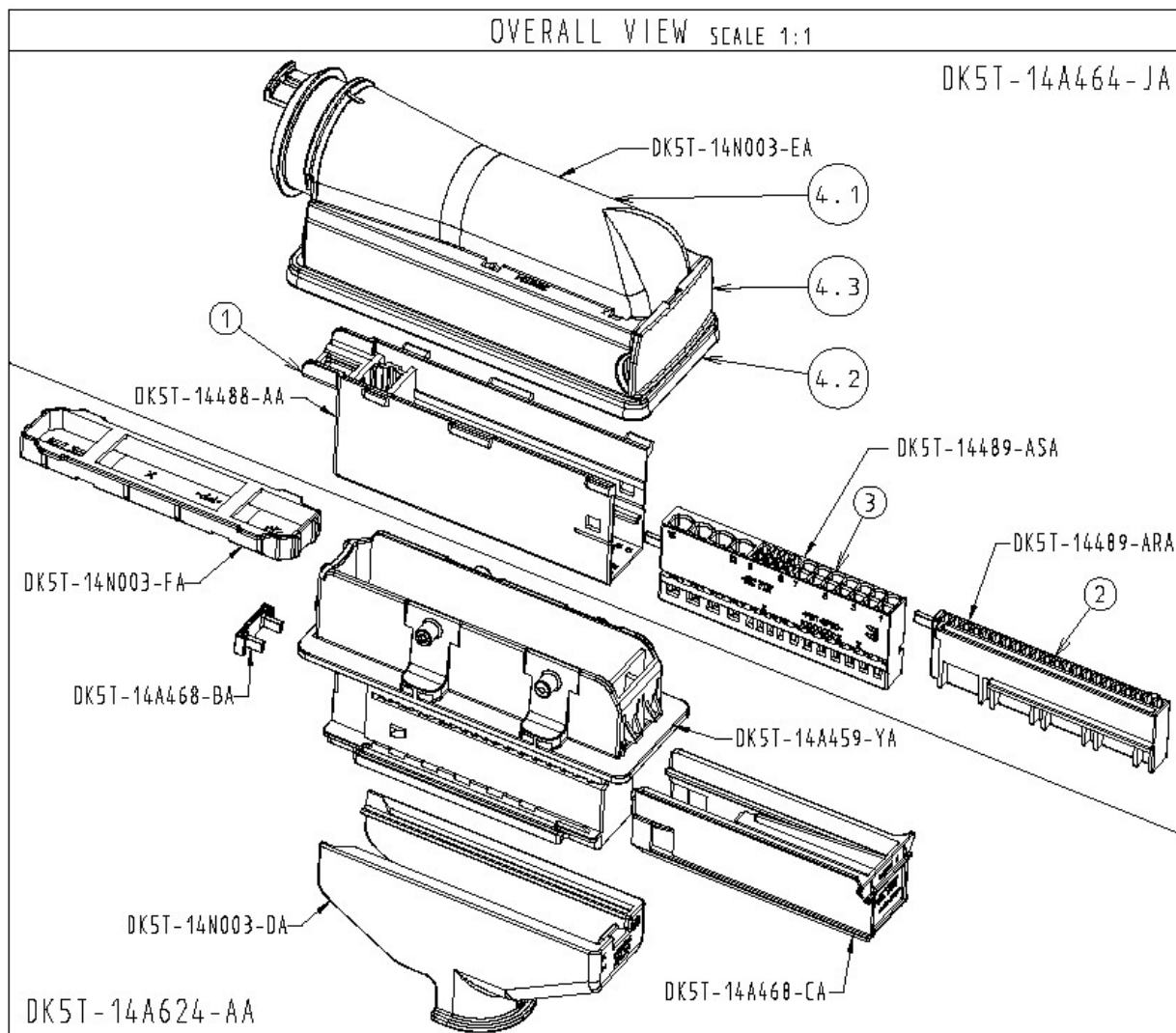




48Way Door to Body Inline Connector for JLR





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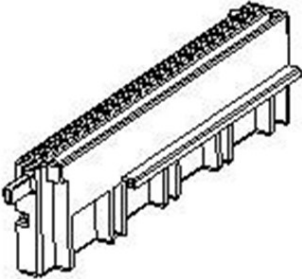
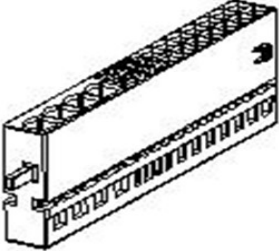

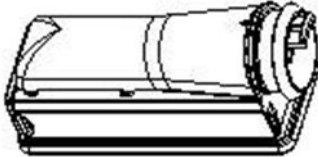
1. GENERAL

1.1 Description

This application specification describes the handling of terminals and components of the *49-way Door to Body Inline Connector for JLR*

This application specification also shows the mounting sequence of the connector at car manufacturer.

1.2 Product overview

	DESCRIPTON	PICTURE (not scaled)	Drawing No. Zeichngs. Nr.
FEMALE CONNECTOR	Female housing 22 way, MQS		2141677
	Female housing 26 way, mixed		2141678
	Cover for 49-way female housing		2141676
	Cover slider assembly, female housing 49 way		2141673

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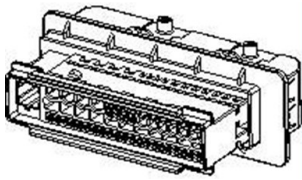
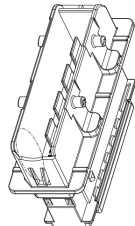
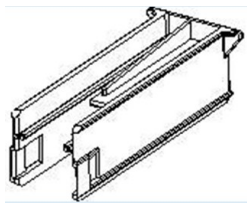
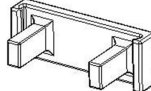
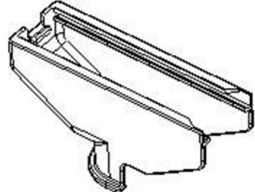
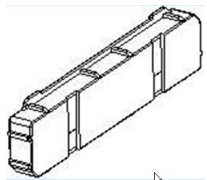
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	DESCRIPTON	PICTURE (not scaled)	Drawing No. Zeichngs. Nr.
MALE CONNECTOR	Male housing 49 way		2141668
	49 pos. mixed pin housing, MQS, MPQ, JAE (For reduced sheet metal thickness 0.795 +0.175/-0.1)		2141668 (PN:2141668-3)
	Retainer for 49-way male housing		2141669
	Retainer for JAE-MX49, male housing		2141670
	Wire cover for 49-way male housing		2141672
	Protection cap for male housing 49 way		2141679

1.3 Applicable terminals

See JLR drawing DK5T-14A464-JA and DK5T-14A624-AA

1.4 Auxiliary tools

Terminal extraction tool PN 1355968

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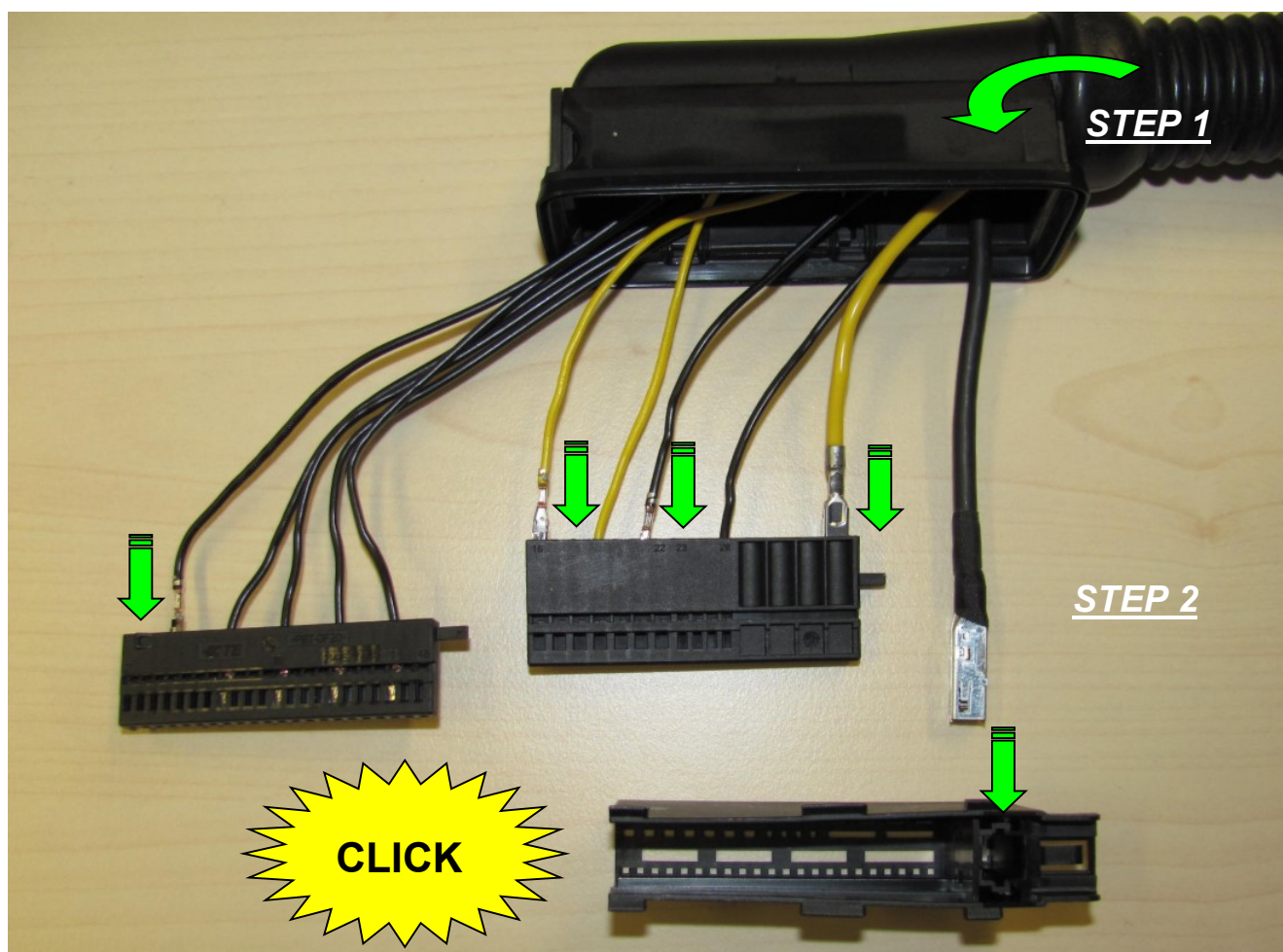
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2. TERMINAL LOADING AND ASSEMBLY OF THE FEMALE CONNECTOR

2.1 Terminal loading into 22- & 26-way female housings

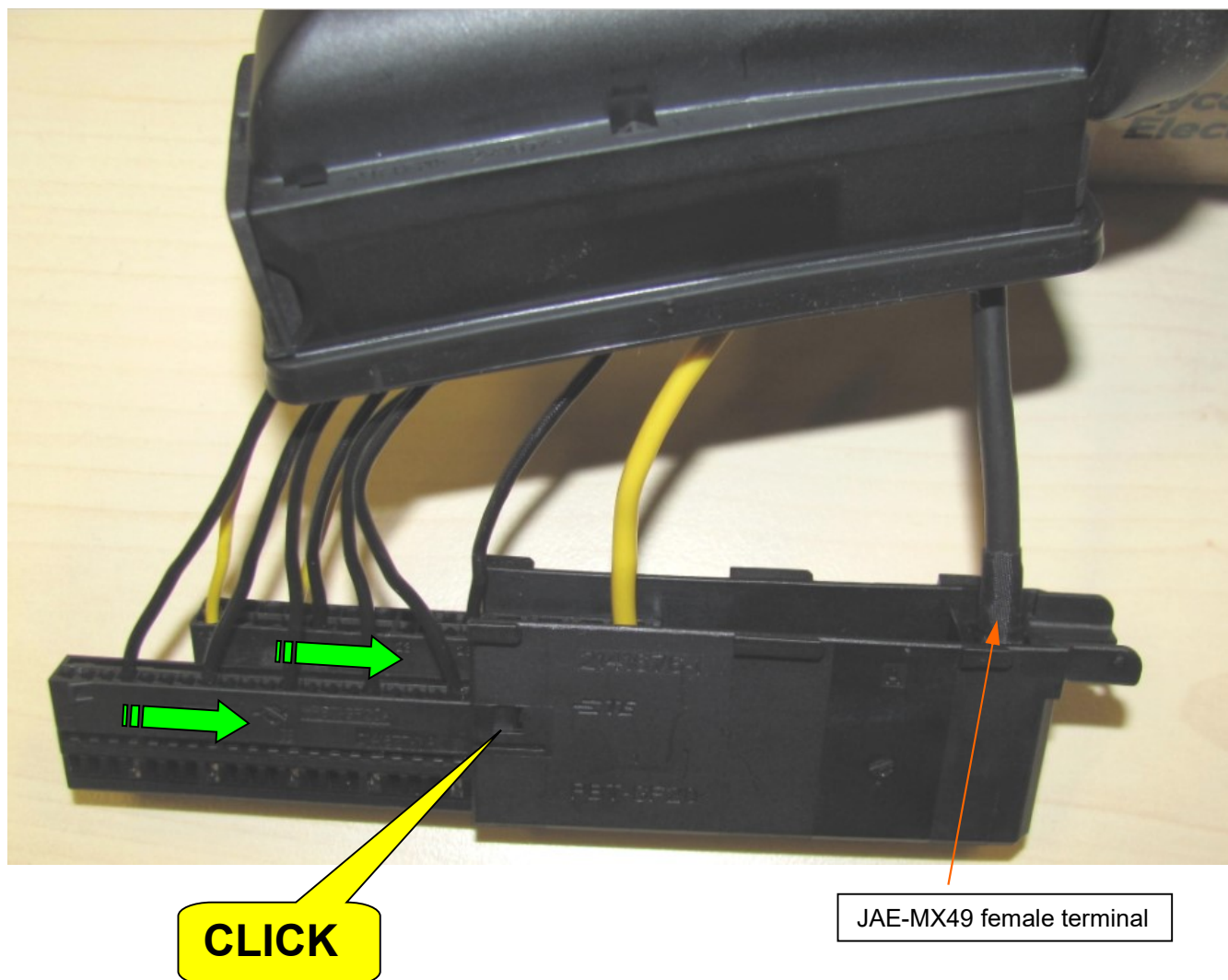


STEP 1: pass all wires with crimped terminals through the cover slider assembly.

STEP 2: load all terminals by inserting them into the appropriate contact cavity until “CLICK”.

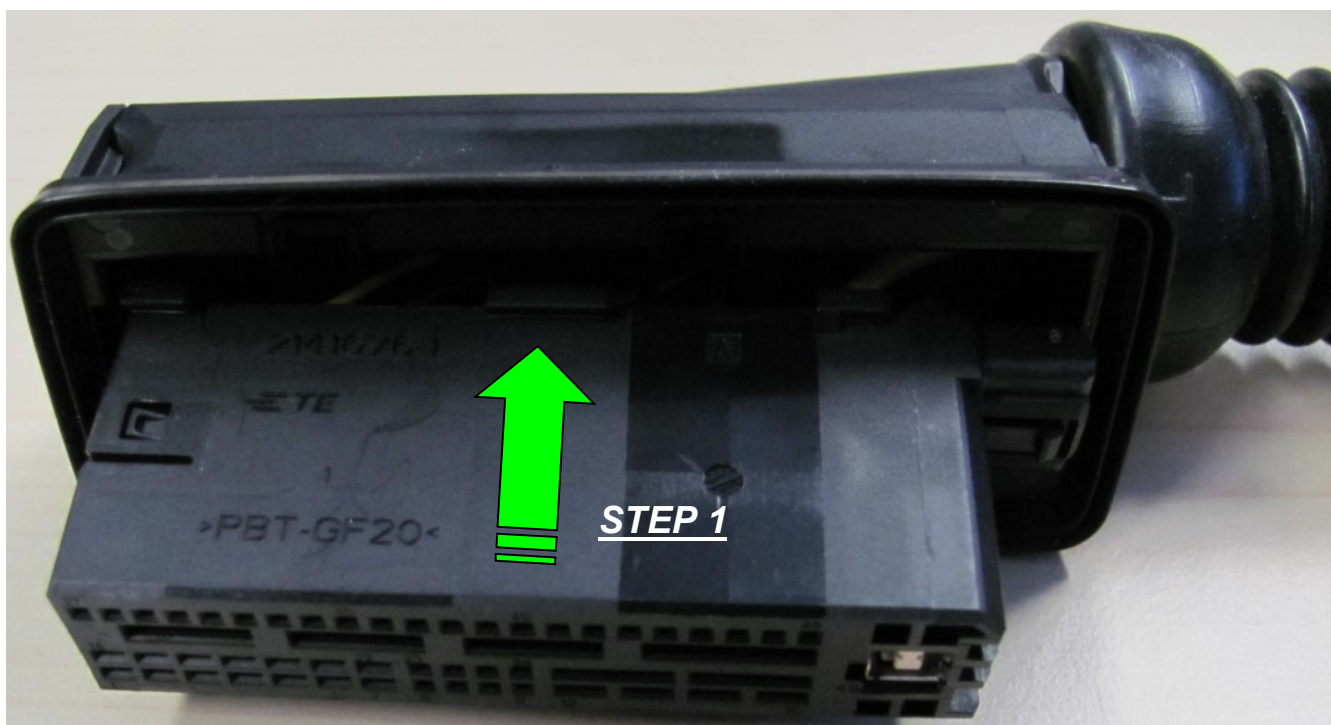
2.2 22- & 26-way female housing loading into cover for 49-way female housing

NOTICE Before this operation, make sure the JAE-MX49 female terminal is properly locked into the contact cavity.



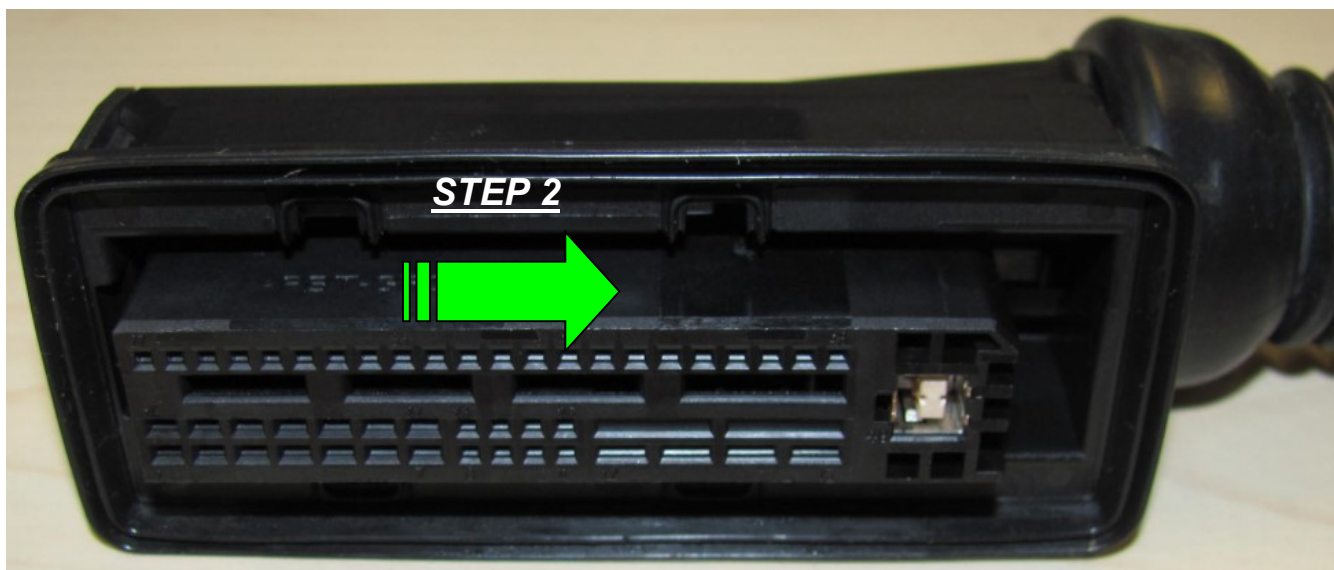
Insert the 22- & 26-way female housings into the cover for 49-way female housing as shown until “CLICK “

2.3 Female housing mounting into the cover slider assembly.



! All wires to be pulled inside.





STEP 1: Push the female housing into the cover slider assembly until stop.

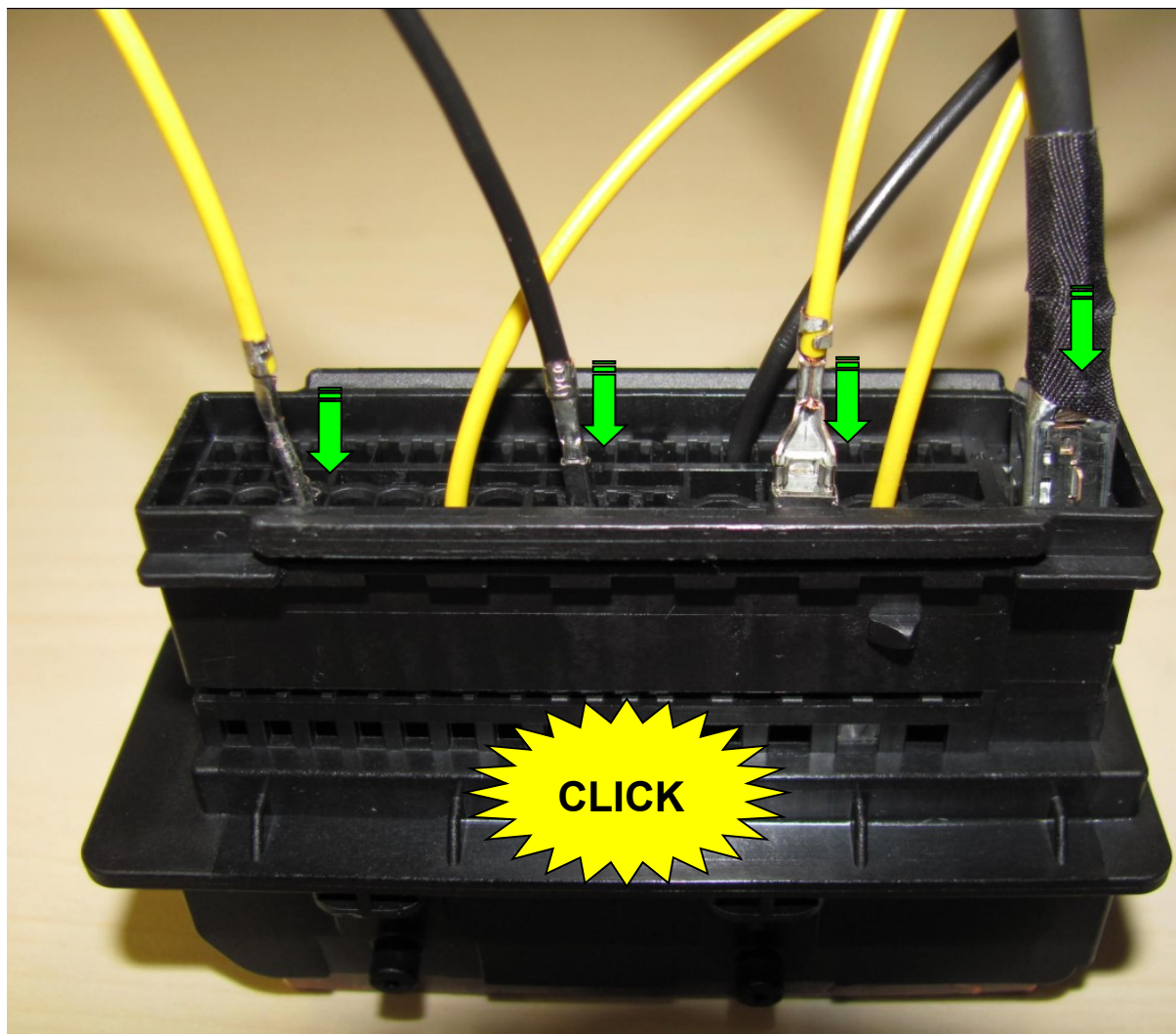
STEP 2: Move the female housing as shown until “CLICK”.



Female connector in delivery condition to car manufacturer

3. TERMINAL LOADING AND ASSEMBLY OF THE MALE CONNECTOR

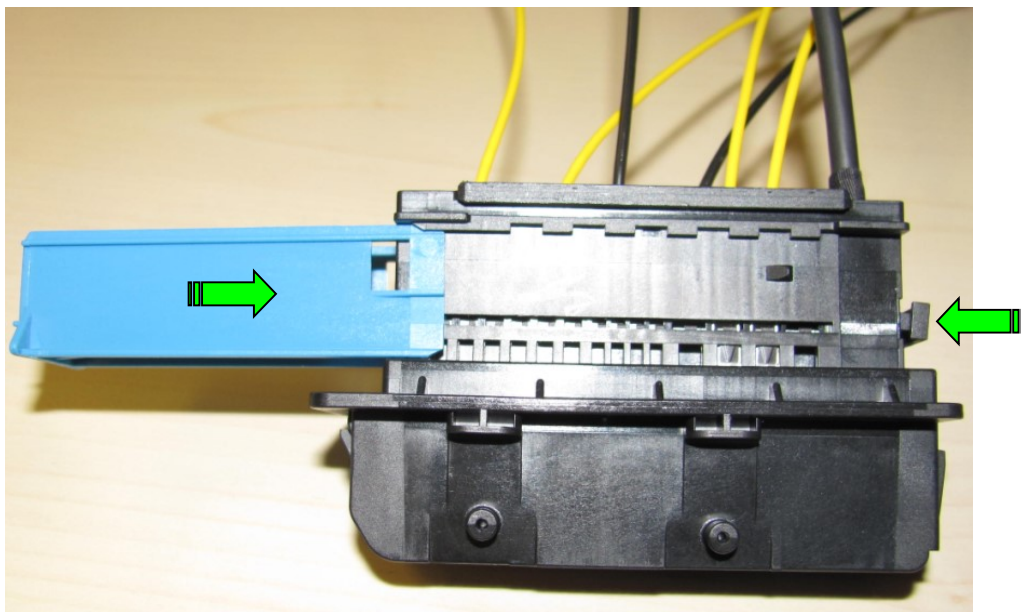
3.1 Terminal loading into the 49-way male housing.



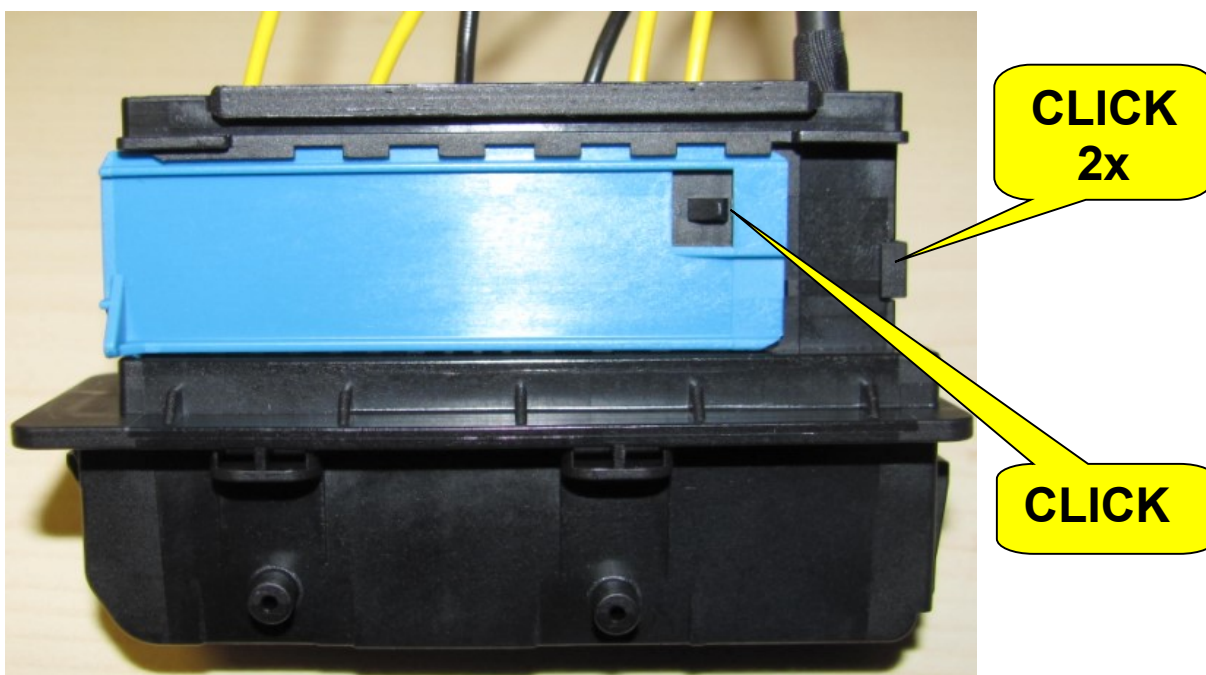
Load all terminals by inserting them into the appropriate contact cavity until “CLICK”.

3.2 Retainer mounting on the 49-way male housing.

NOTICE Before this operation, make sure all terminals are properly locked into the contact cavities.



Place both retainers as shown and push them to end-locked position until “CLICK”.



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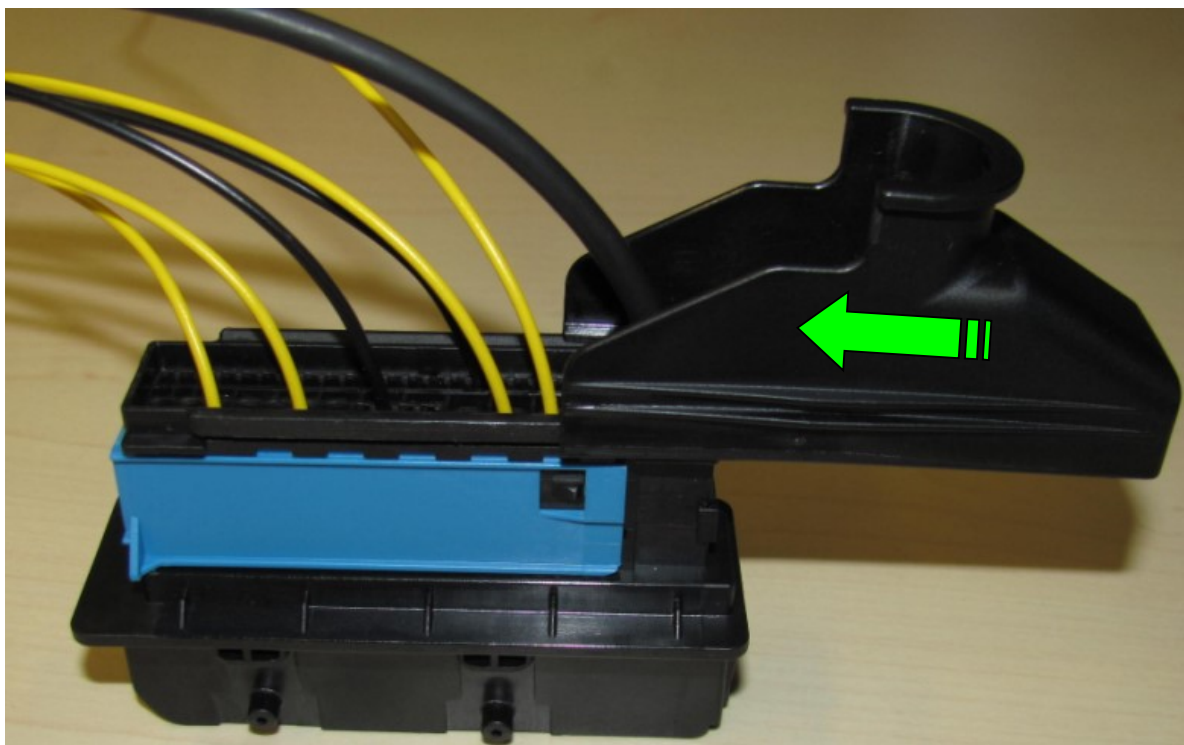
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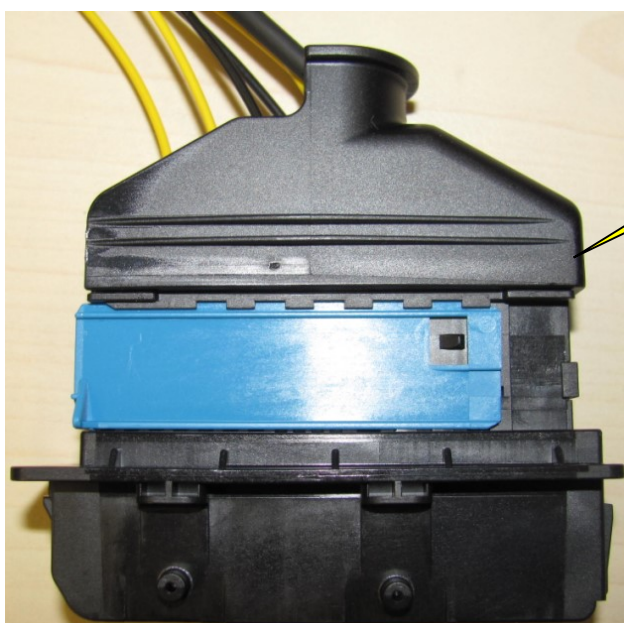
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3.3 Wire cover mounting on the 49-way male housing.



Place the wire cover as shown and push it to end-locked position until “CLICK”.



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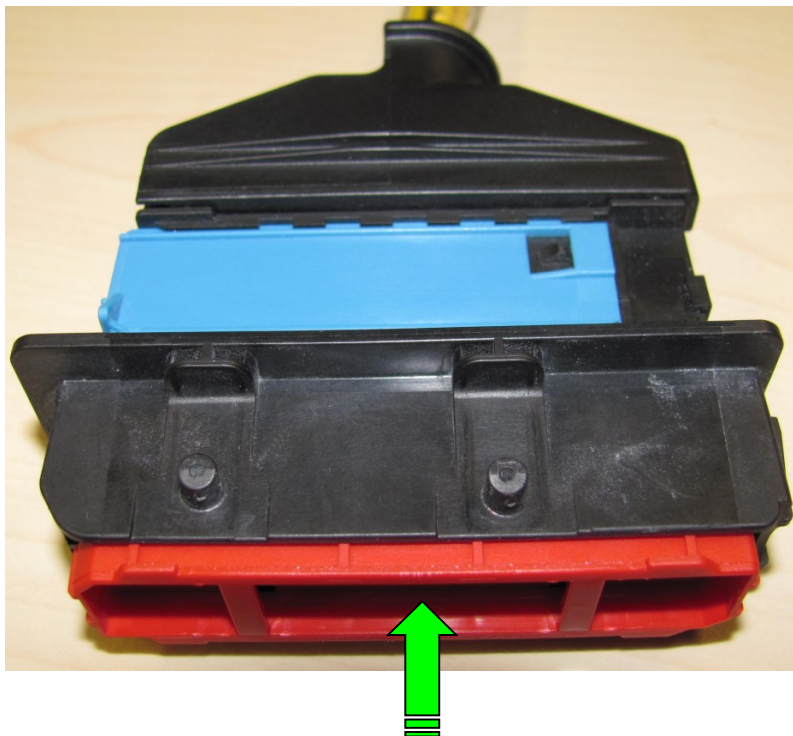
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3.4 Protection cap mounting on the 49-way male housing.



Place the protection cap as shown and push it to end-locked position.



Male connector in
delivery condition to
car manufacturer

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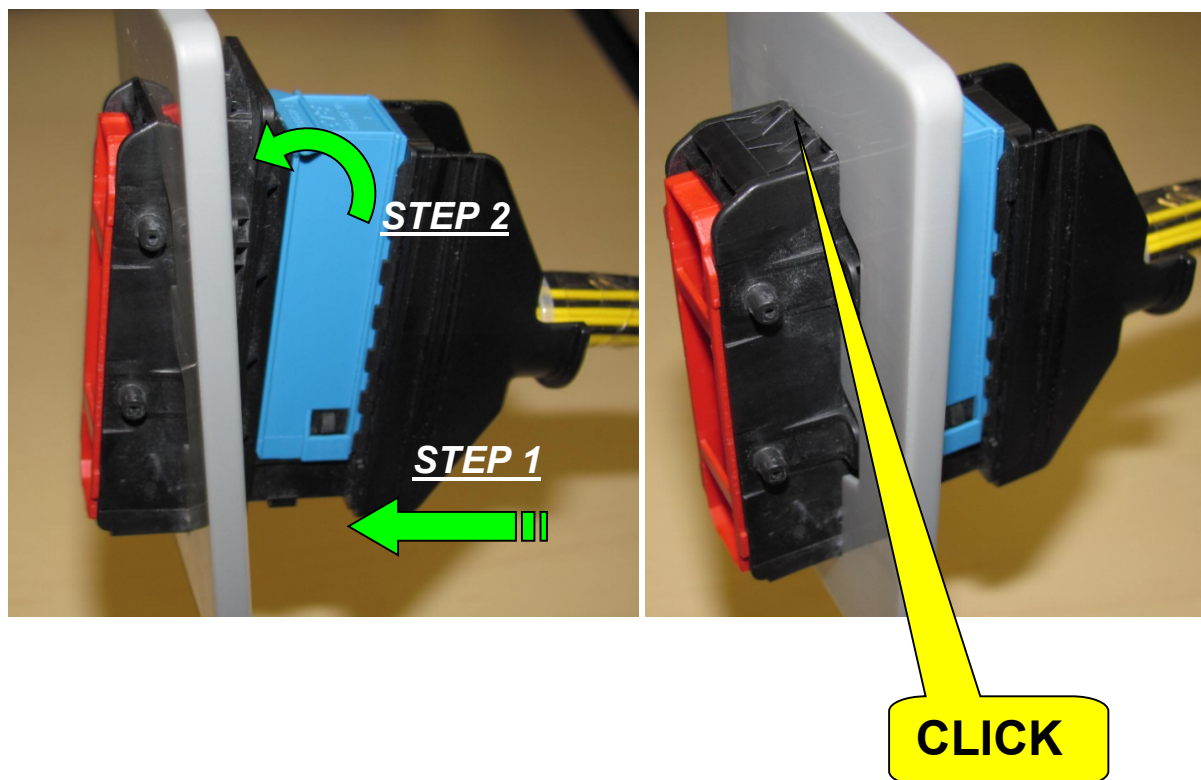
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4. CONNECTOR MOUNTING AT CAR MANUFACTURER

4.1 Male connector mounting into car pillar cut-out.

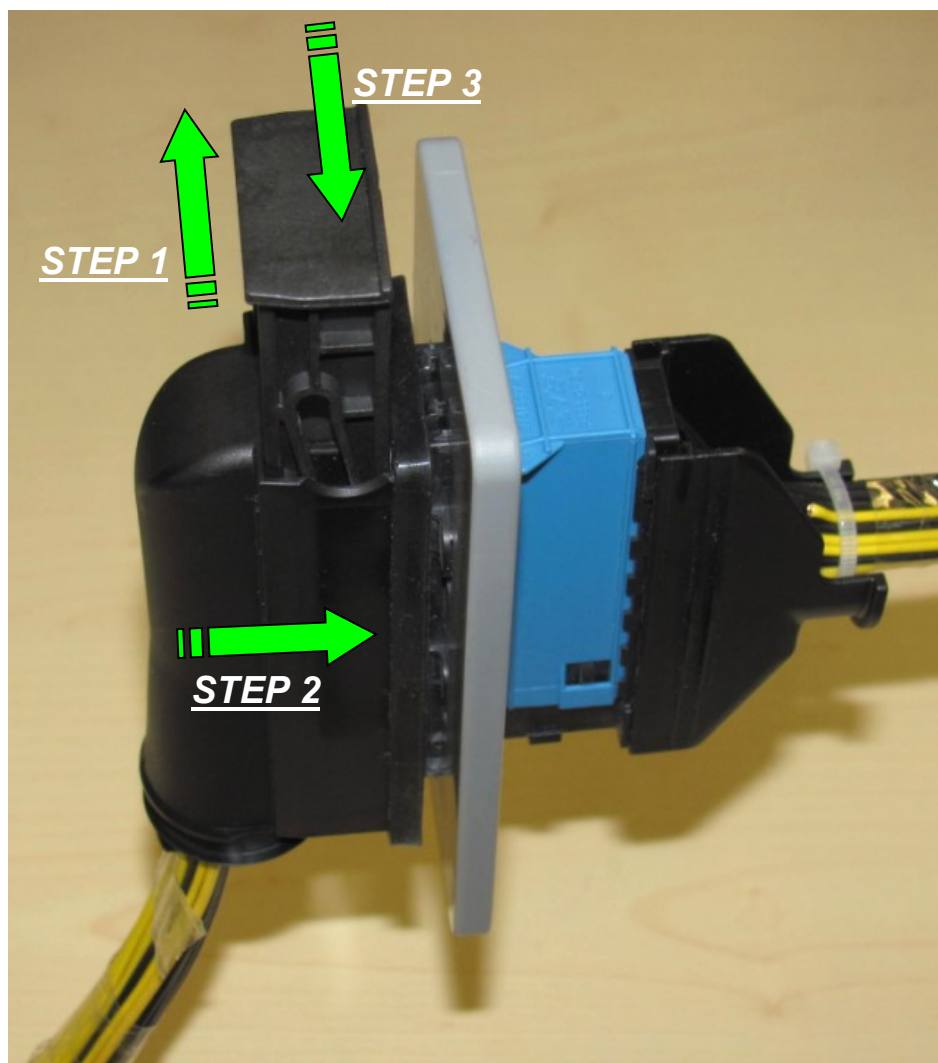


STEP 1: Insert the male connector slightly oblique as shown into the pillar cut-out until the bottom surface hits the sheet metal.

STEP 2: Turn the connector in shown direction until “CLICK”.

4.2 Female connector mating to mounted male connector.

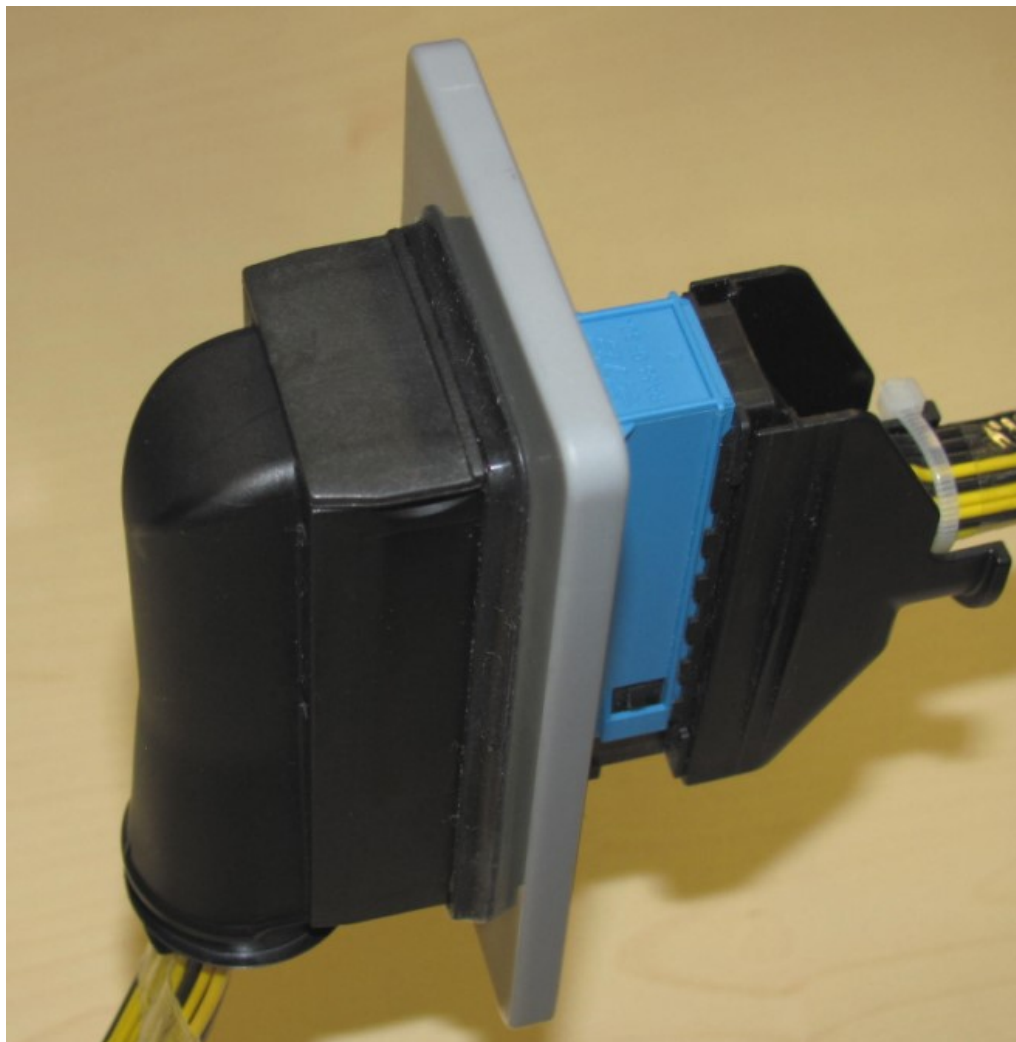
NOTICE The protection cap must be removed from the male connector before this operation.



STEP 1: Pull the slider from shipping position to mating position until stop.

STEP 2: Mate the female connector to the male connector by hand until “CLICK”.

STEP 3: Push the slider down until stop to mate the connectors.



Fully mated connector

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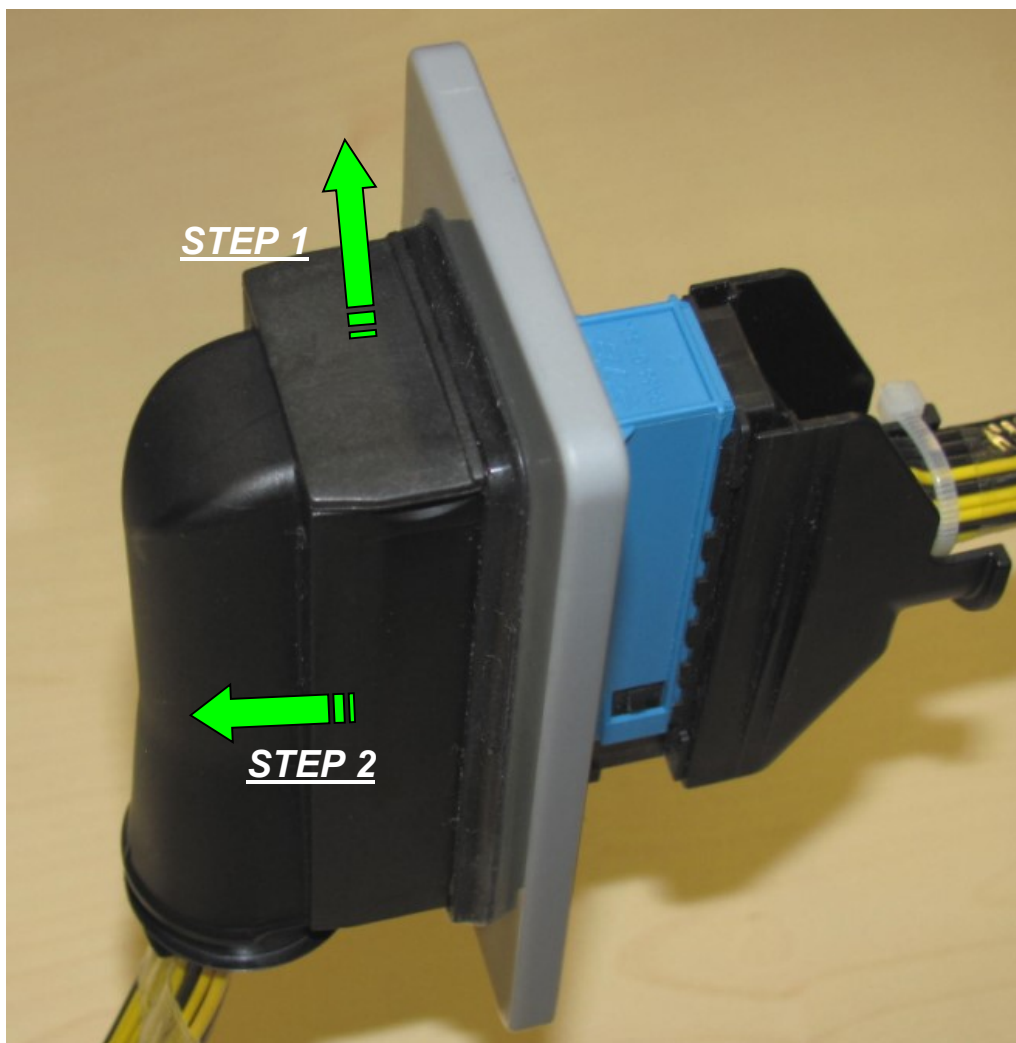
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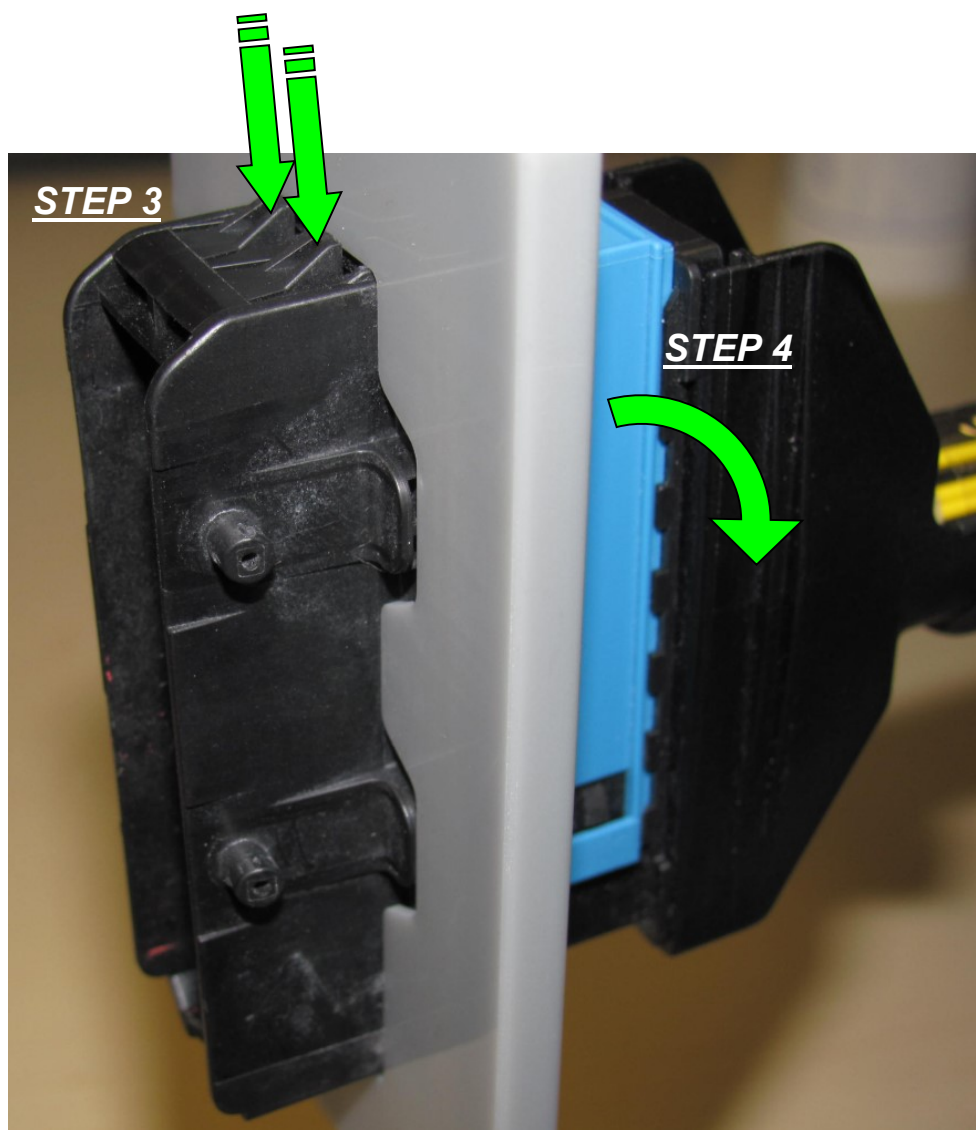
5. SERVICE OPERATIONS

5.1 Connector removal



STEP 1: Pull the slider from end-lock position until stop.

STEP 2: Pull the female connector from the male connector.

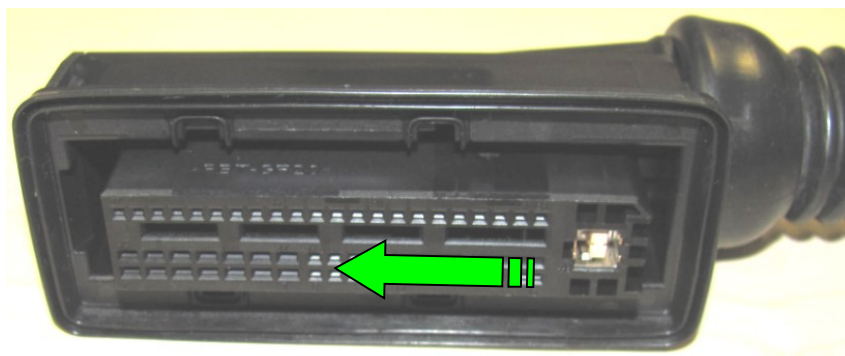


STEP 3: Push both locking latches simultaneously down to unlock the male connector.

STEP 4: Pull the male connector from the car pillar.

5.2 Female connector operations

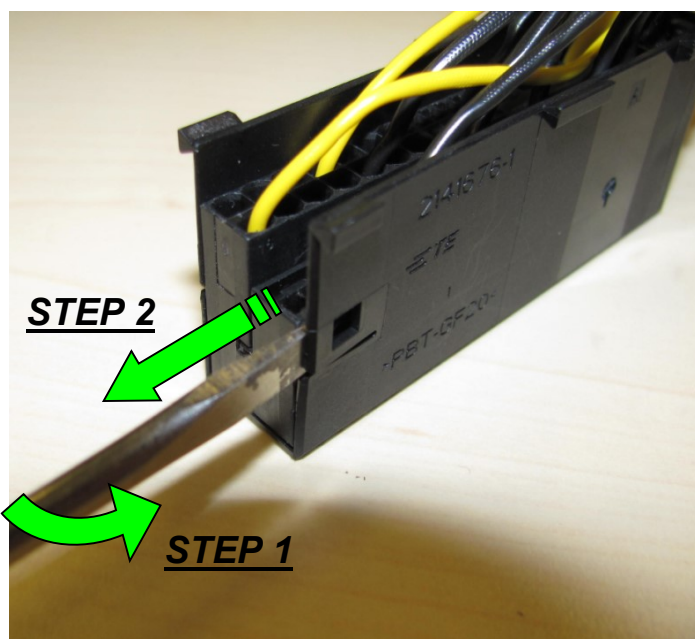
5.2.1 Removal of cover for 49-way female housing from cover slider assembly



Push the cover for 49-way female housing in shown direction until unlock, then pull it out of the cover slider assembly.

5.2.2 Removal of 22/26 way female housing from cover for 49-way female housing

NOTICE Applies on both 22- & 26-way female housings



STEP 1: Deflect the locking latch to release the female housing.

STEP 2: Pull the female housing out of the cover for 49-way female housing.

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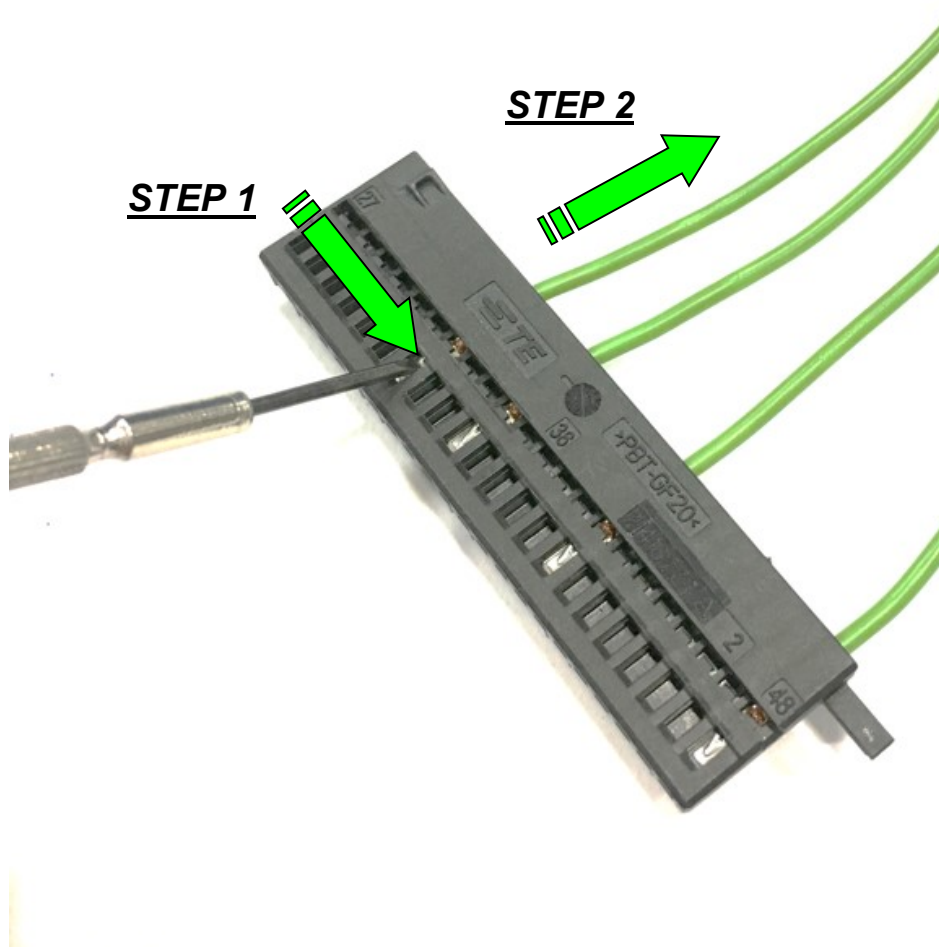
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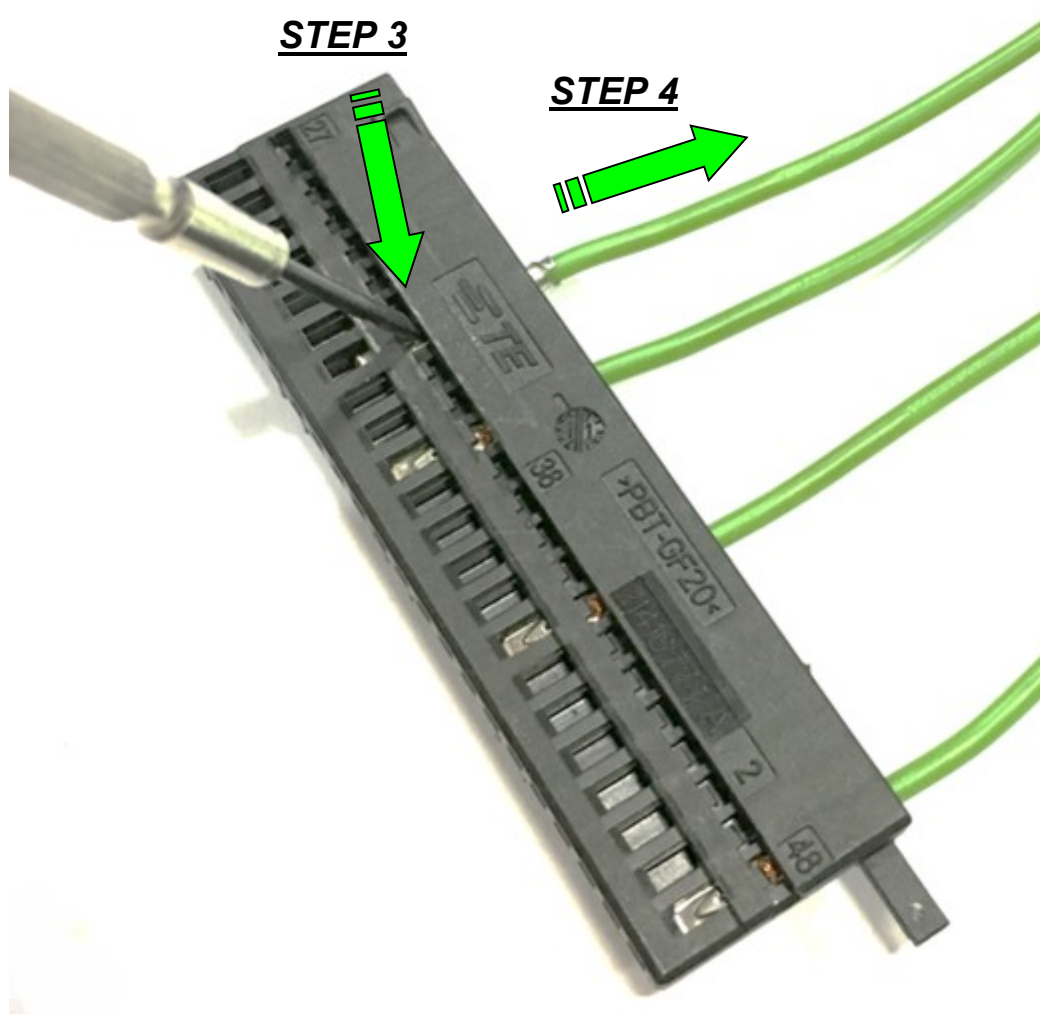
5.2.3 Removal of the female terminals

NOTICE Apply to all terminals of the 22- & 26-way female housings



STEP 1: Push down the terminal locking latch to unlock the terminal.

STEP 2: Pull the terminal out of the 22- & 26-way female housing

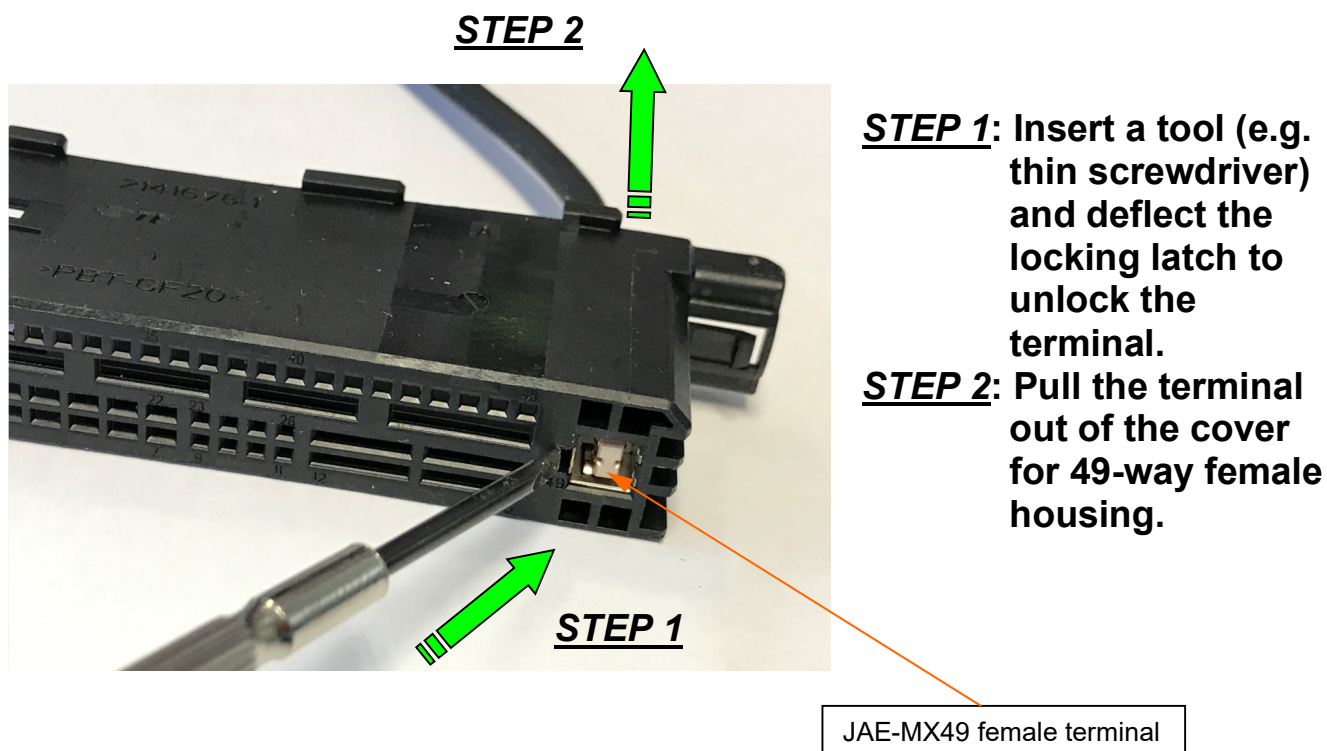


STEP 3: Push down the terminal locking latch in the secondary locking area to unlock the terminal as shown.

STEP 4: Pull the terminal in the shown direction.

5.2.4 Removal of the JAE-MX49 female terminal

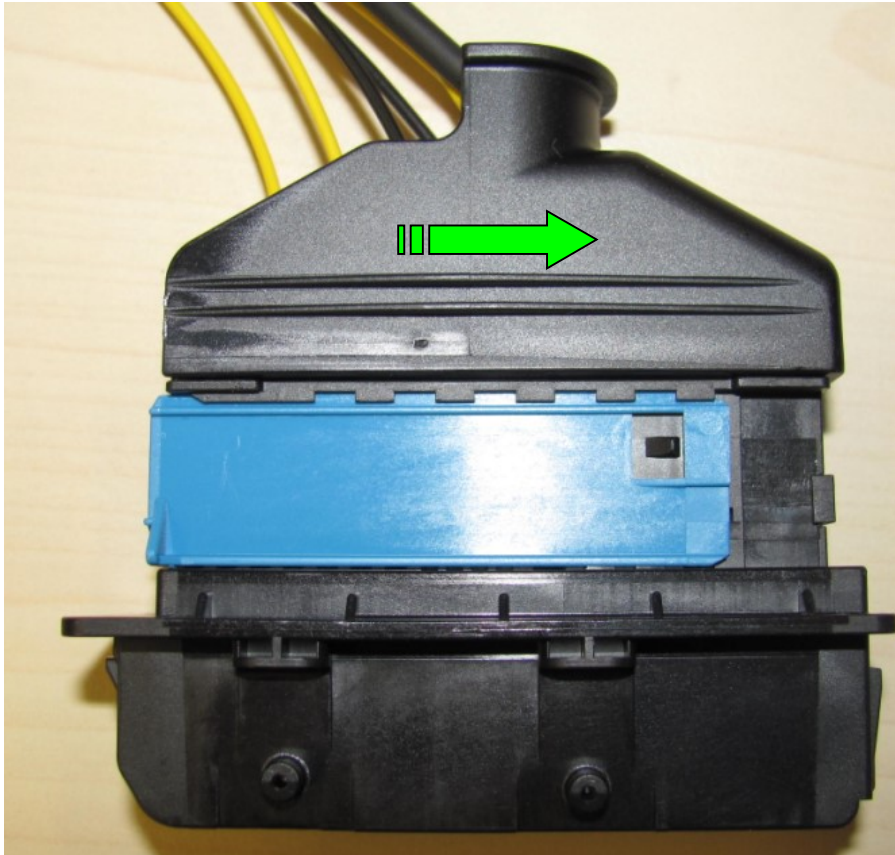
NOTICE Apply to JAE-MX49 female terminal.
Any Damage/Breakage of the Locking Latch please replace the entire housing.



5.3 Male connector operations

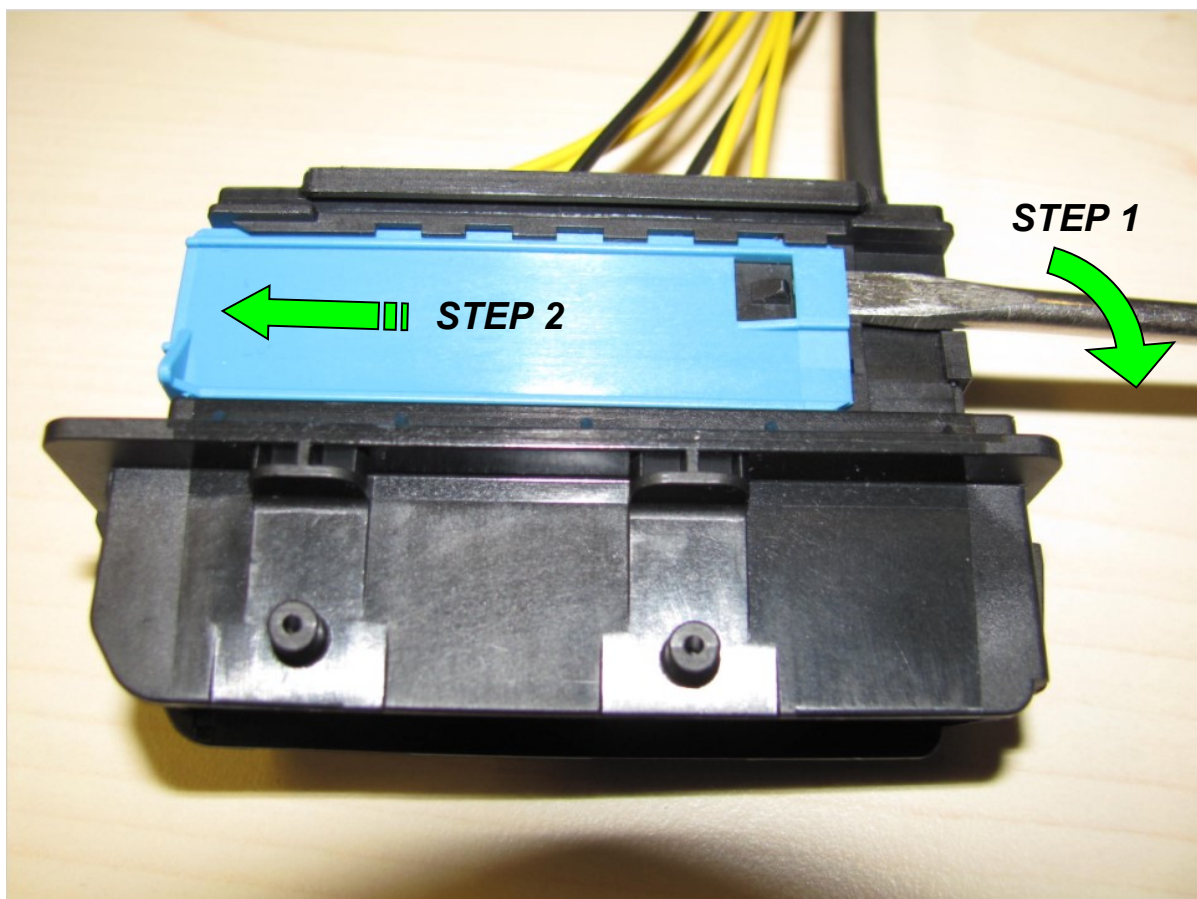
5.3.1 Removal of the wire cover for 49-way male housing

NOTICE Any Damage/Breakage of the Locking Latch please replace the Cover.



Push the wire cover for 49-way male housing in shown direction.

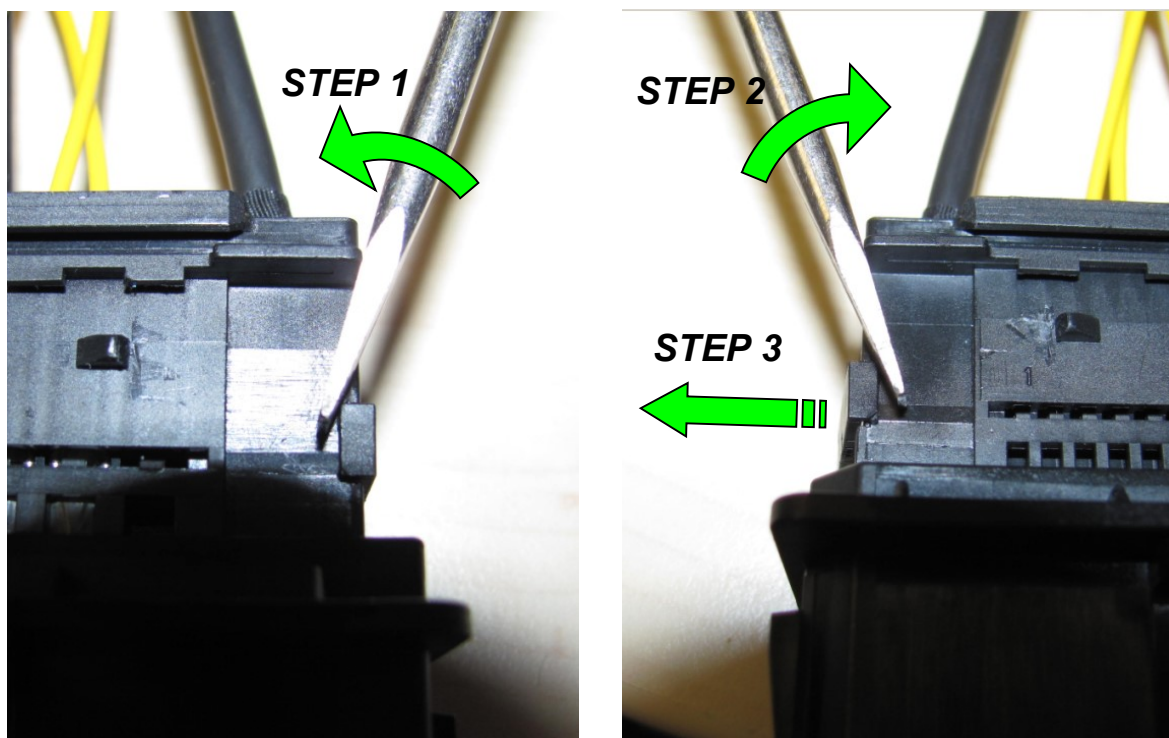
5.3.2 Removal of the retainer for 49-way male housing



STEP 1: Deflect both sides of the retainer simultaneously as shown.

STEP 2: Pull the retainer off the male housing.

5.3.3 Removal of the retainer for JAE-MX49 male terminal



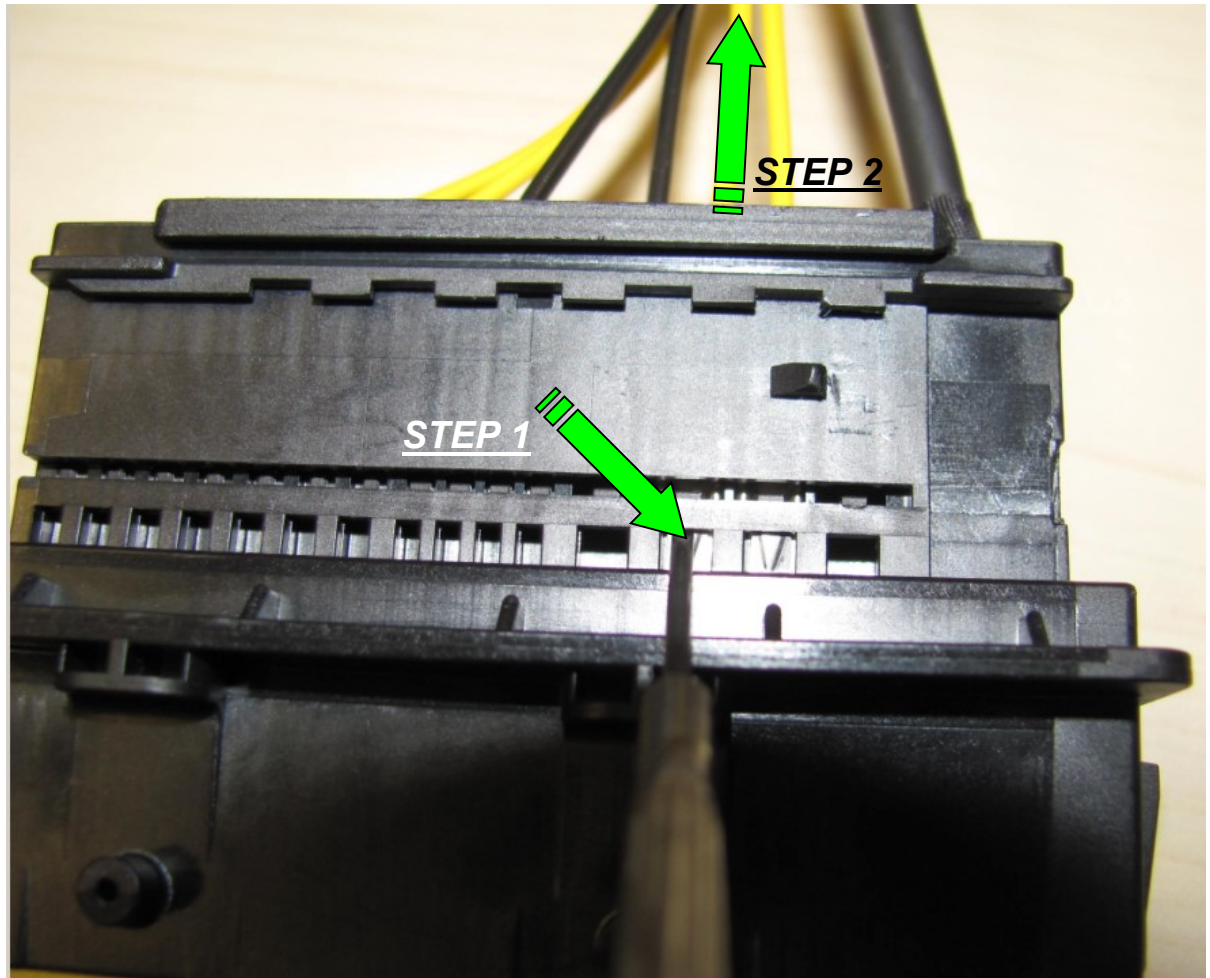
STEP 1: Unlock one side of the retainer.

STEP 2: Unlock the other side of the retainer.

STEP 3: Pull the retainer off the male housing.

5.3.4 Removal of the male terminals

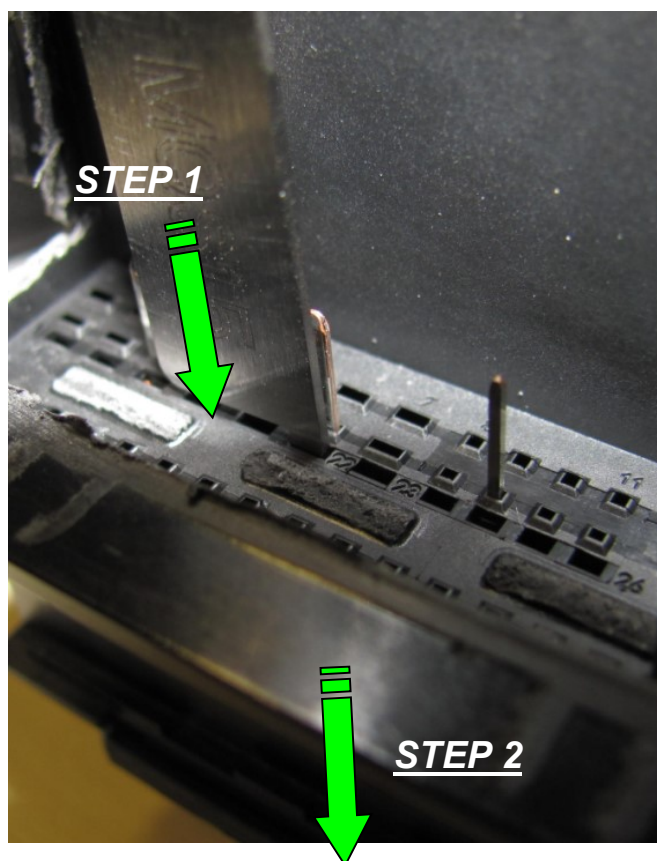
NOTICE This operation only applies on the terminals of the outer rows.



STEP 1: Push down the terminal locking latch to unlock the terminal.

STEP 2: Pull the terminal out of the male housing.

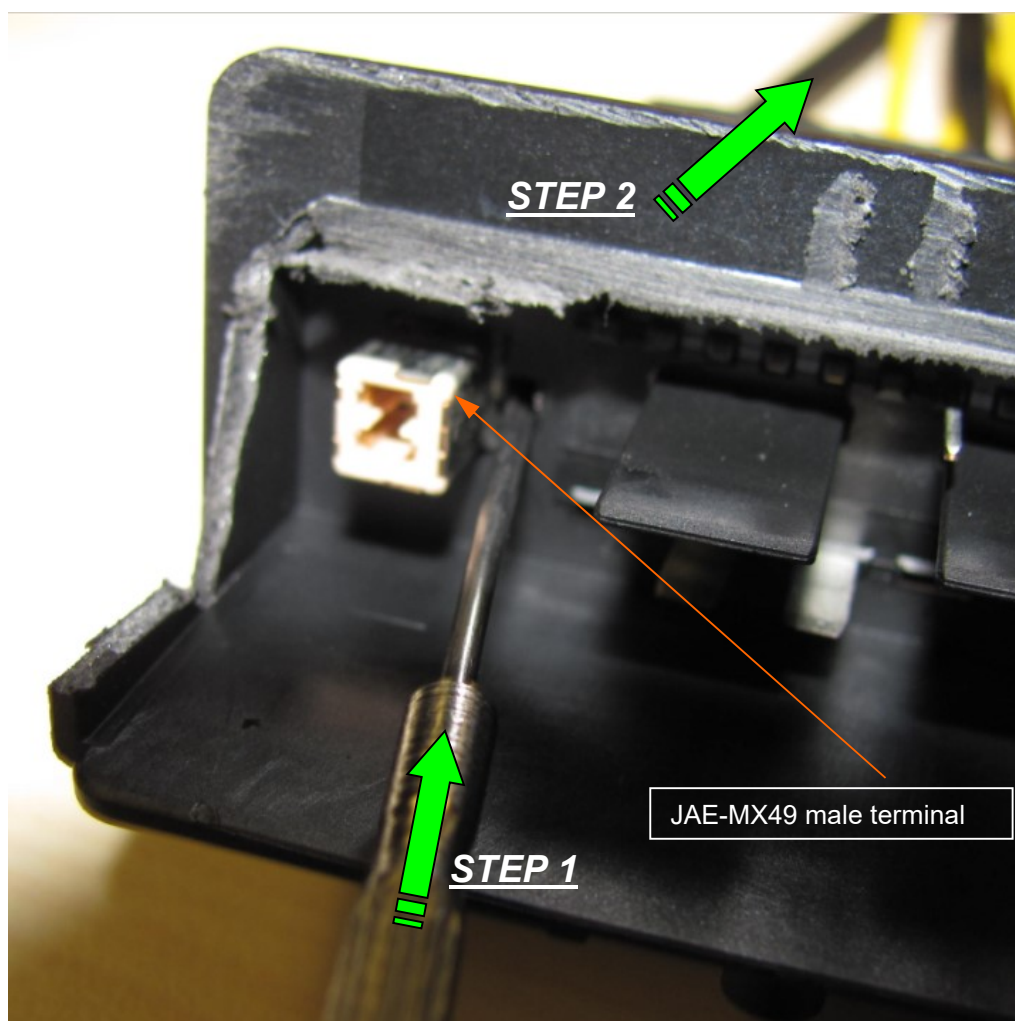
NOTICE This operation only applies on the terminals of the middle row.



STEP 1: Insert an appropriate blade of the extraction tool 1355968 into the access hole next to the terminal blade.

STEP 2: Pull the terminal out of the male housing.

5.2.5 Removal of the JAE-MX49 male terminal



STEP 1: Insert a tool (e.g. thin screwdriver) and deflect the locking latch to unlock the terminal

STEP 2: Pull the terminal out of the male housing.