

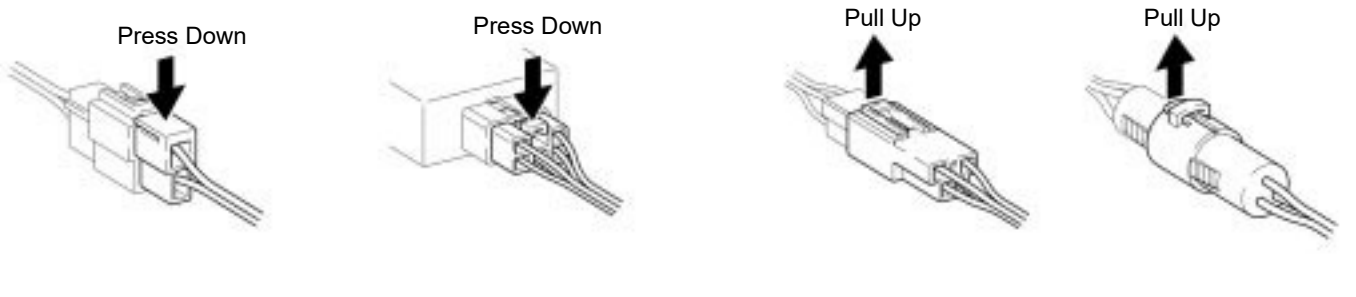
Step 2. Disconnect the Terminal from the Connector.

1. Disconnect Connector

To pull apart the connectors, pull on the connector itself, not the wire harness.

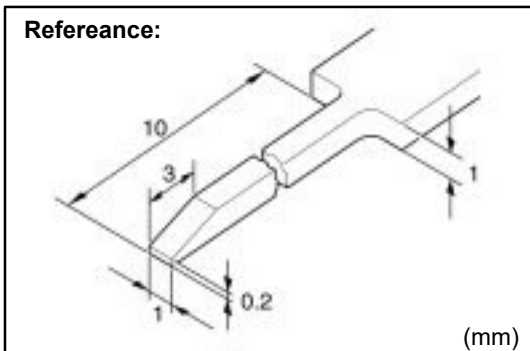
HINT: Check to see what kind of connector you are disconnecting before pulling apart. Press down type is mainly used.

Example:



B

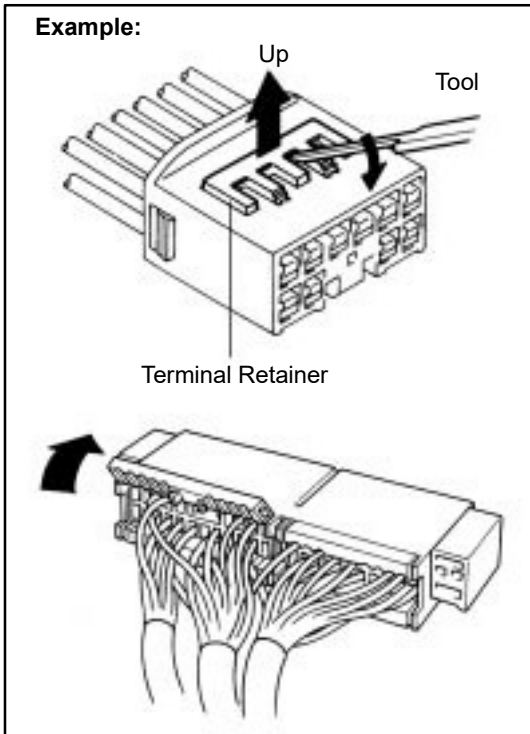
Reference:



2. Prepare the Special Tool

HINT: To remove the terminal from the connector, please construct and use the special tool or like object shown on the left.

Example:

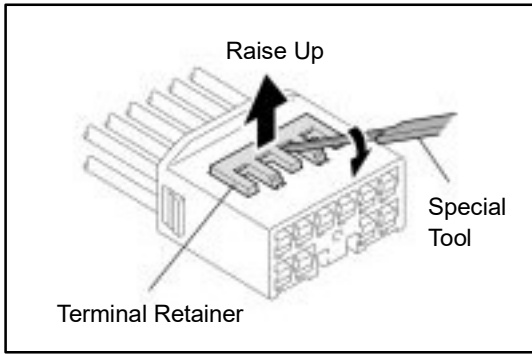


3. Disengage the double locking device or terminal retainer.

- (a) Locking device must be disengaged before the terminal locking clip can be released and the terminal removed from the connector.
- (b) Use a special tool or the terminal pick to unlock the double locking device.

NOTICE:
Do not remove the terminal retainer from connector body.

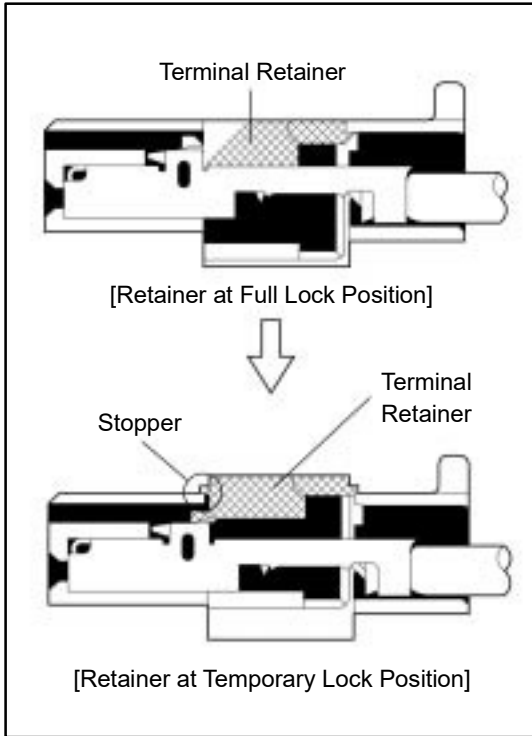
TERMINAL AND CONNECTOR REPAIR—TERMINAL REPLACEMENT



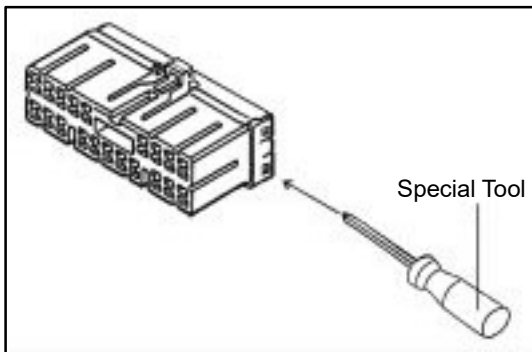
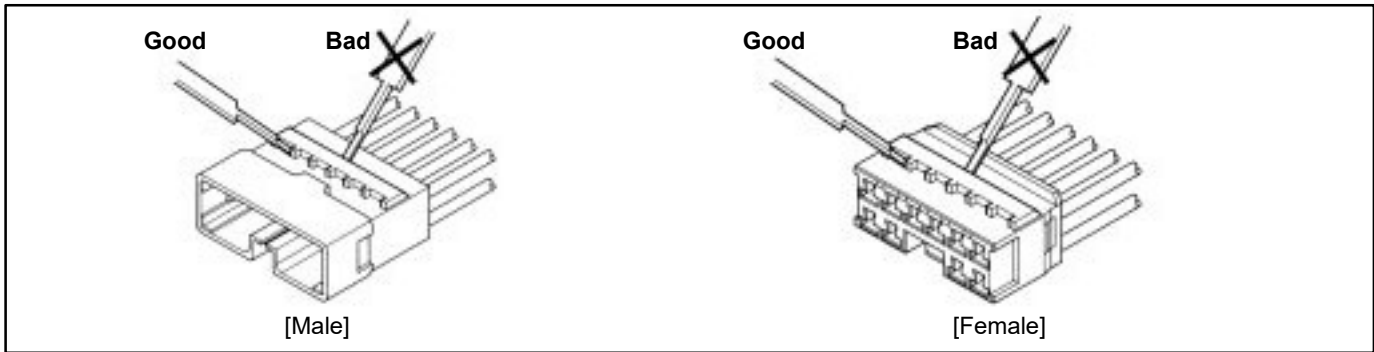
Type A (For 1.0II, 1.8, 2.3II, 4.8 and 8.0 of Non-Waterproof Type Connector)

- (1) Using the special tool, raise the retainer up to the temporary lock position.

HINT: The needle insertion position varies according to the connector's shape (number of terminals, etc.), so check the position before inserting it.

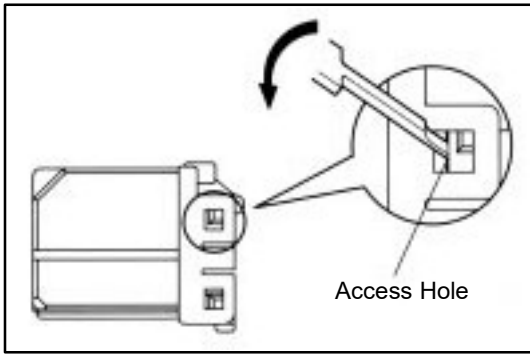


B

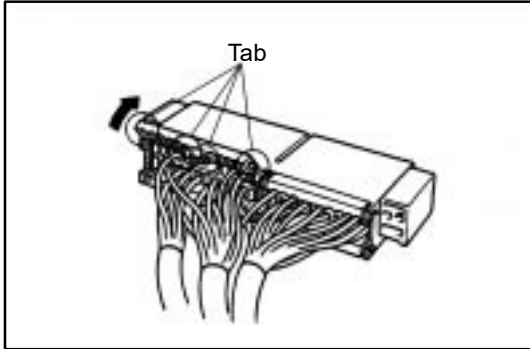


Type B (For 1.8, 1.0 and TLC of Non-Waterproof Type Connector)

TERMINAL AND CONNECTOR REPAIR—TERMINAL REPLACEMENT



- (1) Press the special tool at a 45° angle into the locking lug access hole as shown.
Raise the double locking device up as far as possible.

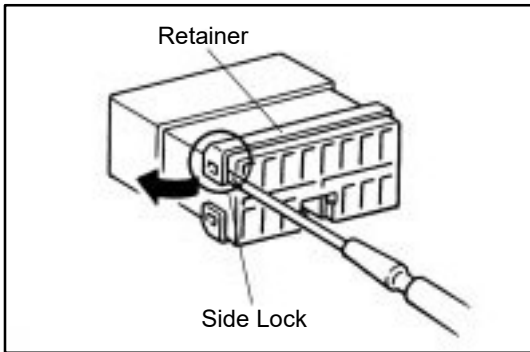
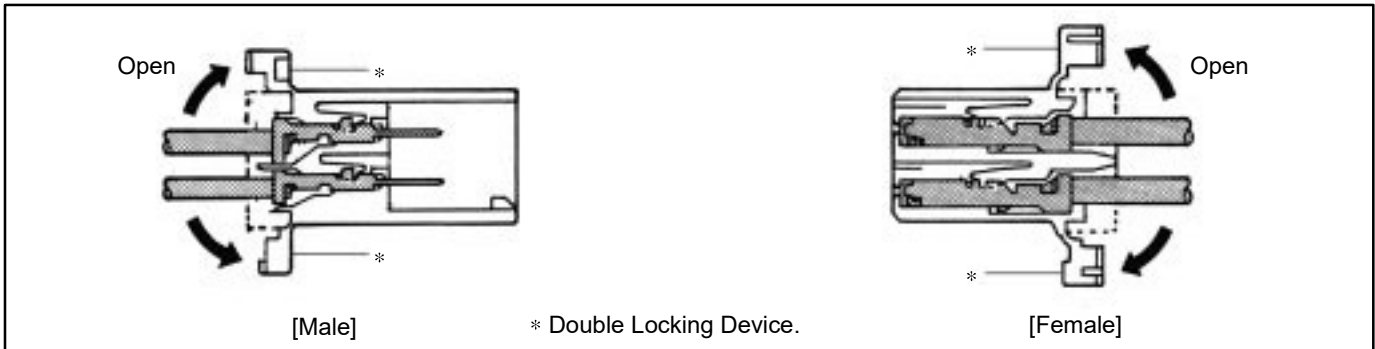


- (2) Remove the special tool and open the double locking device

NOTICE:

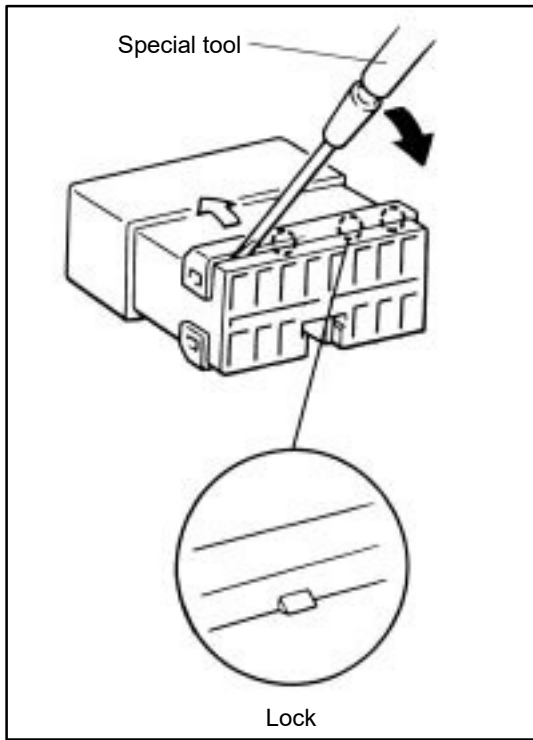
TLC housing is not be reusable. Please replace it with the new one after replacement of the terminal.

B



Type C (For TNS, FTC Type Connector)

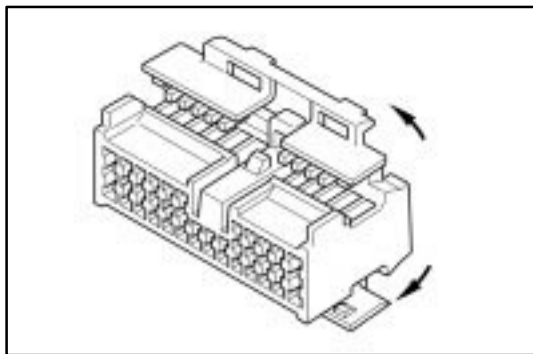
- (1) Widen the side lock part of the retainer from side to side using the special tool.



- (2) Inset the special tool into the chink between the retainer and the terminal itself. Then pry it to the direction of the arrow shown in the illustration and push the retainer up to release the lock.

NOTICE:

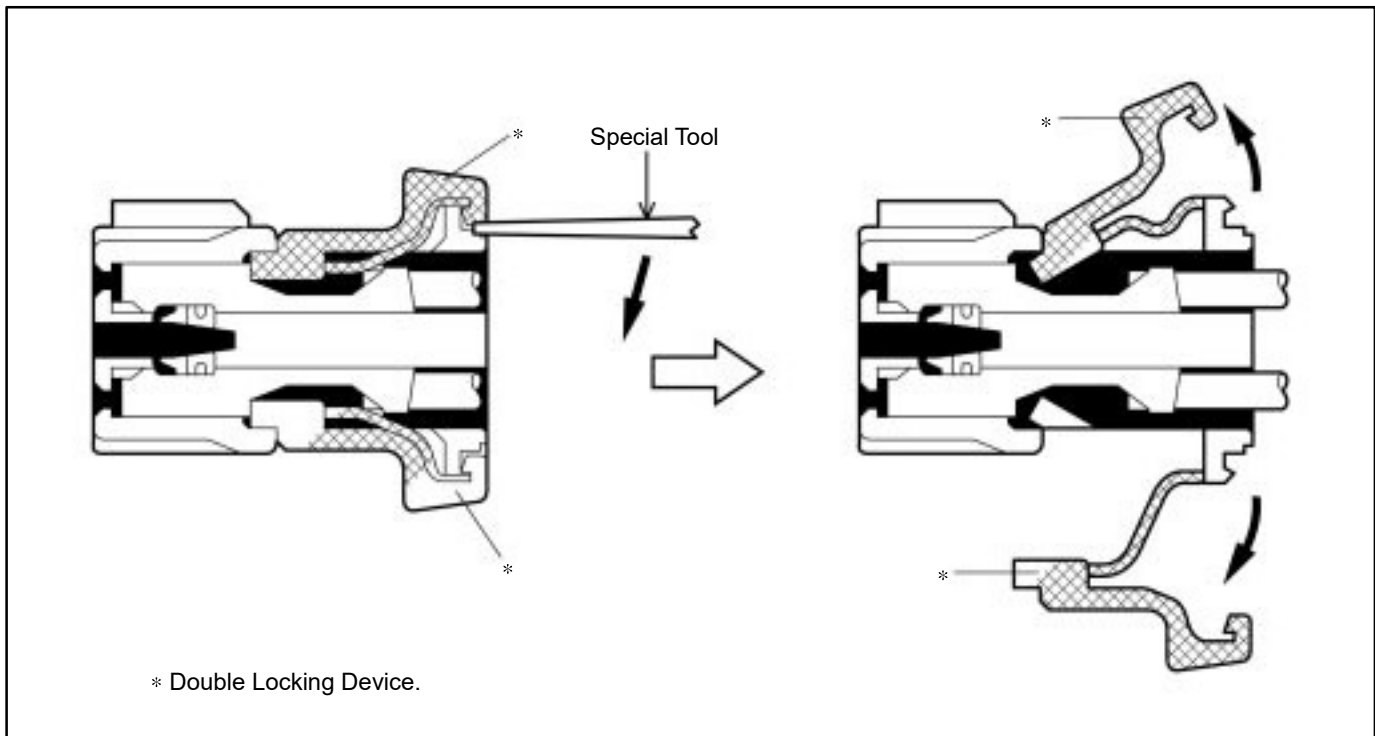
- Do not insert the special tool too much. It may cause damage on the fit section of the terminal and the wire harness.
- TNS housing is not reusable. Please replace it with the new one after replacement of the terminal.

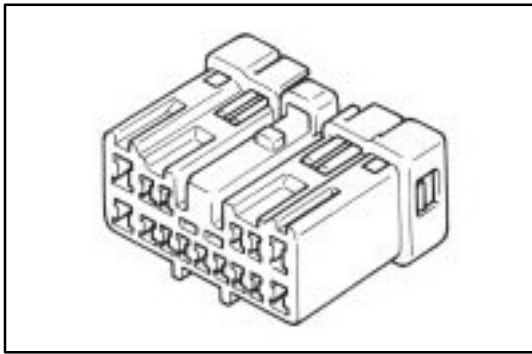


Type D (For 1.3 of Non-Waterproof Type Connector)

[Case 1]

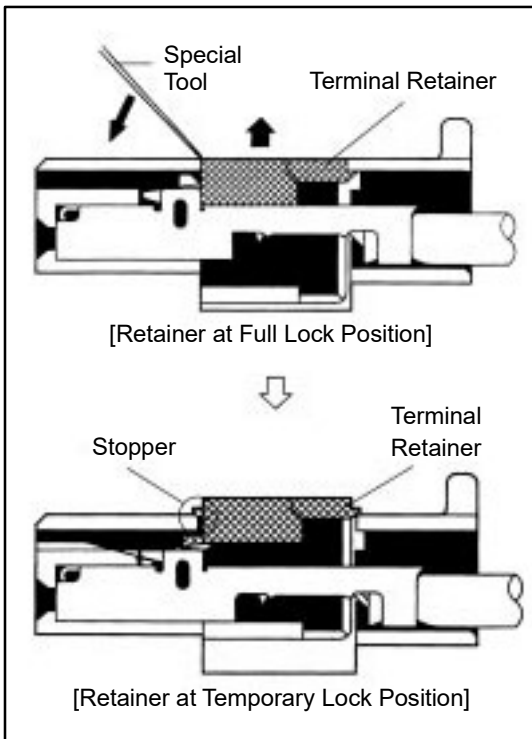
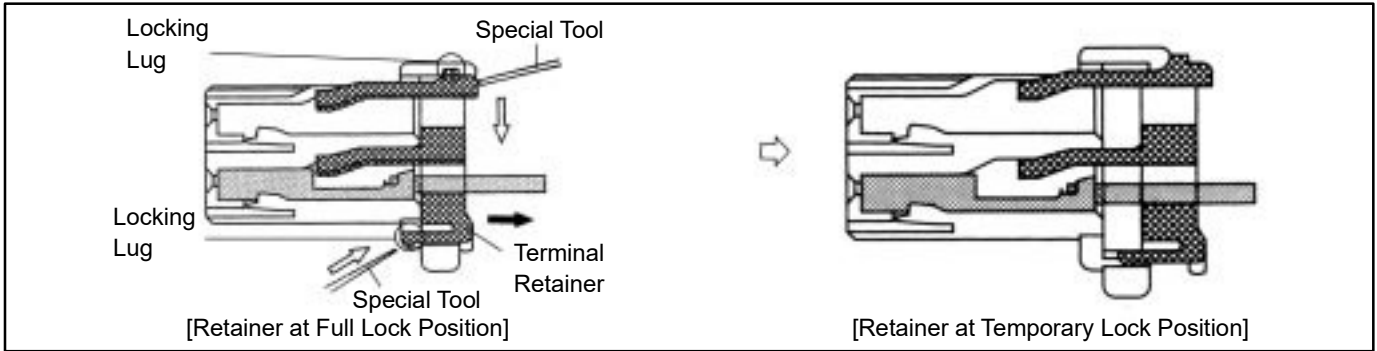
- (1) Use the special tool to unlock the double locking device.





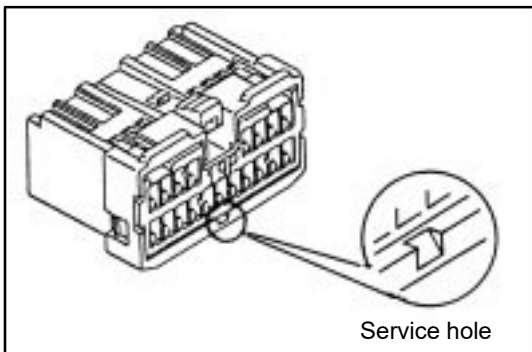
[Case 2]

- (1) Using the special tool, push the terminal retainer locking lug (clip) and pull the terminal retainer up to the temporary lock position.

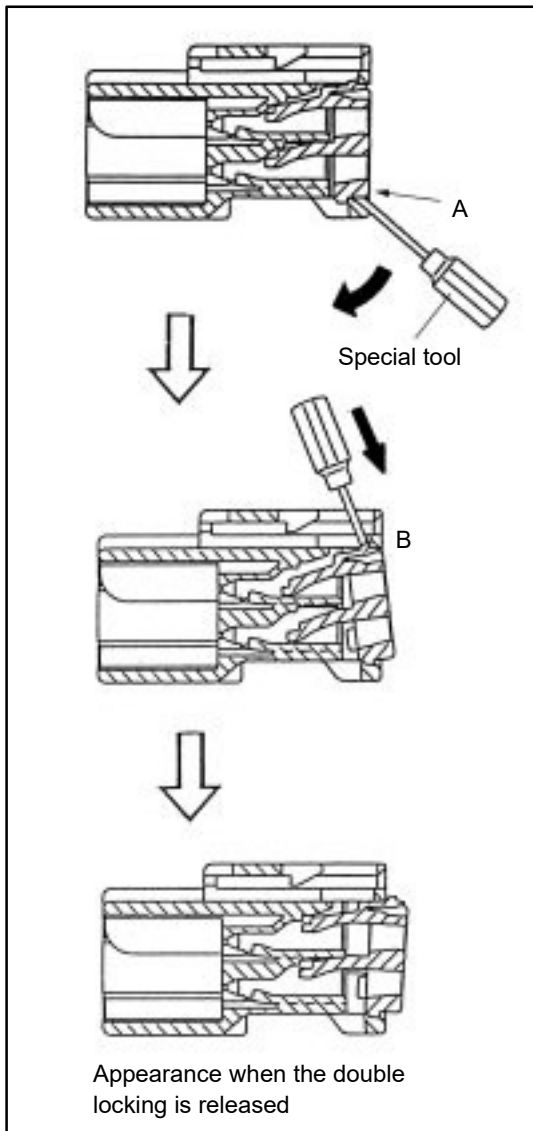


[Case 3]

- (1) Using the special tool, raise the retainer up to the temporary lock position.



[Case 4]



(1) Insert the special tool into the service hole and move it to the direction of the arrow to release the lock on the side A.

(2) Push the lock on the side B up by the special tool and release the lock. Then pull the retainer forward.

Type E (For 1.8, 2.3, 2.3II, 4.8, 6.3 and 8.0 of Waterproof Type Connector)

HINT: Terminal retainer color is different according to connector body.

Example:

Terminal Retainer : Connector body

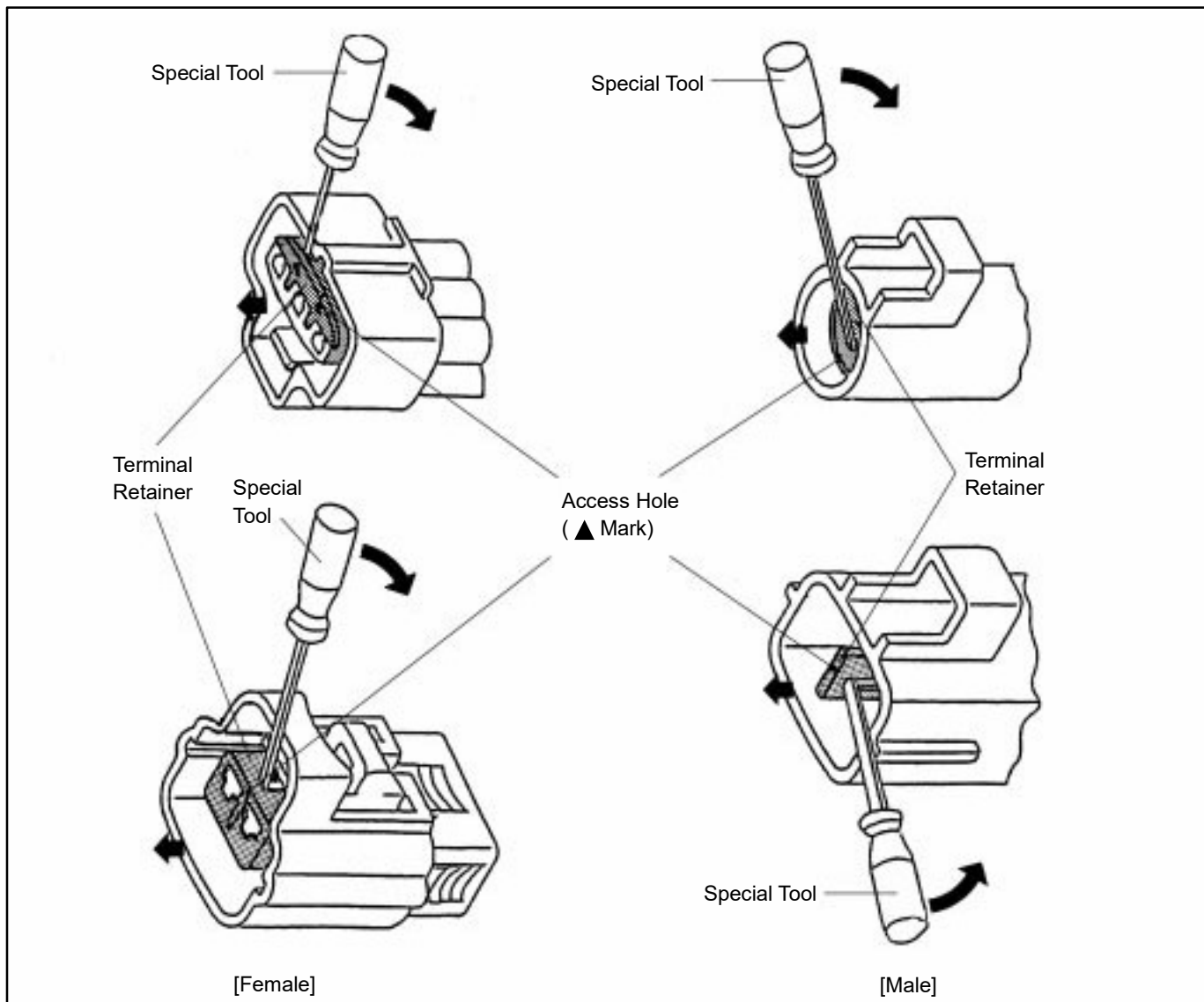
Black or White : Gray

Black or White : Dark Gray

Gray or White : Black

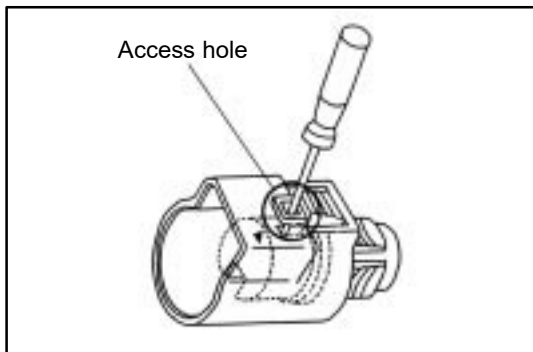
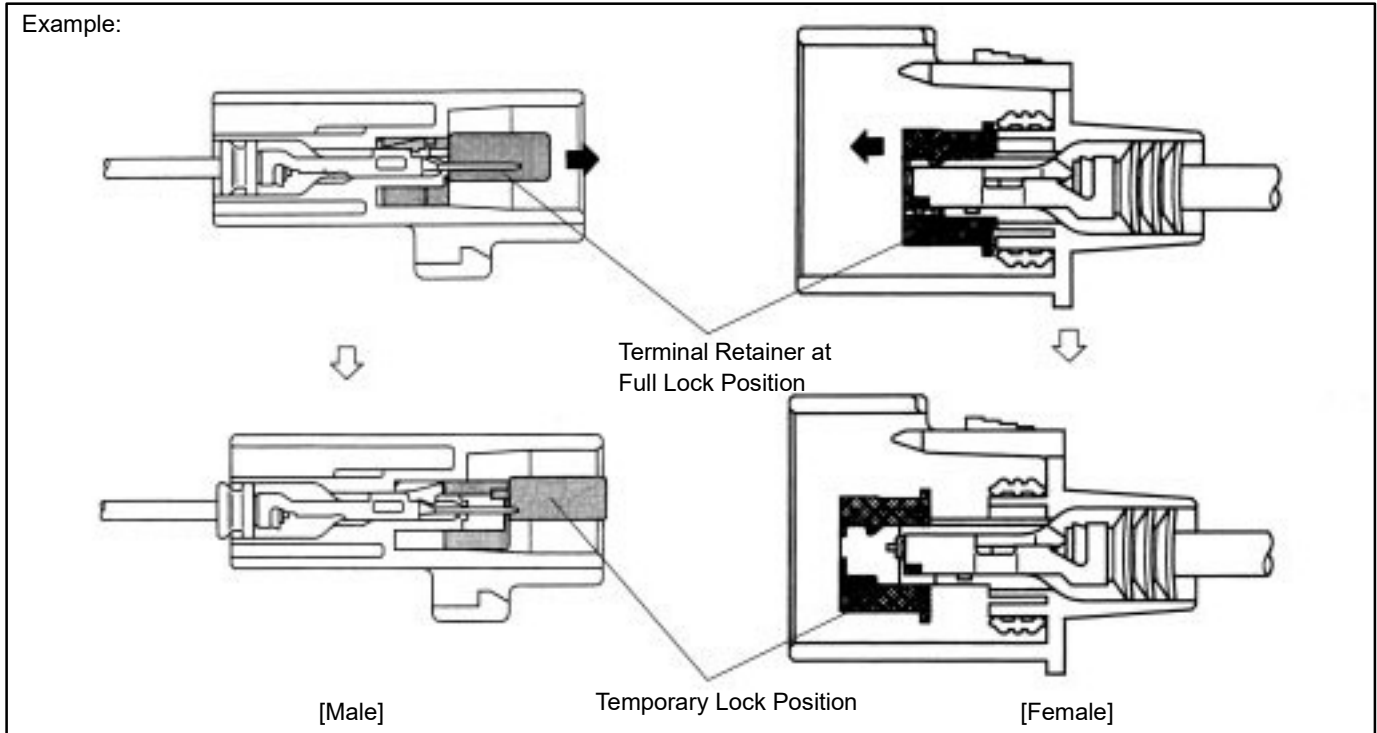
[Case 1]

Type where terminal retainer is pulled up to the temporary lock position (Pull Type).



- (1) Insert the special tool into the terminal retainer access hole (▲ Mark) and pull the terminal retainer up to the temporary lock position.

HINT: The needle insertion position varies according to the connector's shape (Number of terminals etc.), so check the position before inserting it.

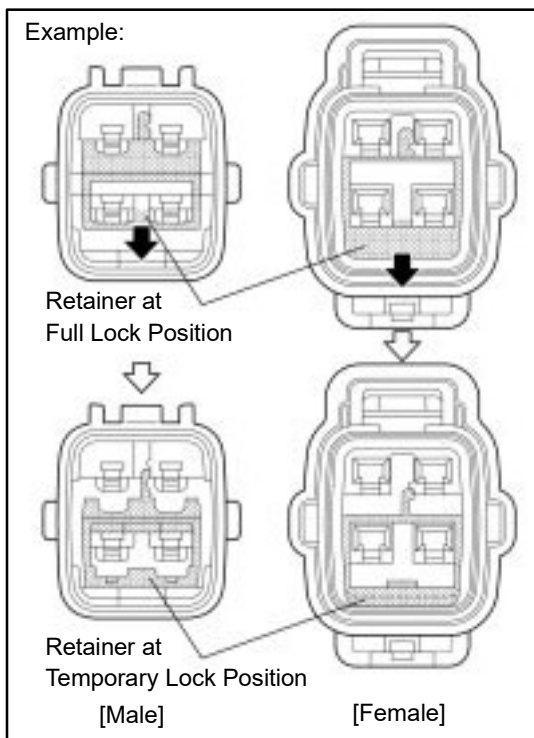
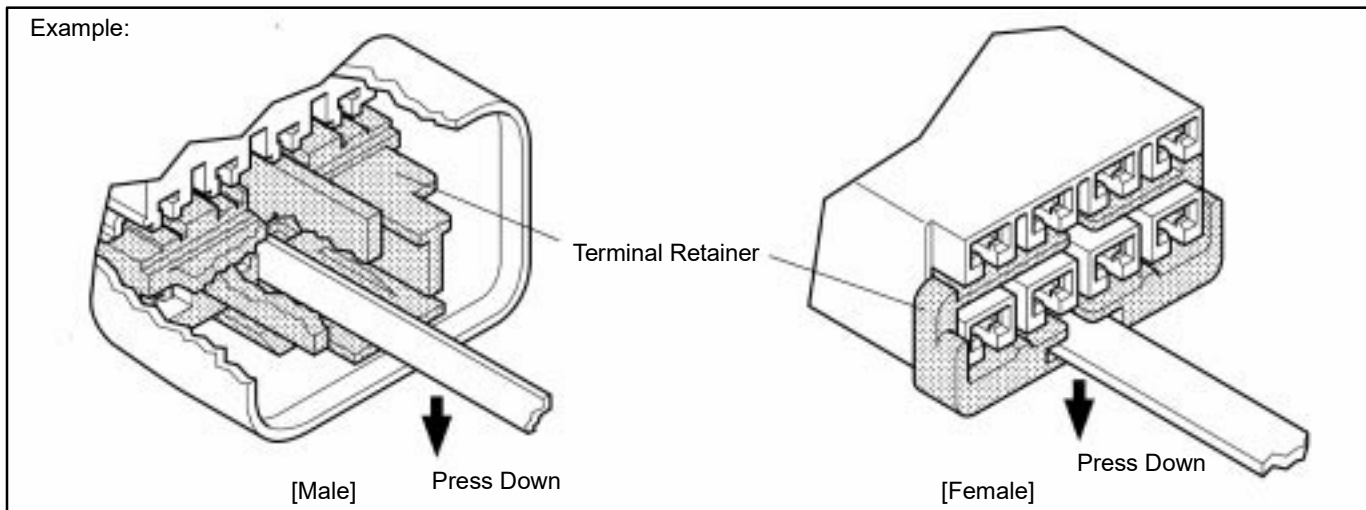


HINT: In some cases insert the special tool from the access hole on the flank of the housing.

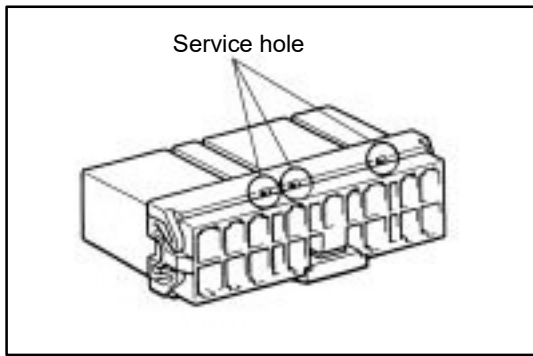
[Case 2]

Type which cannot be pulled as far as Power Lock

HINT: There are few cases of this type of connector

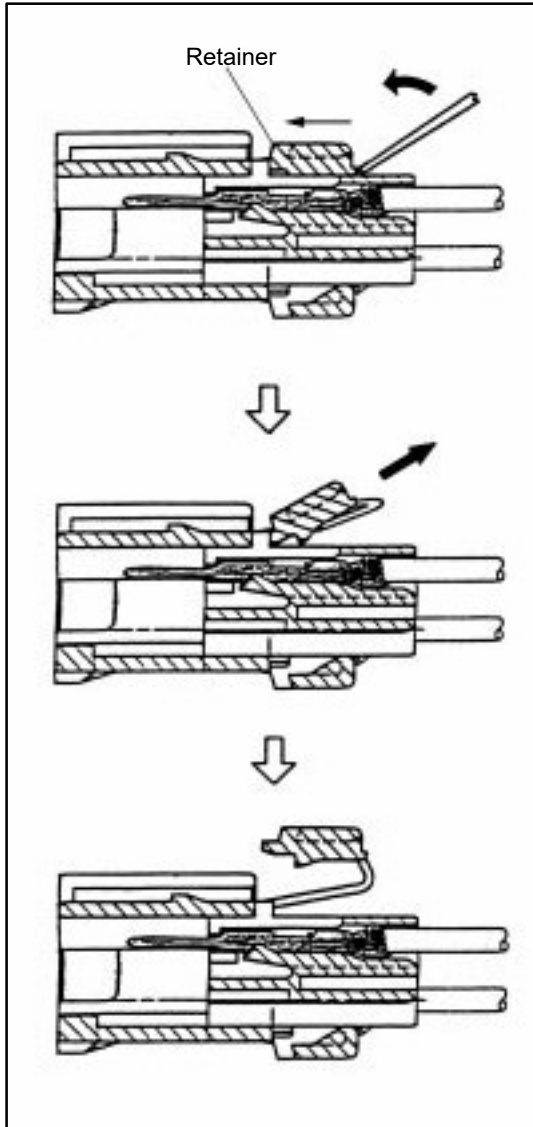


- (1) Insert the tool straight into the access hole of terminal retainer as shown.
Push the terminal retainer down to the temporary lock position.



Type F (For C-Type Connector)

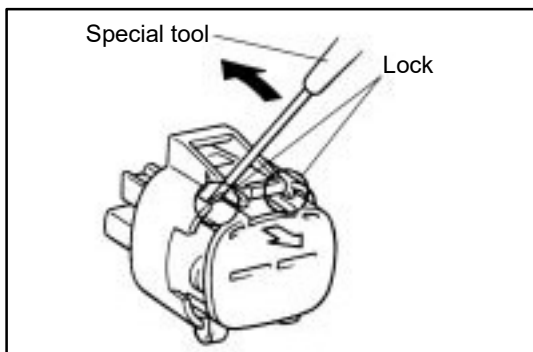
- (1) Insert the special tool into the service hole.



- (2) Move the special tool to the direction of the arrow and release the lock.

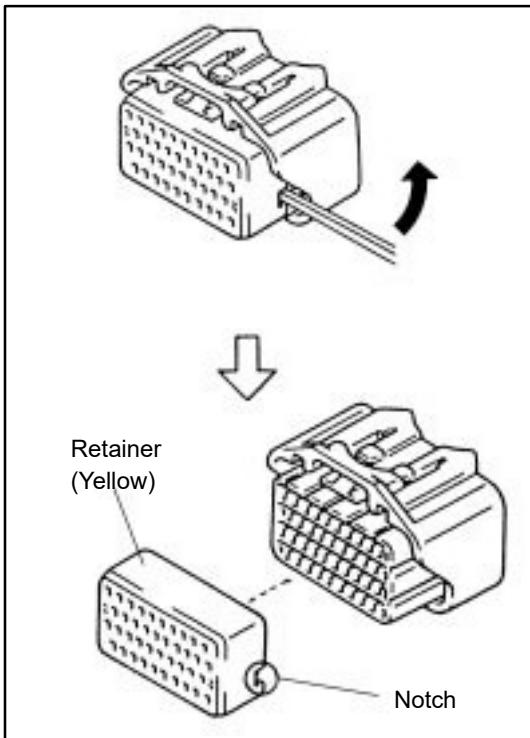
HINT: Lift the retainer up after moving it to the direction of the thin arrow shown in the illustration.

- (3) Pull the retainer forward by hand and remove the retainer from the housing.



Type G

- Insert the special tool into the position shown in the illustration. Pry it to the direction of the arrow and push the lock up to release it.



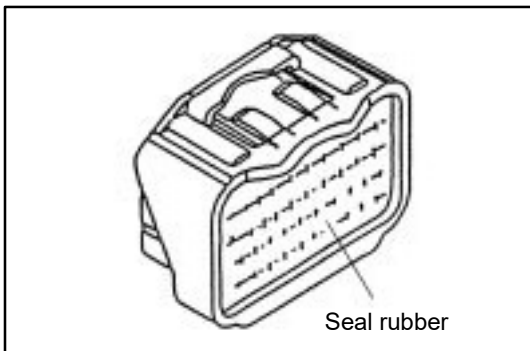
Type H (For 1.0II Type Connector)

- (1) Move the special tool into the notch of the retainer to the direction of the arrow with the edge of the housing as the fulcrum. Then pull the retainer out.

NOTICE:

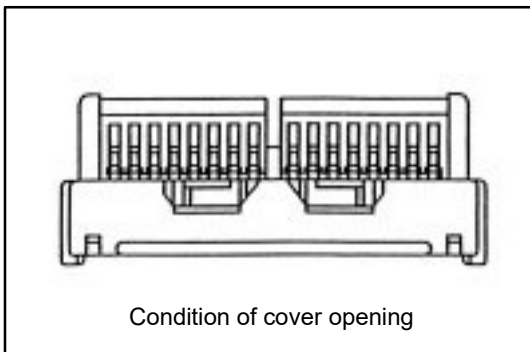
Do not insert the special tool into areas except notches. (This may damage the seal ring that is attached behind the retainer.)

- (2) As same as the procedure (1), pull the retainer straight out using hand after releasing the lock on the other side.



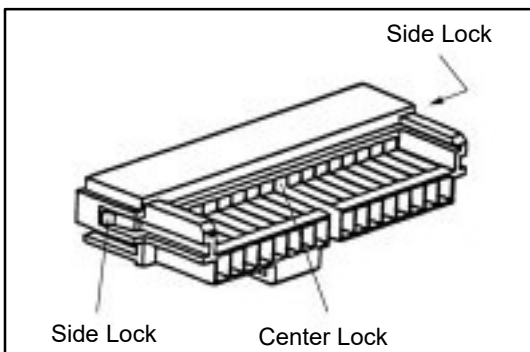
NOTICE:

- Do not remove the seal rubber when pulling the terminal out.
- If the seal rubber is peeled off when pulling the terminal out, press it down to stick it to the original condition.
- Be sure and not fit the connector when the retainer is not installed.



Type I (For SFPC Type Connector)

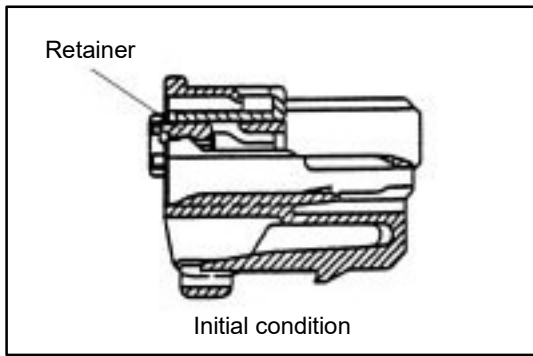
- (1) Open the cover (white)



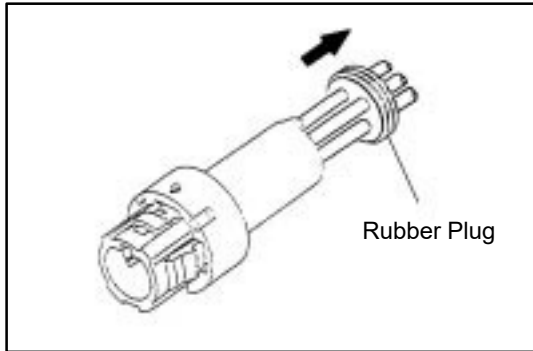
- (2) Remove the side lock of the retainer. (One side)
- (3) Remove the center lock of the housing.
- (4) Remove the side lock of the retainer. (The other side)

NOTICE:

- Following the above order is not required.
- No center lock on the housing with ten poles.

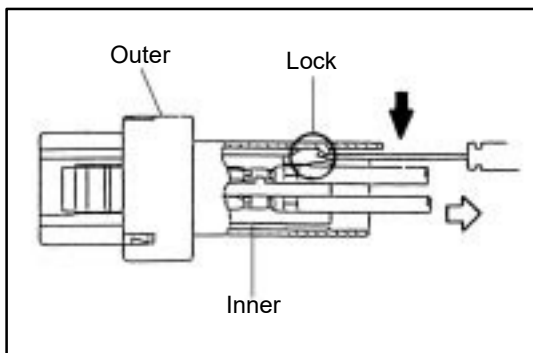


- (5) Move the retainer until it becomes the initial condition.

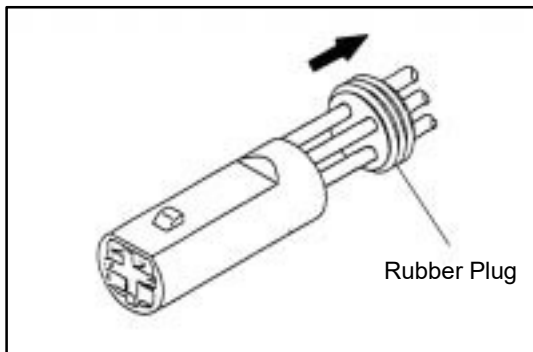


Type J
[Male]

- (1) Remove the rubber plug.

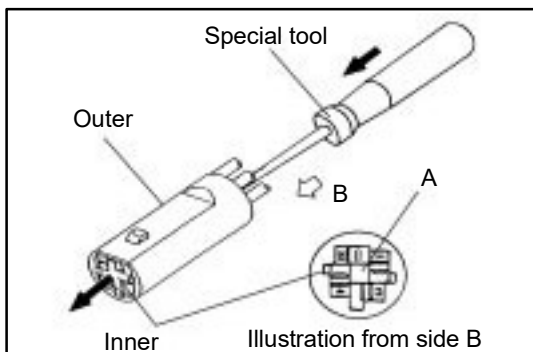


- (2) Push the lock of the inner using the special tool.
- (3) Pull the wire to the direction of the arrow pushing the lock up and remove the inner from the outer.

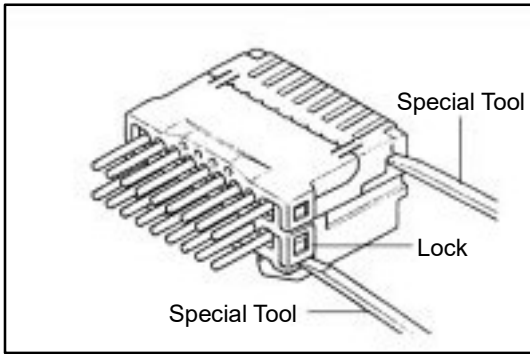


[Female]

- (1) Remove the rubber plug.



- (2) Insert the special tool into the outer shown in the illustration. Then push the area A of the inner and remove the inner from the outer.



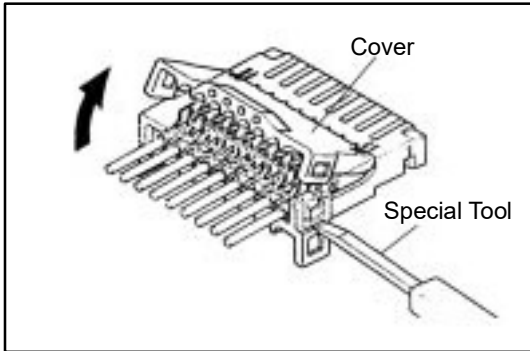
Type J (For Insulation Displacement Connector)

(1) Separate Connector

Using a special tool, release the lock and separate the connector into 2.

NOTICE:

Do not apply too much force to the lock arm.

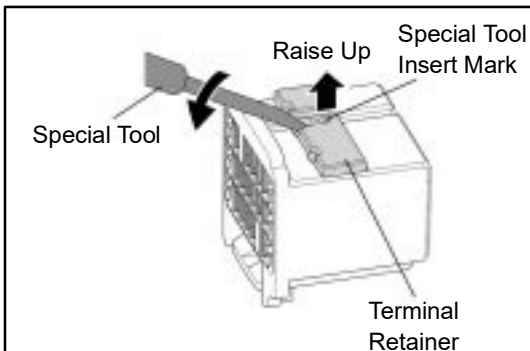


(2) w/ Cover : Open Connector Cover

Using a special tool, release the lock and open the cover.

NOTICE:

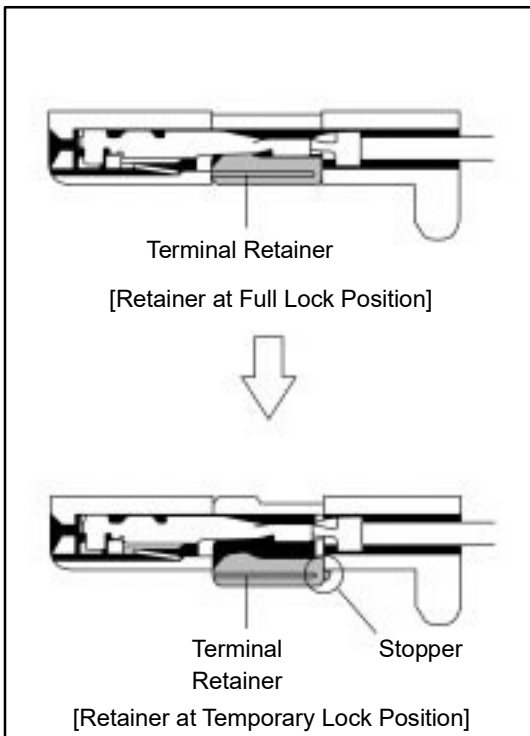
Do not apply too much force to the lock arm.

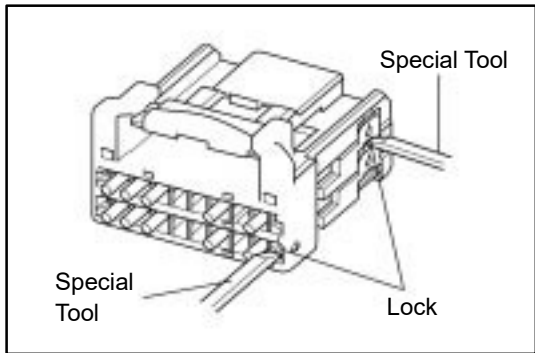
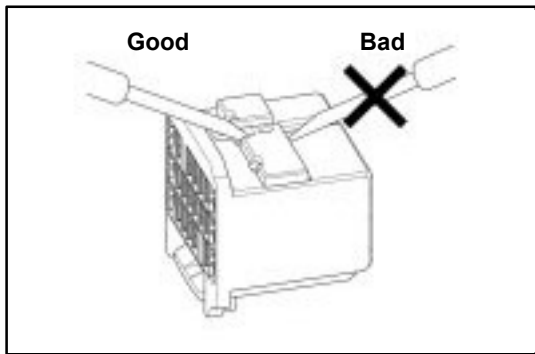


Type K (0.64 Type Connector)

(1) Using the special tool, raise the retainer up to the temporary lock position.

HINT: The needle insertion position varies according to the connector's shape (number of terminals, etc.), so check the position before inserting it.



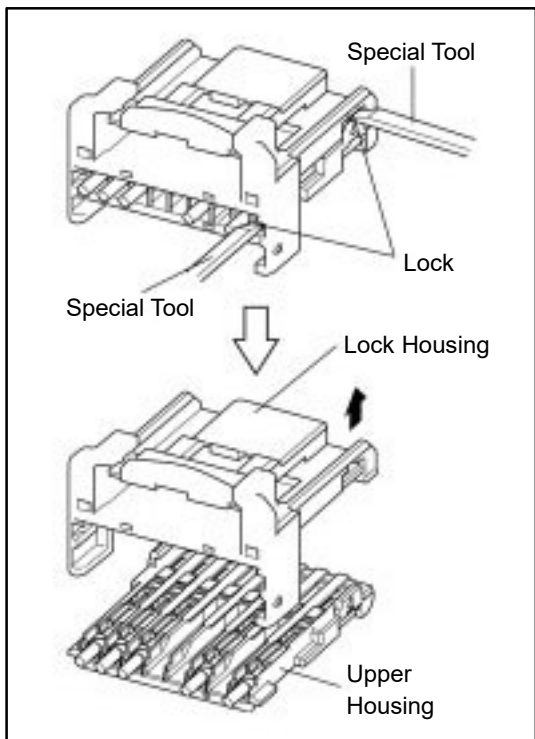


Type L (0.64 of Insulation Displacement Connector (IDC) Type)

- (1) Remove the Lower Housing
Using a special tool, release the lock and remove the lower housing.

NOTICE:

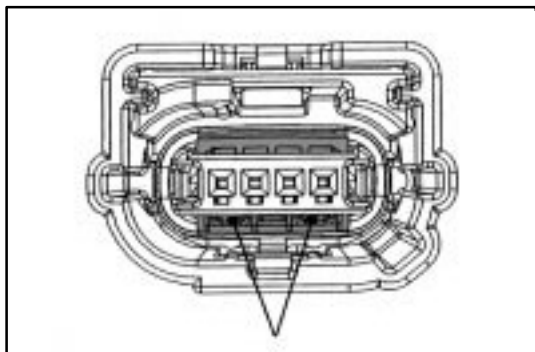
- Do not apply too much force to the lock arm.
- Mark the upper housing and lower housing to prevent mistakes when putting them together.



- (2) Remove the Upper Housing
Using a special tool, release the lock and remove the upper housing from the lock housing.

NOTICE:

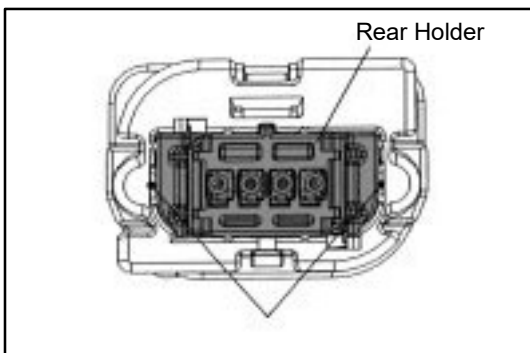
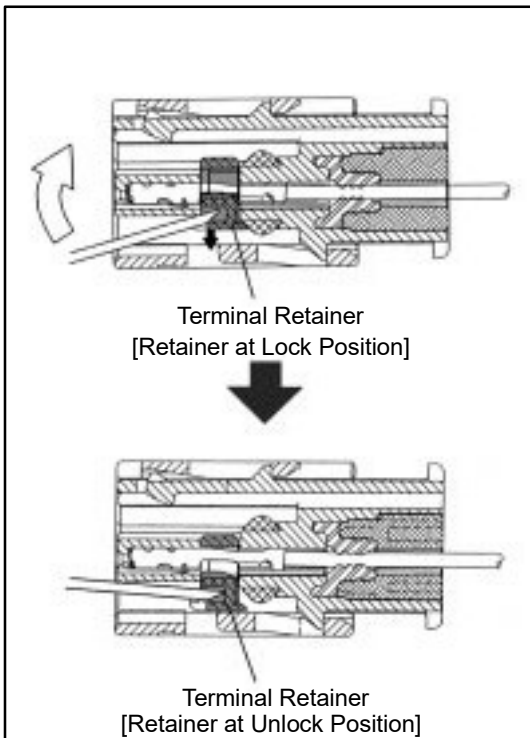
- Do not apply too much force to the lock arm.
- Mark the upper housing and lower housing to prevent mistakes when putting them together.



Type M (0.64 of Splash Proof Connector)

- (1) Release Terminal retainer.
Insert Special Tool at the location shown in the figure left.

Move Special Tool in the direction of arrow.

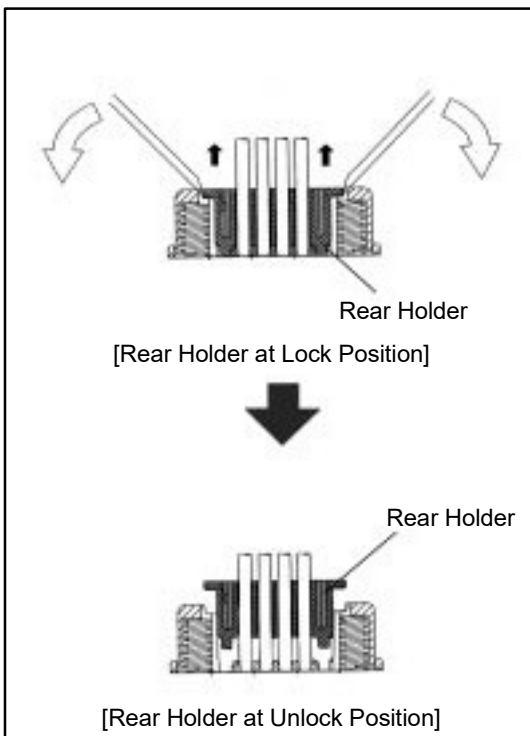


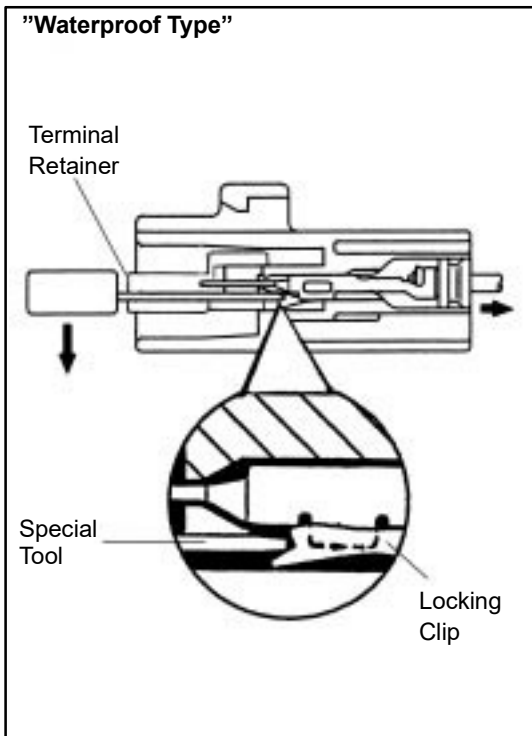
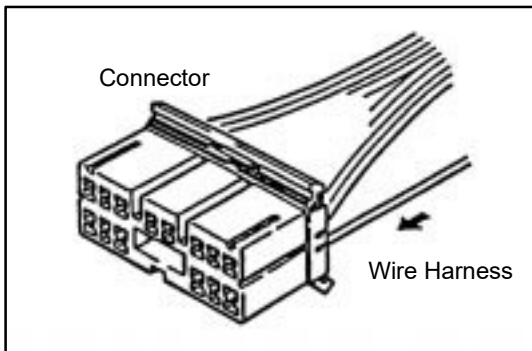
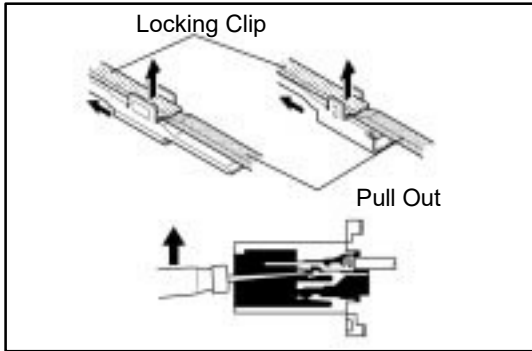
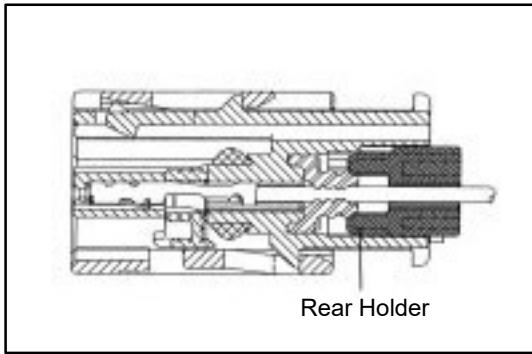
- (2) Release Rear holder.
Insert Special Tool at the location shown in the figure left.

Move Special Tool in the direction of arrow.

NOTICE:

- Do not remove Rear holder from Connector housing.
- If Rear holder completely comes off the housing, replace Connector with a new one.





4. Disconnect Terminal from Connector

- (a) Determine the primary locking system from the charts.
 1. Lock Located on terminal
 2. Lock Located on connector
 3. Method of entry and operation

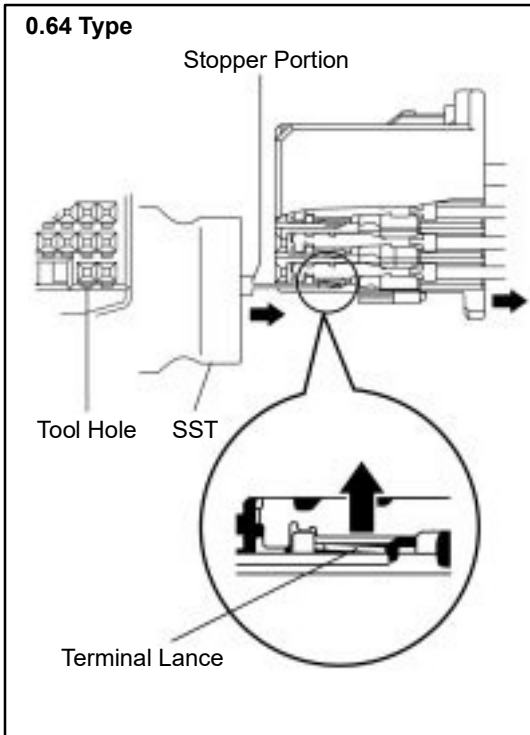
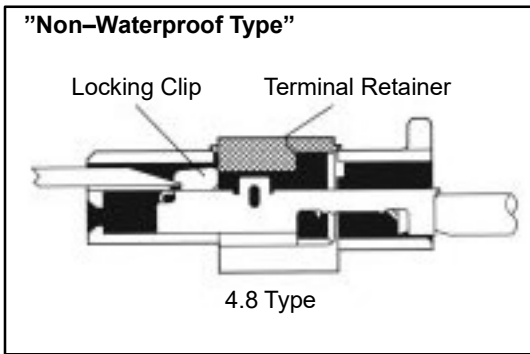
- (b) Push the terminal gently into the connector and hold it in this position.

- (c) Insert the special tool into the connector in the direction shown in the chart.
- (d) Move the locking clip to the unlock position and hold it there.

NOTE: Do not apply excessive force to the terminal. Do not pry on the terminal with the special tool.

- (e) Carefully withdraw the terminal from the connector by pulling the lead toward the rear of the connector.

NOTE: Do not use too much force. If the terminal does not come out easily, repeat steps (a) through (e).



(f) Insert the SST into the connector in the direction shown in the chart.

(g) Insert the SST fully to the tool hole, and push the terminal lance.

NOTICE:

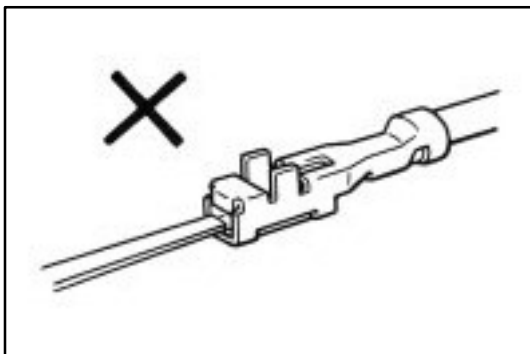
- The terminal has a lance shape, therefore, the housing may be damaged and the terminal may get stuck if forcibly pried by wires etc.

- Insert the SST so that the stopper portion surface is facing up.

(h) Carefully withdraw the terminal from the connector by pulling the lead toward the rear of the connector.

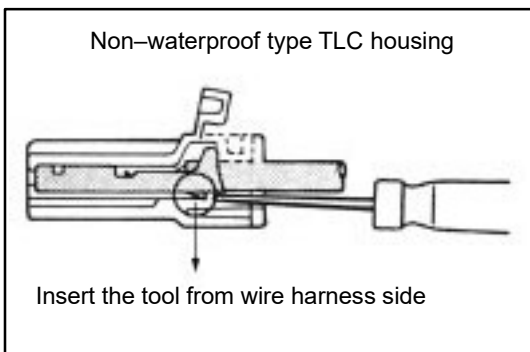
NOTICE:

Removal of the terminal from housing cavity will cause damage to the wire seal section, deteriorating waterproofing performance. Replace the connector with a new one.



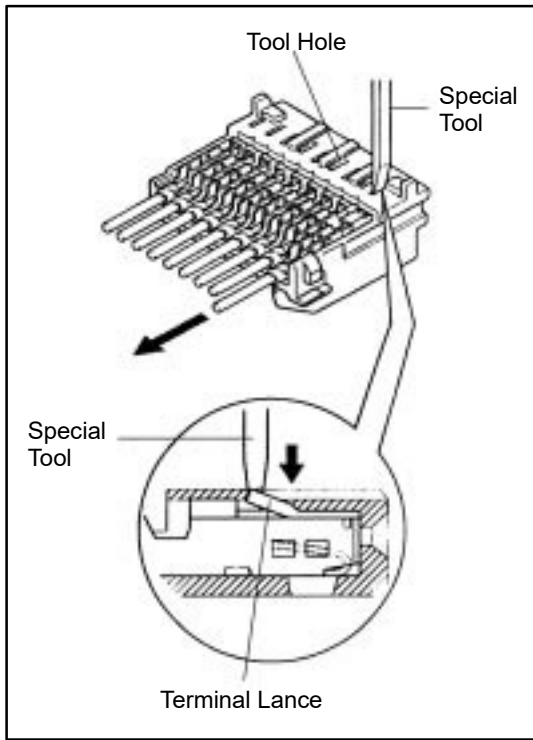
NOTICE:

Do not insert the special tool into the female terminal box. If you do so, replace the terminal with the new one whether the terminal is broken or not.



NOTICE:

As for Non-waterproof type TLC housing, insert the special tool into the housing from wire harness side.

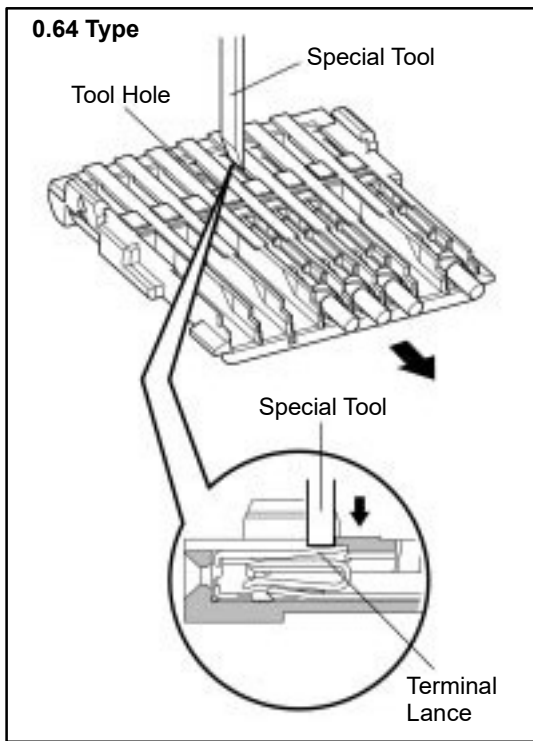


Insulation Displacement Connector Type

- (a) Using a special tool, push the terminal lance from the tool hole.
- (b) Carefully withdraw the terminal from the connector by pulling the lead toward the rear of the connector.

NOTICE:

- Do not use too much force. If the terminal does not come out easily, repeat step (a).
- Always change the wire with the repair wire, in accordance with page B-27.

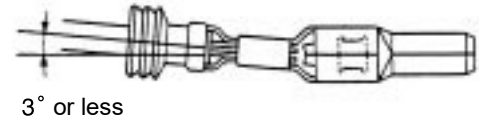


Terminal Deformation

(1) Terminal Bending in Vertical Direction



(2) Terminal Bending in Horizontal Direction



5. Inspect the terminal and the connector for damage.

NOTE:

- The locking clip is easily damaged.
- Do not reuse the damaged part.