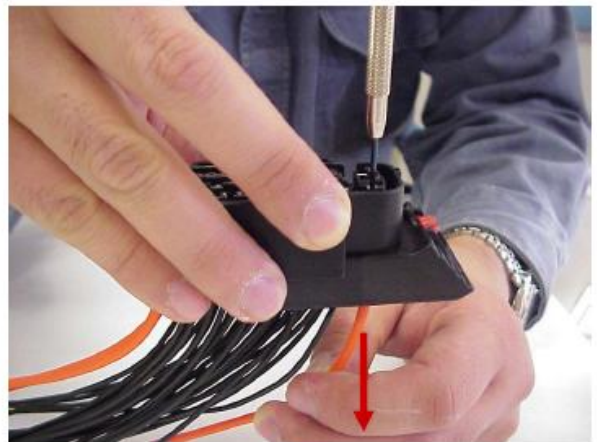
Section 5: Service Instruction

Remove Delphi 2.8 cable seal terminal

- Use a small flat screwdriver to release terminal
- Note: orientation of terminal varies with location



Release locking finger



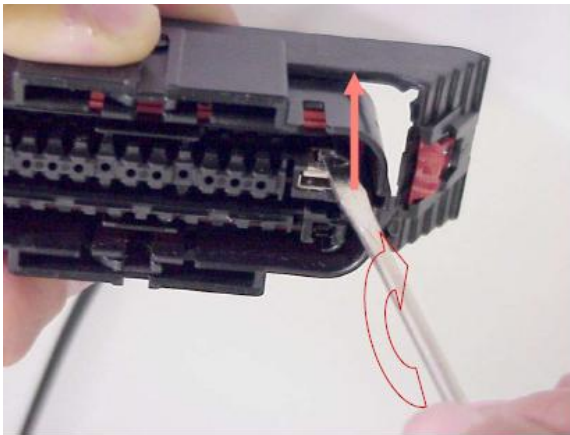
Pull wired terminal

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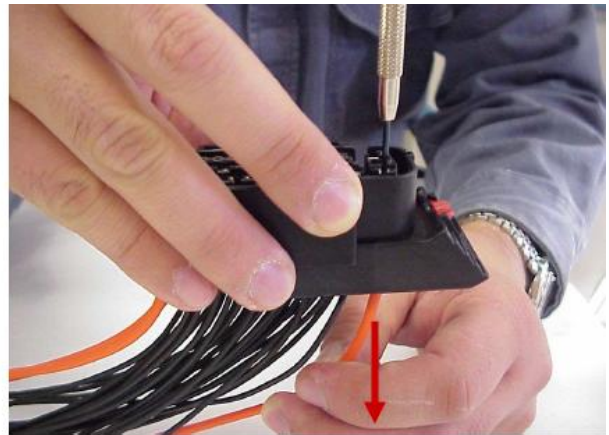


Section 5: Service Instruction

Remove Yazaki 6.3 cable seal terminal
– Use a small flat screwdriver to release terminal



release locking finger



pull wired terminal

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