

YPES-15-080

## Handling Manual for 2.3 II Connector

Note)

This Handling Manual is subject to change without any prior notice.  
Please ask us for the latest version as necessary.

YAZAKI CORPORATION  
YAZAKI PARTS Co., Ltd.  
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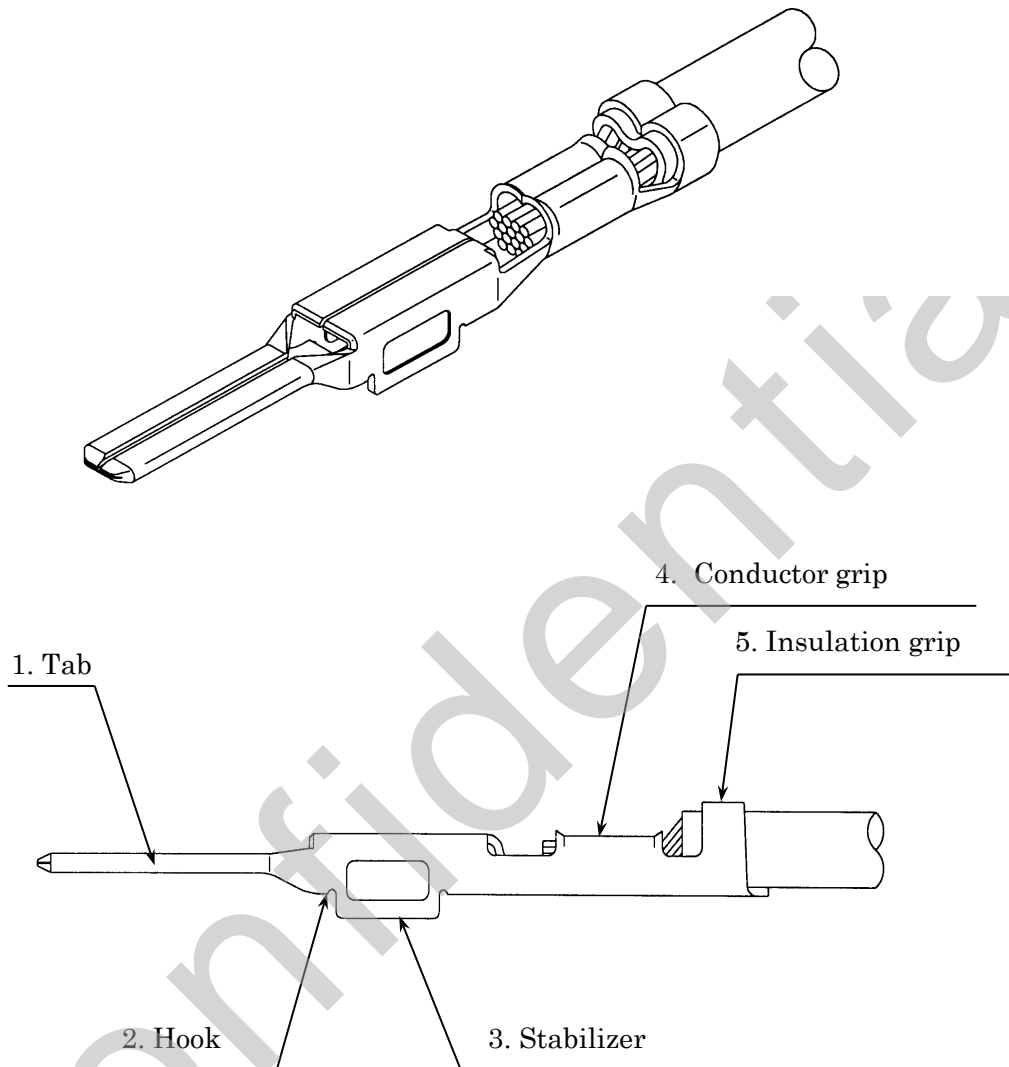
Thank you for using our product.  
 This handling manual specifies the minimum requirements on using this product.  
 Please always observe all of these requirements when you handle this part.  
 We shall not be liable for any damage resulting from misuse or failure to follow this handling manual.

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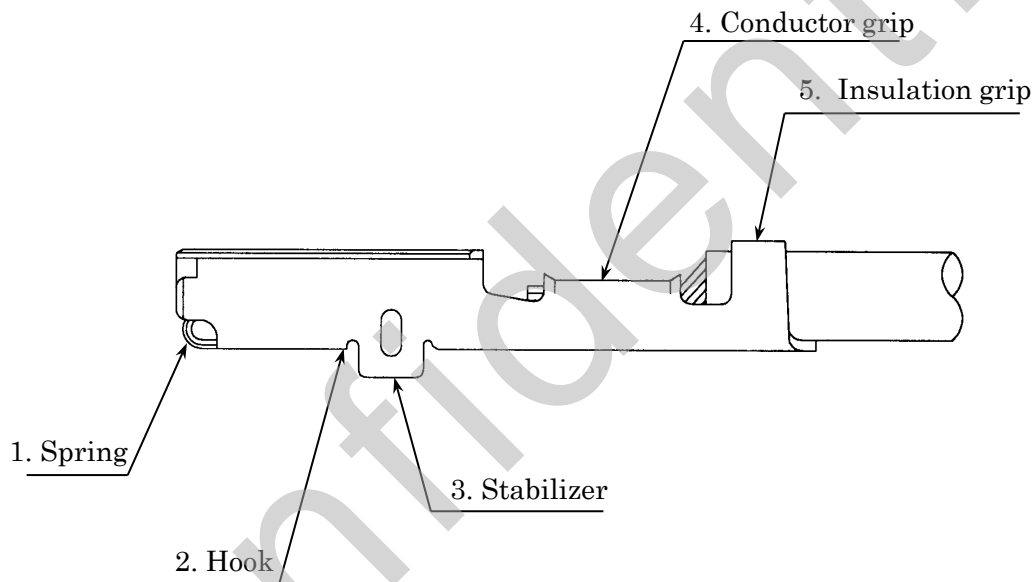
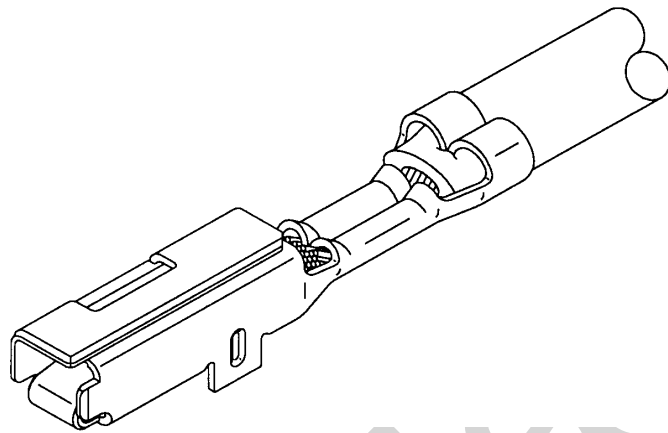
## 1. Part names and functions

### 1-1. Male terminal



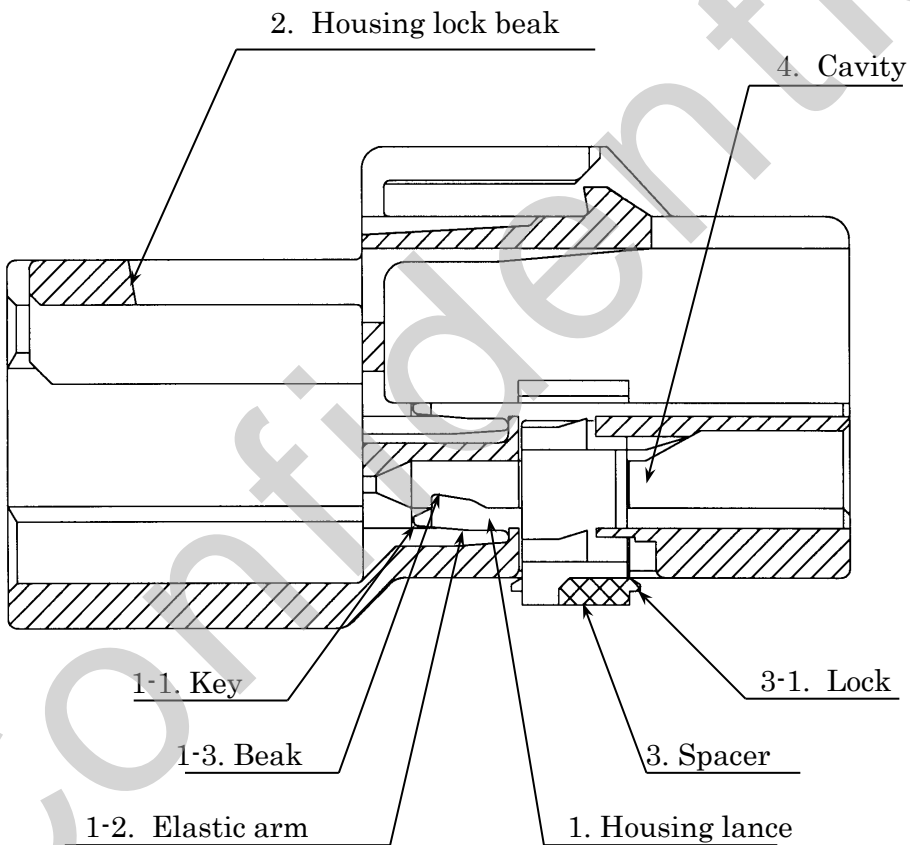
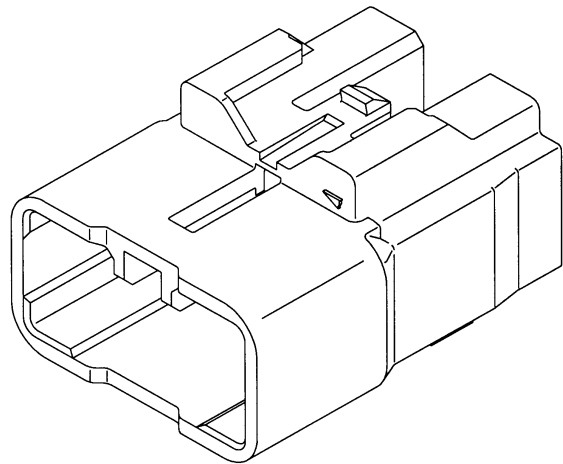
No.	Part name	Function
1	Tab	Contact with a female terminal
2	Hook	Locking with a male housing
3	Stabilizer	Prevent a terminal from being inserted improperly
4	Conductor grip	Crimping on a conductor
5	Insulation grip	Crimping on wire insulation

## 1-2. Female terminal



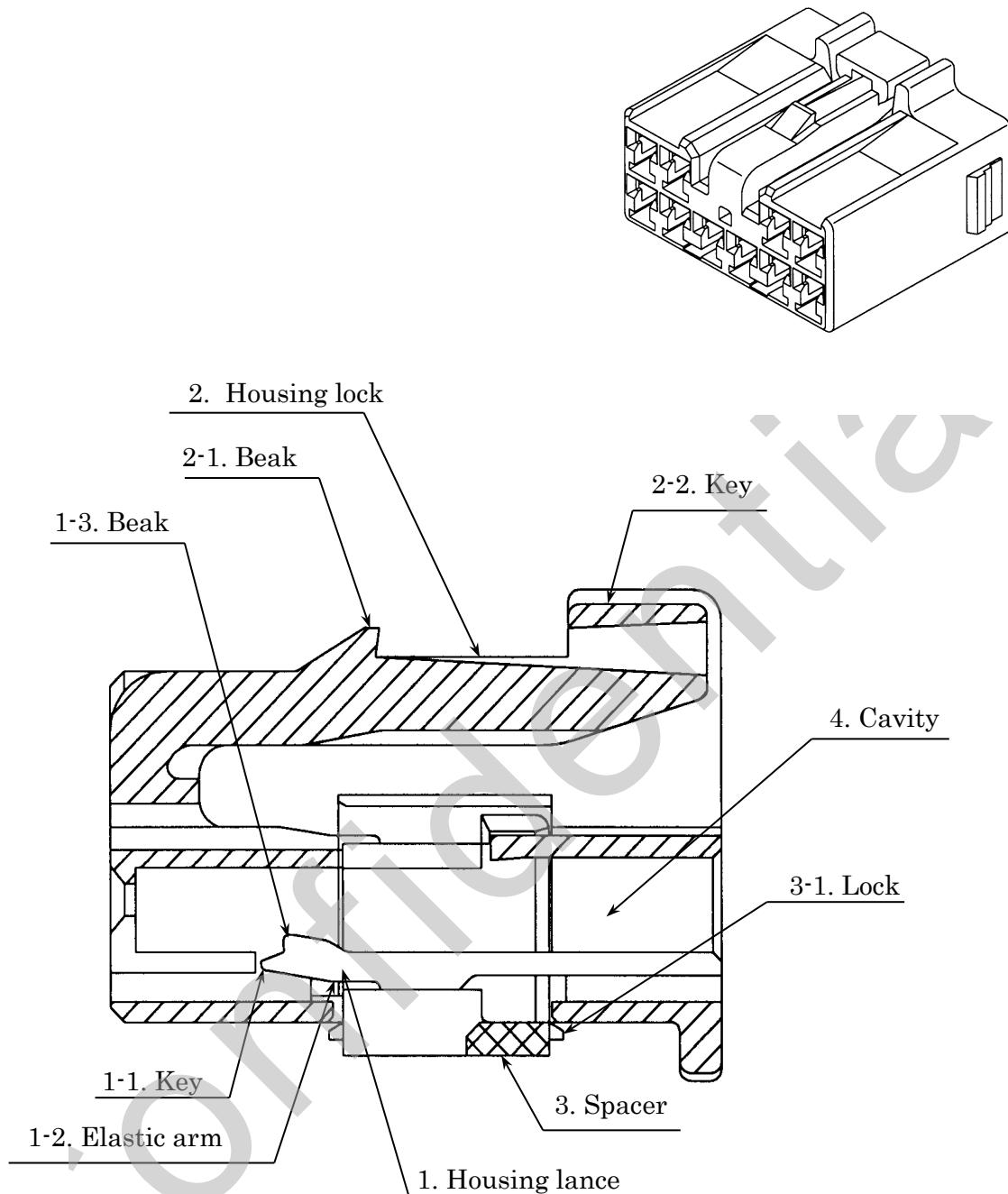
No.	Part name	Function
1	Spring	Contact with a male terminal
2	Hook	Locking with a female housing
3	Stabilizer	Prevent a terminal from being inserted improperly
4	Conductor grip	Crimping on a conductor
5	Insulation grip	Crimping on wire insulation

1-3. Male housing



No.	Part name		Function
1	Housing lance	1-1   Key	Feature used to release the housing lance
		1-2   Elastic arm	Retaining of beak
		1-3   Beak	Locking with a male terminal
2	Housing lock beak		Locking with a female housing
3	Spacer		Detection of a half-inserted terminal
	3-1   Lock		Locking / releasing of a spacer
4	Cavity		Accommodation for a terminal

## 1-4. Female housing



No.	Part name		Function	
1	Housing lance	1-1	Key	Feature used to release the housing lance
		1-2	Elastic arm	Retaining of a beak
		1-3	Beak	Locking with a female terminal
2	Housing lock	2-1	Beak	Locking with a male housing
		2-2	Key	Surface used to release the housing lock
3	Spacer		Detection of a half-inserted terminal	
	3-1	Lock	Locking / releasing of a spacer	
4	Cavity		Accommodation for a terminal	

## 2. Handling of parts

### 2-1. Incoming inspection

Upon receipt of the parts, inspect them for the following points:

1) Terminal

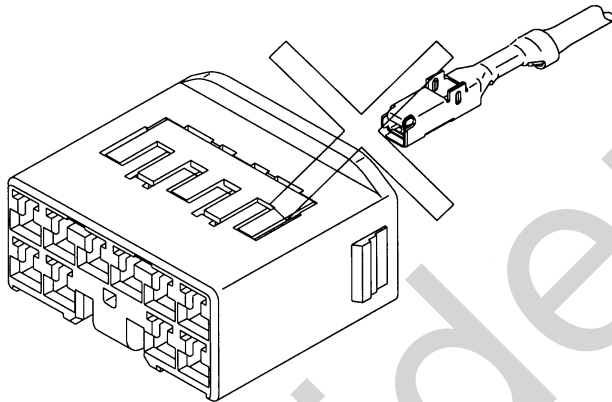
- Foreign object or wrong product
- Burr, crack, deformation or flaw

2) Male and female housing (including spacers)

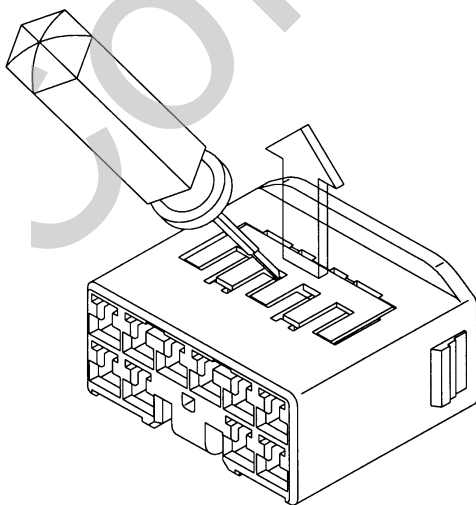
- Foreign object or wrong product

<Note>

When the spacer is in its full-lock position, it is not possible to insert the terminal into the cavity. Please use a removal tool to move the spacer back to the pre-set position. (Refer to 6-2 and 6-3)



Terminal cannot be inserted



Use the tool to move the spacer back to the pre-set position.

Precaution:

Replace damaged and deformed parts during the operation of the spacer, such that its functioning is affected.

(Similar to M and F)

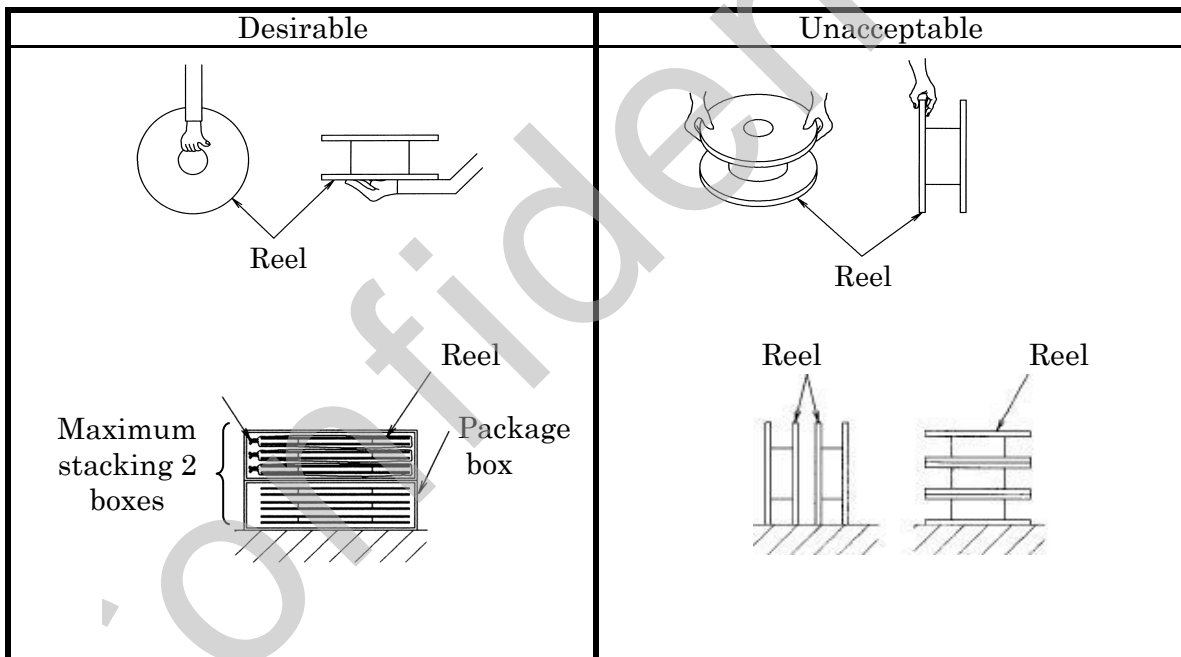
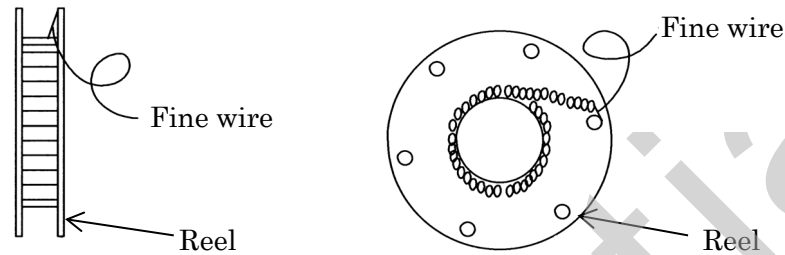
## 2-2. Precautions for transportation, storage and handling of parts

The following care should be taken in order to avoid deformation and/or damage during storage and transportation. For the optimum use environment and assembly conditions, ask our sales representative.

### 1) Terminal

Fasten the terminal to the reel securely with e.g. a fine wire in order to prevent the terminal from loosening in the reel.

Recommended practices for transportation / storage of terminal reels are shown below.



### Transportation

- Paper-made reels should be handled with care not to be damaged.
- Place the parts in a package in order to protect parts from impact during transportation. Care should be taken not to deform or damage the parts during the packaging.
- Care should be taken to avoid any harsh impact e.g. by dropping.

### Storage

- Terminal (reel) should be stored in the box in which they were shipped. Terminal should be protected especially from water, dust, oil and poisonous gas. Always use protection materials, and do not leave it without protections.
- Terminal (reel) should be stored indoors, away from direct sunlight.
- Keep the terminal away from high temperature and humidity environment.



## 2) Male and female housing (including spacers)

### Transportation

- Place the parts in a packaging to protect them from impact during transportation. Care should be taken not to deform or damage the parts during the packing.
- Care should be taken to avoid any harsh impact e.g. by dropping.

### Storage

- Parts should be stored in the box in which they were shipped. Parts should be protected especially from water, dust, oil and poisonous gas. Do not leave it without protections.
- Parts should be stored indoors, away from direct sunlight.
- Keep the terminal away from high temperature and humidity environment.

### 3. Terminal-wire crimping

#### 3-1. Terminal crimping standard

Contact our sales representative for the official crimping standard.

<NOTE>

- Make sure to crimp in accordance with the specified crimping parameters. If they are not followed, the part may not work properly because the retention force and/or.
- The above is only applicable for the case when YAZAKI's crimping die is used.

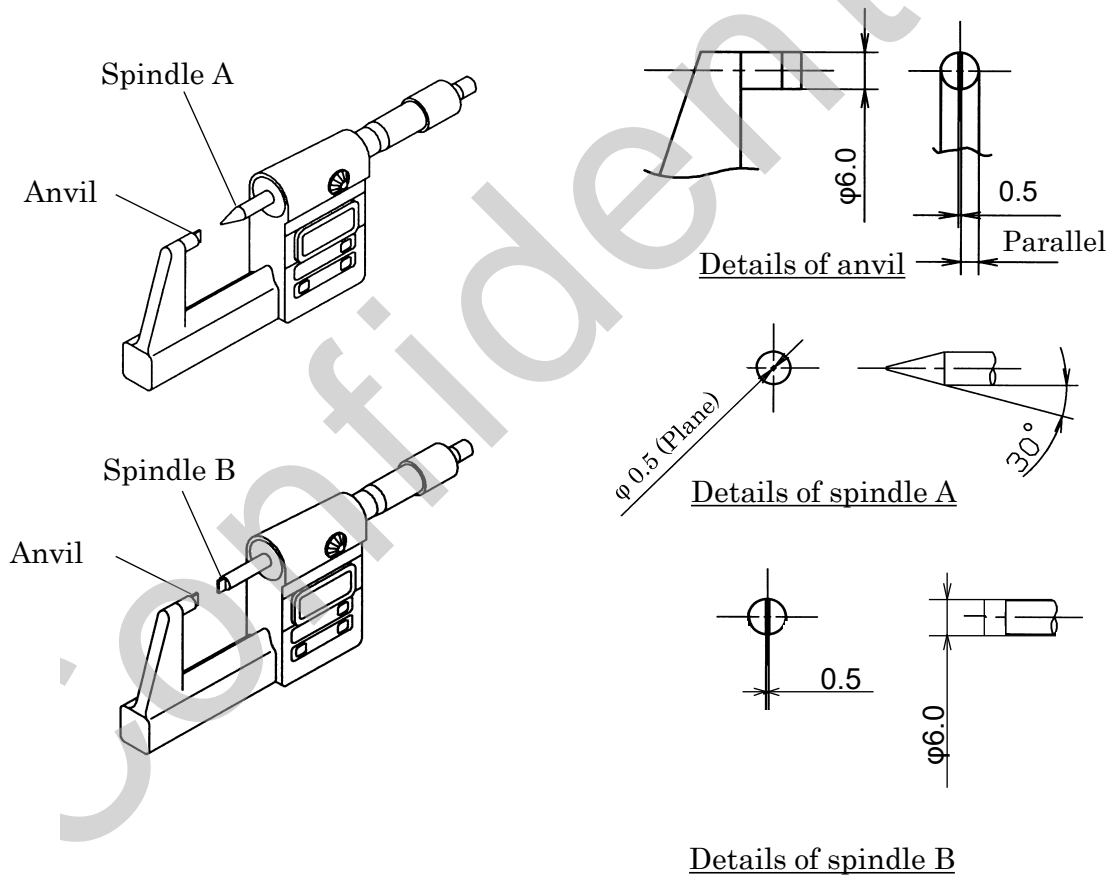
#### 3-2. Measurement equipment and method for crimping height and width

##### 3-2-1. Equipment

Use a micrometer to measure the dimensions.

Use the anvil and spindle type mentioned below.

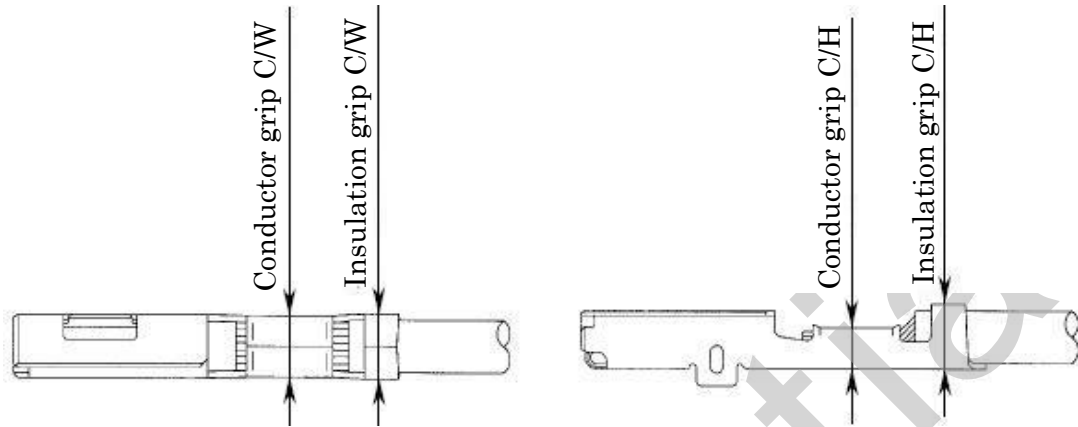
Mount the micrometer in a stand during the measurement.



Measuring area	Spindle type to be used
Conductor grip crimp height	Spindle A
Conductor grip crimp width	Spindle B
Insulation grip crimp height	
Insulation grip crimp width	

### 3-2-2. Measurement method

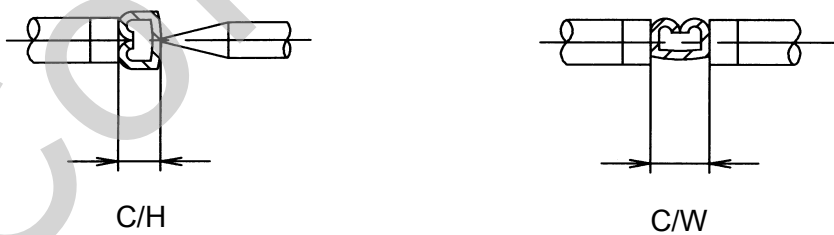
Measure the dimension at the midpoint of conductor and insulation grips.



<Precaution>  
Do not measure the crimp height at this position.  
( Where there is a difference in level)

C/H: Crimp height  
C/W: Crimp width

Conductor grip: Measure the dimension as shown in the illustration below using a micrometer.

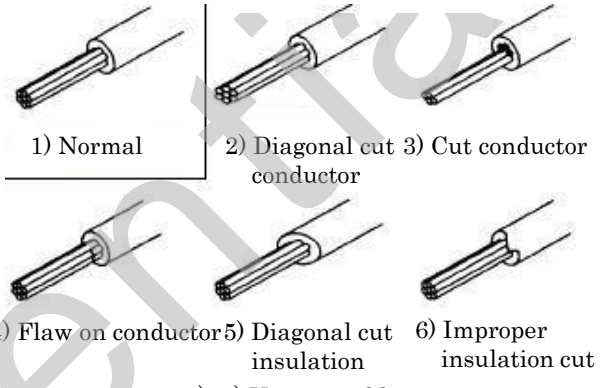
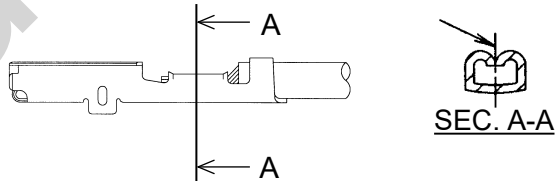
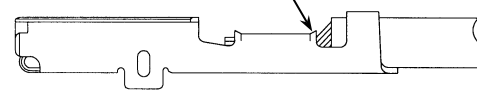
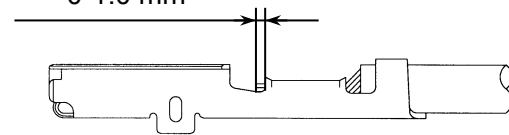
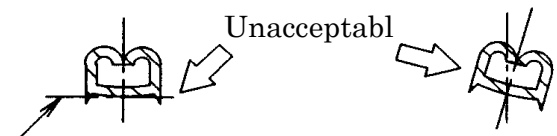


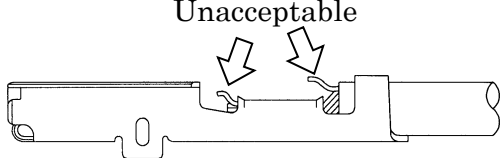
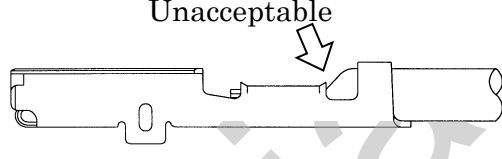
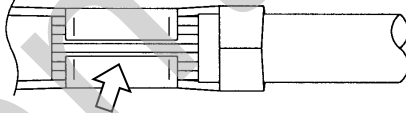
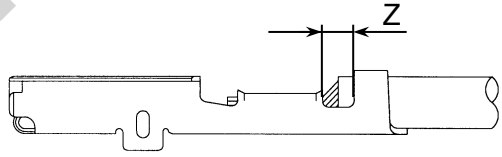
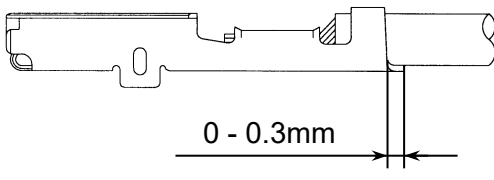
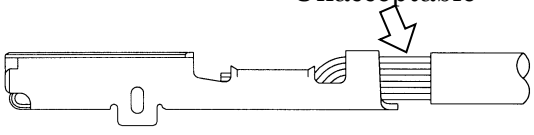
Insulation grip: Measure the dimension as shown in the illustration below using a micrometer.

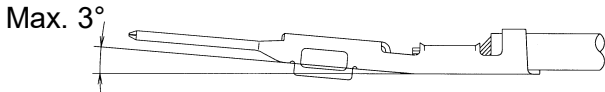
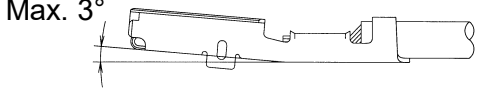
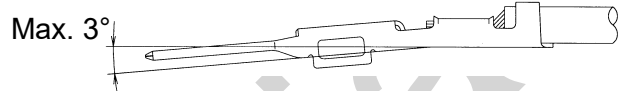
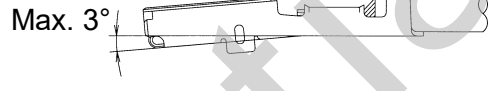
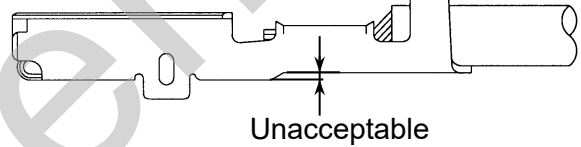
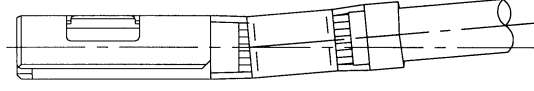
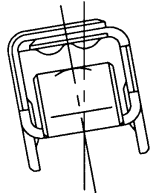
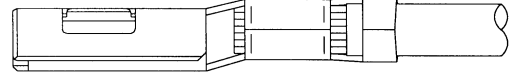


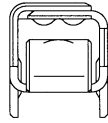

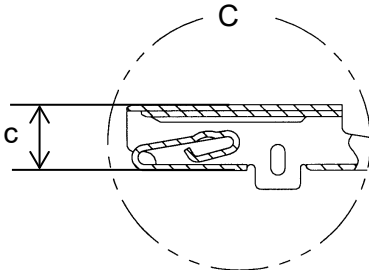
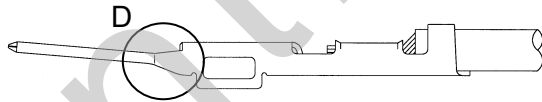
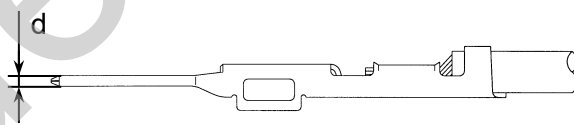
3-3. Precautions and points to be checked for crimping

- Wires should be crimped immediately after the stripping of insulation. Storing and transportation of stripped wires should not be allowed otherwise wire strands are loosened.
- Do not use any deformed or damaged terminal.
- Insert terminal to a housing immediately after crimping. If it is not possible, protect the terminal with e.g. a clean plastic bag.
- During/after crimping, check the quality of parts for the points listed in the following tables. Crimp within indicated dimensions in the table if applicable.

Parts	Check items	
1. Wire	Wire strip 1 ) Normal 2 ) Diagonal cut conductor 3 ) Cut conductor 4 ) Flaw on conductor 5 ) Diagonal cut insulation 6 ) Improper insulation cut	 <p>1) Normal      2) Diagonal cut conductor      3) Cut conductor</p> <p>4) Flaw on conductor      5) Diagonal cut insulation      6) Improper insulation cut</p> <p>2)~6) Unacceptable</p>
2. Conductor grip (Male/female)	1) Normal	Symmetrical with this line  <p>SEC. A-A</p>
	Bellmouth	There must be bellmouth here.  Part without bellmouth is not allowed.
	Exposed conductor length	0-1.0 mm 
	2) Unacceptable crimping Burr and twist	 <p>Unacceptable</p> <p>Burr must not protrude from this line</p> <p>SEC. A-A</p>

Parts	Check items	
2. Conductor grip (Male/female)	2) Unacceptable crimping Conductor raveling	 <p>Unacceptable</p> <p>Do not use a terminal with conductor strands raveled.</p>
	Insulation crimped by conductor barrel	 <p>Unacceptable</p>
	Conductor is exposed in between crimp wings	 <p>Unacceptable</p> <p>Do not use a terminal with conductor exposed in between the wings.</p>
3. Insulation grip (Male/female)	1) Normal	 <p>Check that the end of insulation is at between conductor and insulation grips (in "Z").</p>
	Cut off tab length	 <p>0 - 0.3mm</p>
	2) Unacceptable crimping Insulation slipped off	 <p>Unacceptable</p>

Parts	Check items	
4. Terminal deformation by crimping (Male/female)	1) Bend-up	 <p>Max. 3°</p>  <p>Max. 3°</p>
	2) Bend-down	 <p>Max. 3°</p>  <p>Max. 3°</p>
	3) Step on conductor grip	 <p>Unacceptable</p>
	4) Twist	 <p>Twisting which can be seen with naked eyes is not allowed.</p>  <p>Twisting which can be seen with naked eyes is not allowed.</p>
	5) Terminal deformation due to failure in feeding of terminal	<p>Unacceptable</p> 

Parts	Check items	
4. Terminal deformation by crimping (Female)	(6) Box deformation	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Acceptable</p> </div> <div style="text-align: center;">  <p>Unacceptable</p> </div> </div> <hr/> <div style="text-align: center;">  </div> <p>Do not use parts with any deformation in C. Measure dimension "c" before/after crimping to check that there is no dimensional change.</p>
(Male)	(7) Tab deformation	<div style="text-align: center;">  </div> <p>Do not use parts with deformation in D.</p> <div style="text-align: center;">  </div> <p>Measure dimension "d" before/after crimping to check that there is no dimensional change.</p>

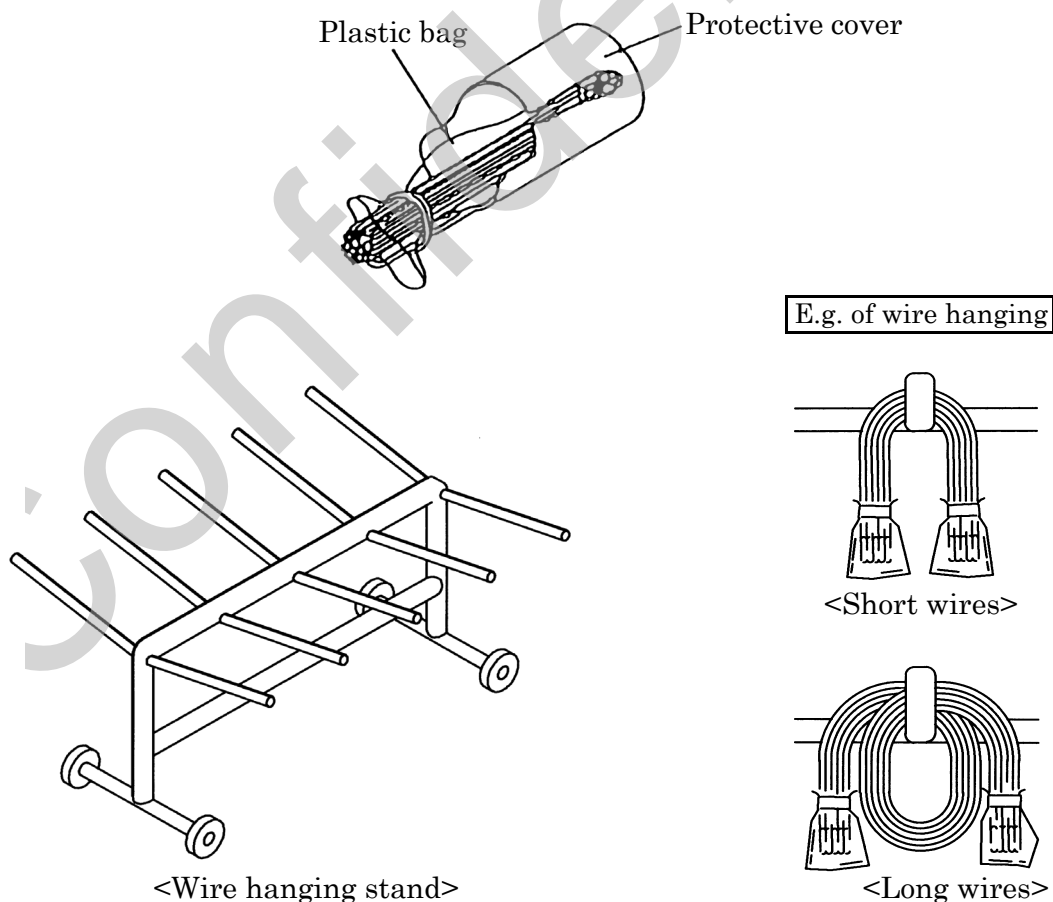
#### 4. Handling of terminated wires

Insert terminated wires to the housing immediately after crimping.

The following care should be taken in handling of terminated wires so as not to deform or damage them during storage or transportation.

- Terminated wires should be bundled together with e.g. a rubber band. The number of wires each other or deformation and/or damage may occur due to the weight of their own. Do not tap the wire ends when bundling.
- Terminated wires should be covered with a plastic bag to protect them from dust. Do not take the plastic bag or a protective cover off from the terminated wires until just before use.
- A wire hanging stand or a container with lid should be used for transportation. Do not stack the terminated wires.
- Care should be taken for the wire ends not to touch the floor when hanging them on the stand.
- Do not throw terminated wires during transportation.

#### Example of protection of terminated wires



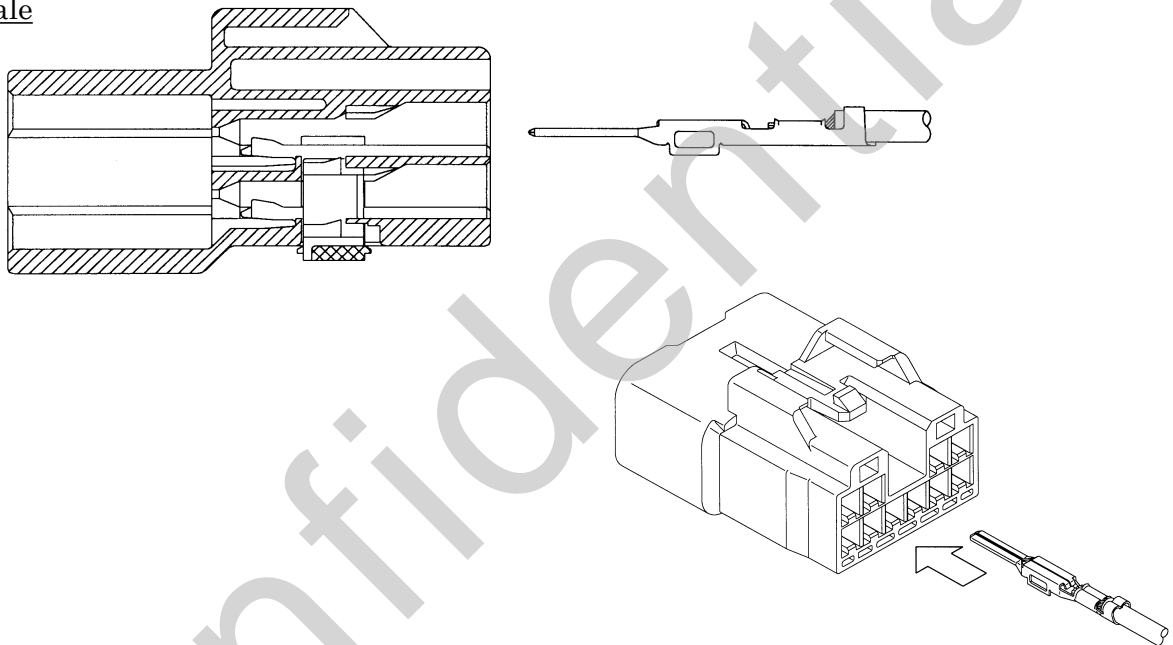


## 5. Insertion of terminal and attachment of spacer to housing

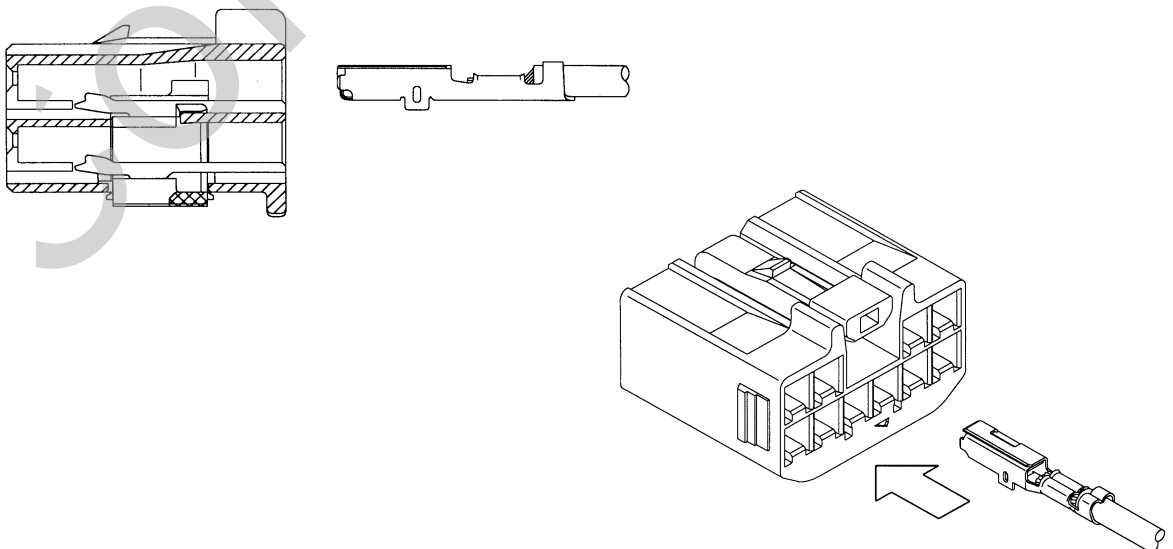
### 5-1. Male/female terminal insertion to housing

- 1) Confirm that the spacer is in the pre-set position before inserting the terminal. If it is not in the pre-set position, move it back to the pre-set position. (Refer to 6-3 and 6-4)
- 2) Check that the terminal is free of deformation or damage.
- 3) Terminal into the housing. An audible 'clicking' sound indicates that the terminal is fully seated and locked in the cavity.
- 4) Pull the wire lightly to confirm that the terminal is properly locked up in the cavity.

#### Male



#### Female

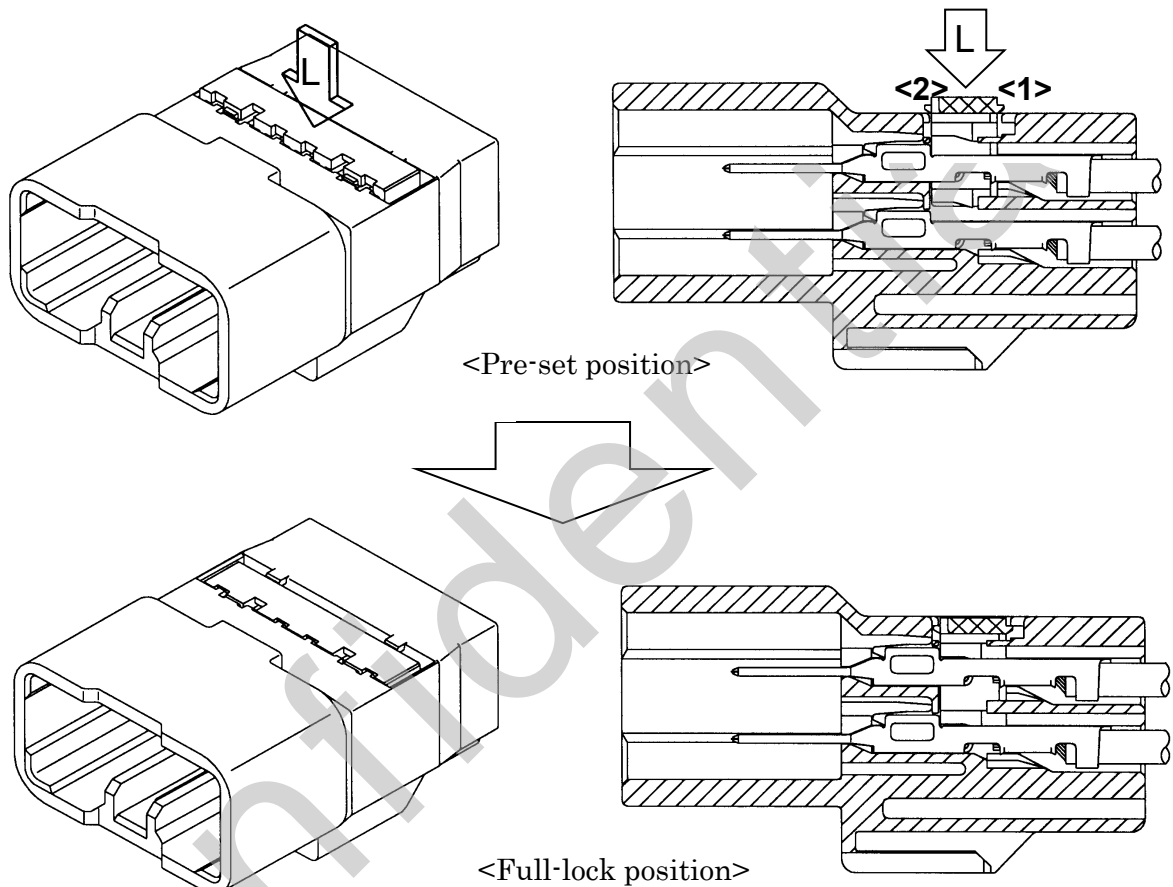


#### <Precaution>

- Replace any deformed or damaged parts with new ones.

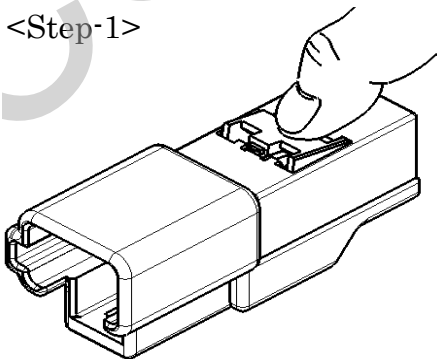
## 5-2. Attachment of male spacer (Insertion into full-lock position)

- 1) After inserting terminal, push the spacer in the direction 'L' to insert it into the full-lock position. For the connector having 2 terminal rows, push it horizontally, or push to insert the side <1> first and then <2> in order to prevent the locking feature from being deformed. For the connector having 1 terminal row, always push to insert the side <Step-1> first and then <Step-2>.
- 2) Confirm that the spacer is securely locked in the full-lock position.

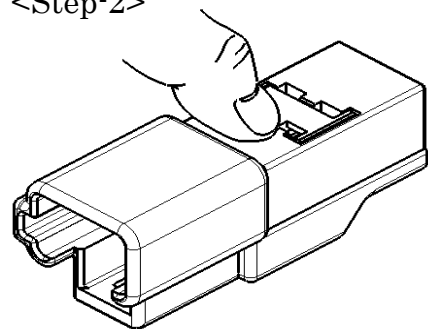


### Insertion of spacer on connector having 1 terminal row

<Step-1>

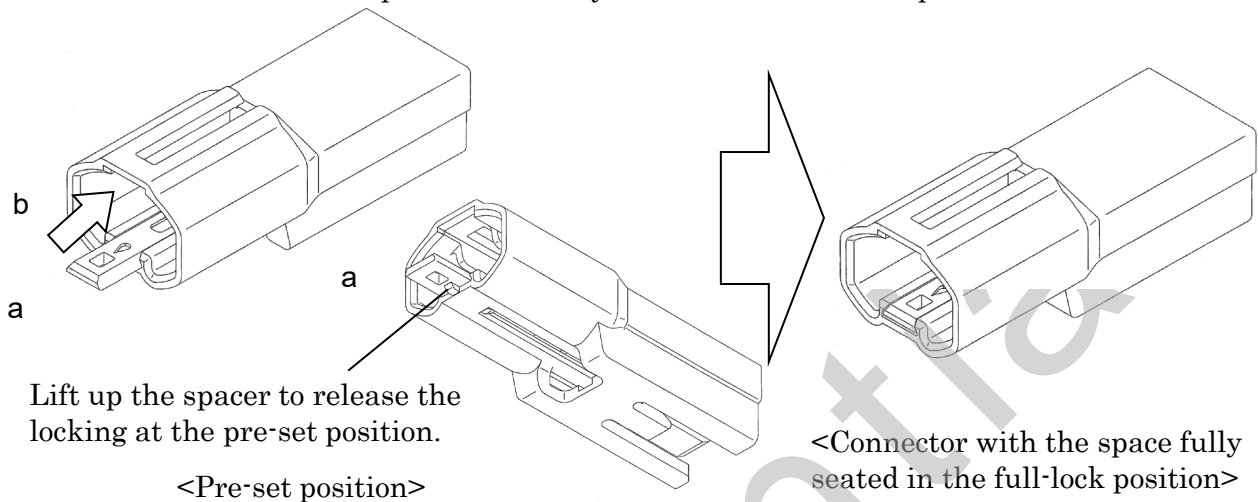


<Step-2>



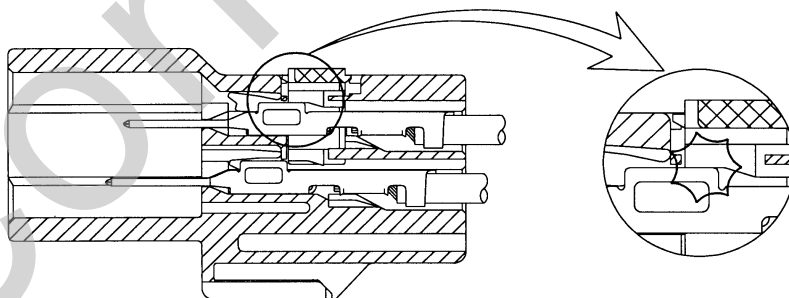
## Attachment of male spacer: 7282-4424 (Insertion into full-lock position)

- 1) After inserting terminal, lifting up the spacer in the direction 'a' push it in the direction 'b' to move it to the full-lock position.
- 2) Confirm that the spacer is securely locked in the full-lock position.



## &lt;Precautions&gt;

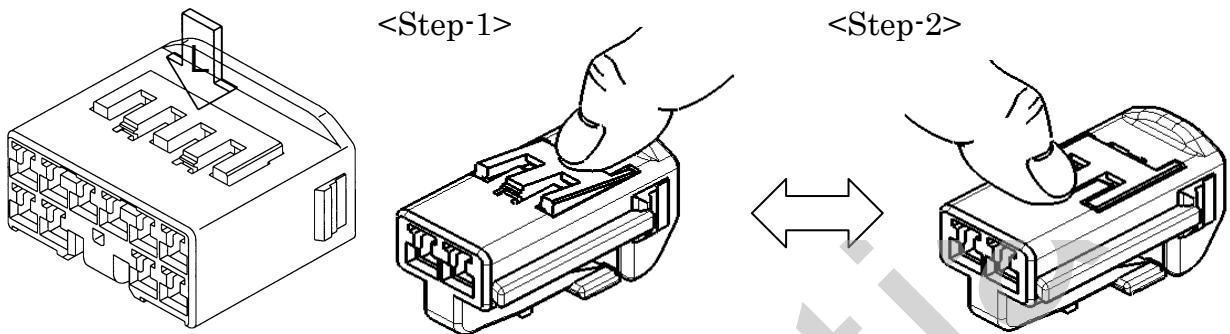
- Care should be taken not to deform the parts.  
Replace the spacer in case it is damaged and deformed such that its functioning is affected.
  - Spacer cannot be inserted in the full-lock position if the connector is in the conditions below:
    - \* Terminal is not completely inserted in the cavity. (Terminal incomplete insertion)
    - \* Terminal is inserted in a wrong orientation. (Terminal wrong insertion)
- In these conditions, if the spacer was forcibly inserted, replace the parts with new ones.



Terminal incomplete insertion

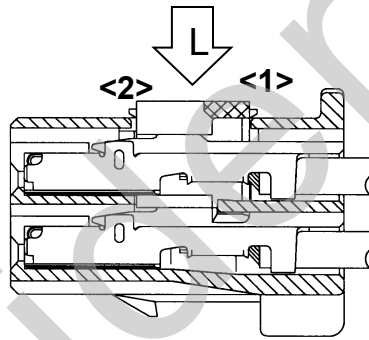
### 5-3. Attachment of female spacer (Insertion into full-lock position)

- 1) After inserting the terminal, move the spacer in the direction of the arrow L to seat it at the full set position. For attachment of the spacer, it must be done in the horizontal direction, in the order of <Step-1> → <Step-2> or <Step-2> → <Step-1>. Make sure not to deform the spacer's locking feature during the operation.

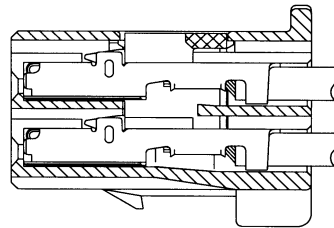
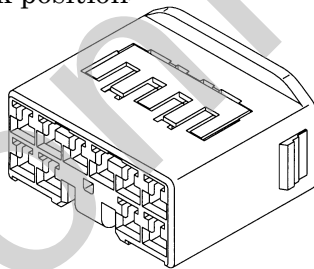


- 2) Confirm that the spacer is securely locked in the full-lock position.

<Pre-set position>

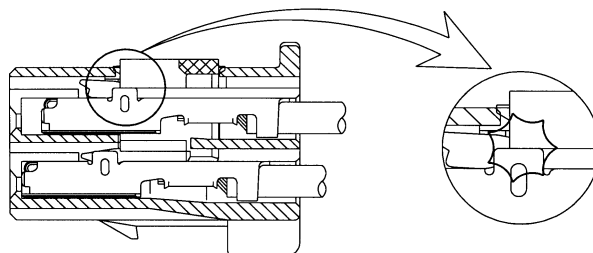


<Full-lock position>



<Precautions>

- Care should be taken not to deform the parts.  
Replace the spacer in case it is damaged and deformed such that its functioning is affected.
  - Spacer cannot be inserted in the full-lock position when:
    - \* Terminal is not completely inserted in the cavity. (Terminal incomplete insertion)
    - \* Terminal is inserted in a wrong orientation. (Terminal wrong insertion)
- In these conditions, if the spacer was forcibly inserted, replace the parts with new ones.



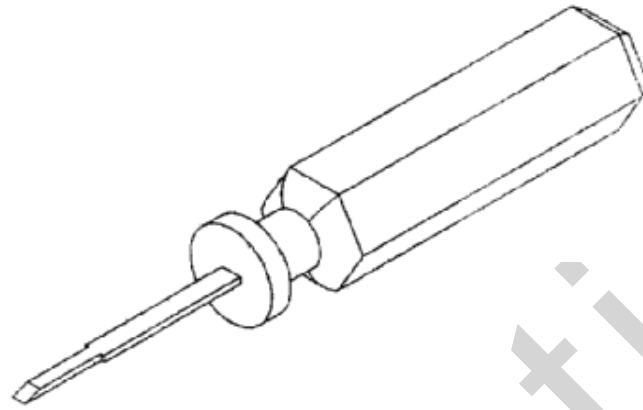
Terminal incomplete insertion

6. Removal of terminal and spacer

6-1. Spacer and terminal removal tool

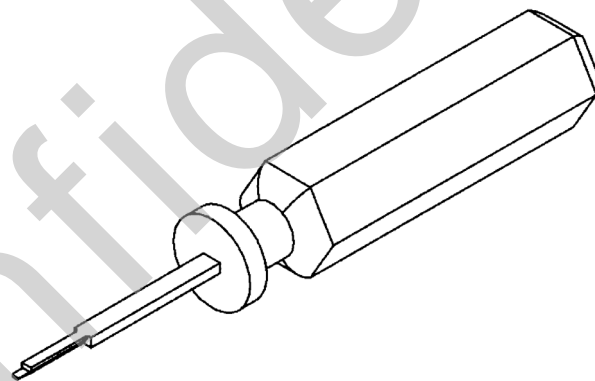
Use a designated tool shown below.

•Terminal removal tool

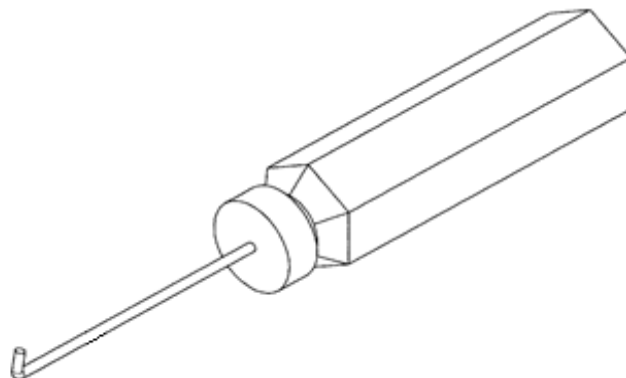


No.49YA000056(1-15)

•Spacer removal tool



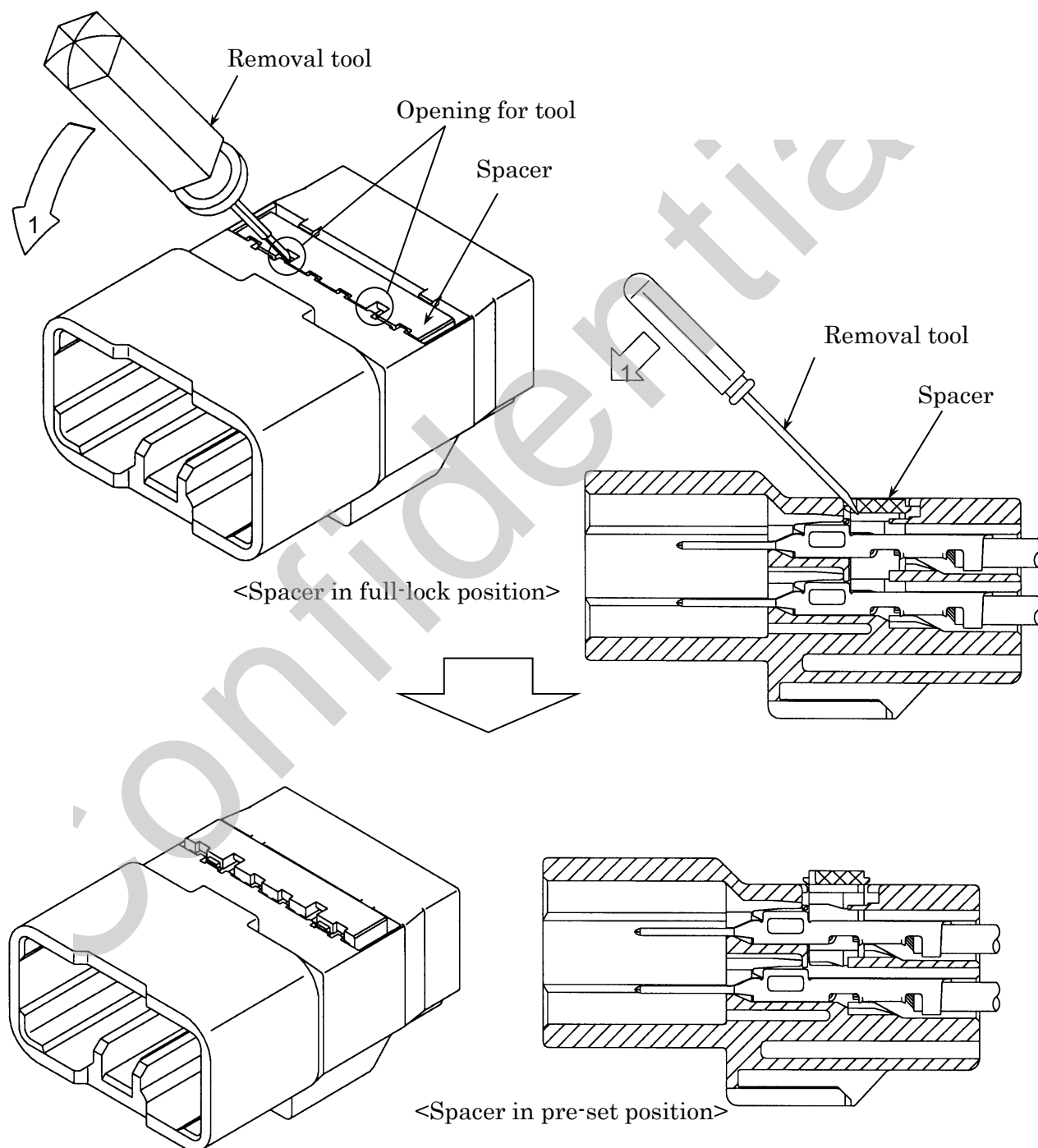
No.49YA000078(1-08)



No.49YA000064(ZF) (for 7282-4424)

## 6-2. Release of male spacer from full-lock position

- 1) As shown below, insert the tool (refer to 6-1) in the opening for the spacer.
- 2) Tilt the tool in the direction of '1' lightly so that the spacer is removed to the pre-set position. Do not tilt the tool more than necessary otherwise the pre-set locking features will be damaged.
- 3) Confirm that the spacer is in the pre-set position.

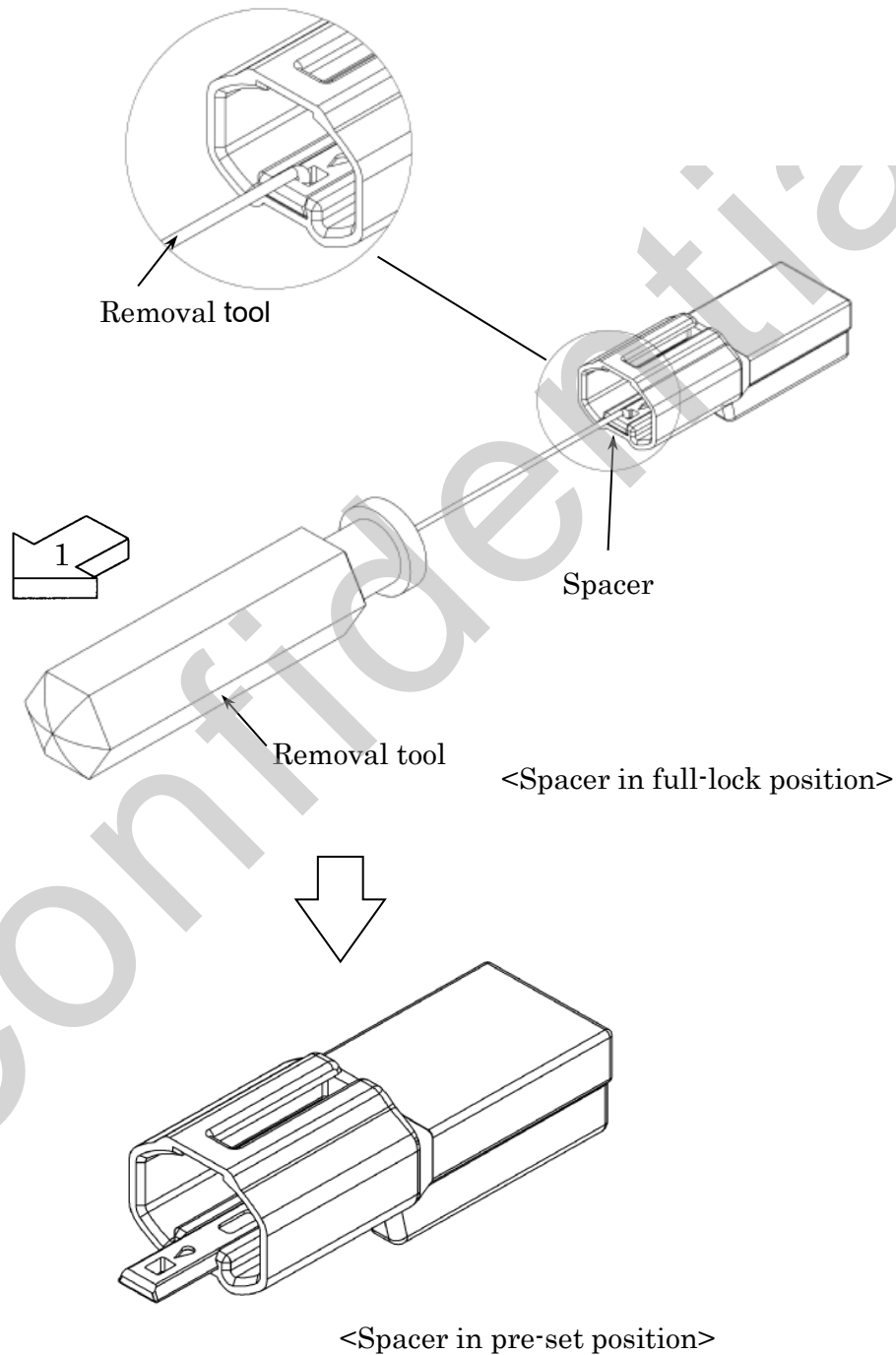


### <Precautions>

- Care should be taken not to deform the parts.  
Replace the spacer in case it is damaged and deformed such that its functioning is affected.

## Release of female spacer from full-lock position (7282-4424)

- 1) As shown below, insert the tool (refer to 6-1) in the opening for the tool.
- 2) Tilt the tool in the direction of '1' lightly so that the spacer is removed to the pre-set position. Do not tilt the tool more than necessary otherwise the pre-set locking features will be damaged.
- 3) Confirm that the spacer is in the pre-set position.

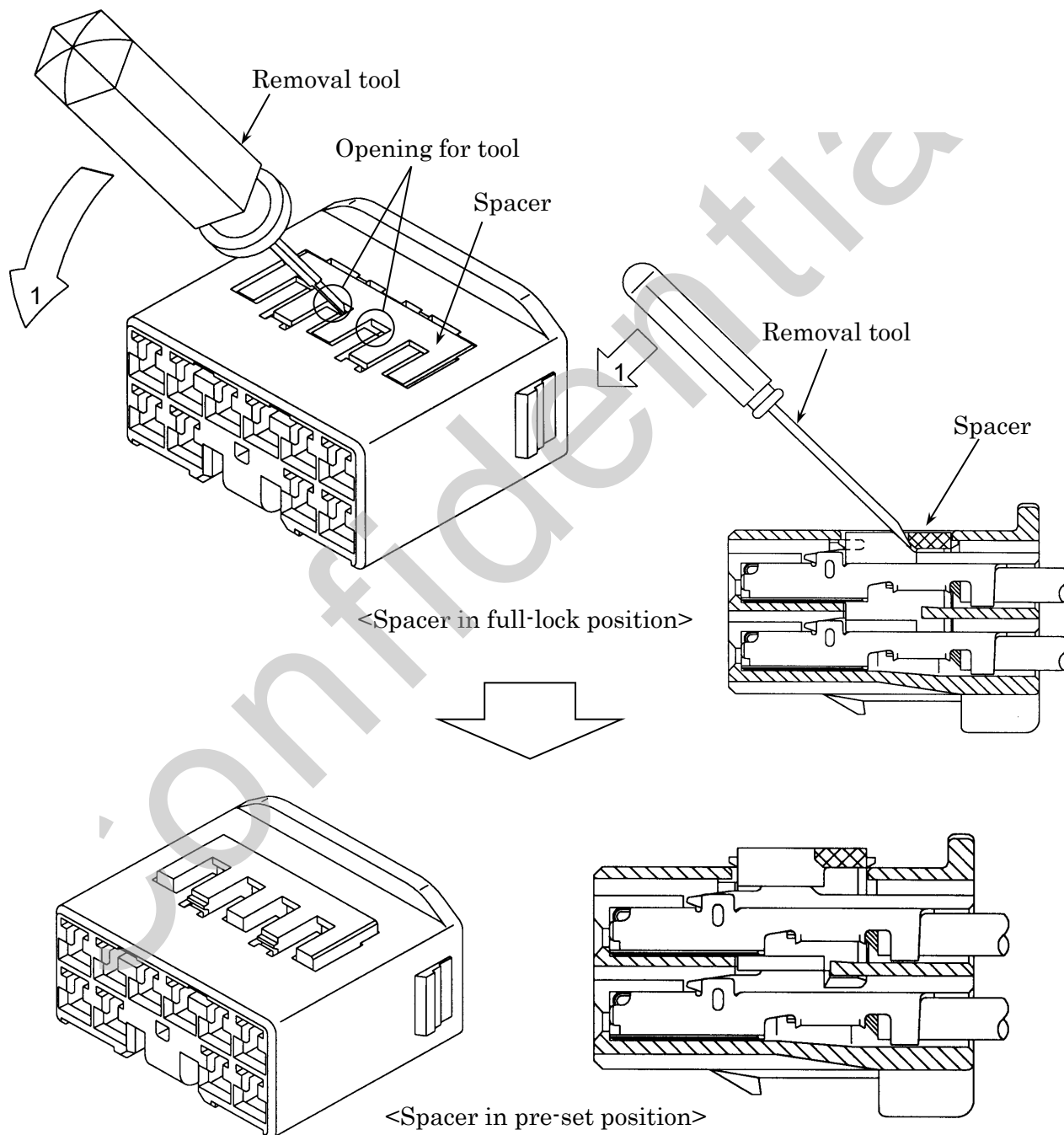


## &lt;Precautions&gt;

- Care should be taken not to deform the parts.  
Replace the spacer in case it is damaged and deformed such that its functioning is affected.

### 6-3. Release of female spacer from full-lock position

- 1) As shown below, insert the tool (refer to 6-1) in the opening for the spacer.
- 2) Tilt the tool in the direction of '1' lightly so that the spacer is removed to the pre-set position. Do not tilt the tool more than necessary otherwise the pre-set locking features will be damaged.
- 3) Confirm that the spacer is in the pre-set position.



#### <Precautions>

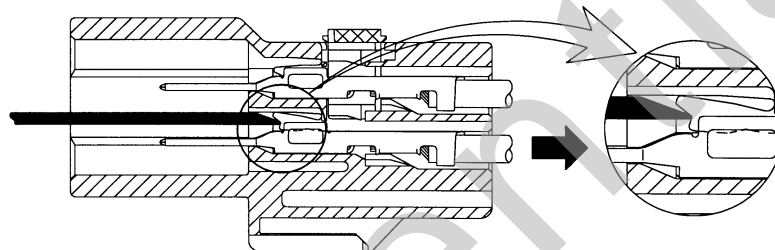
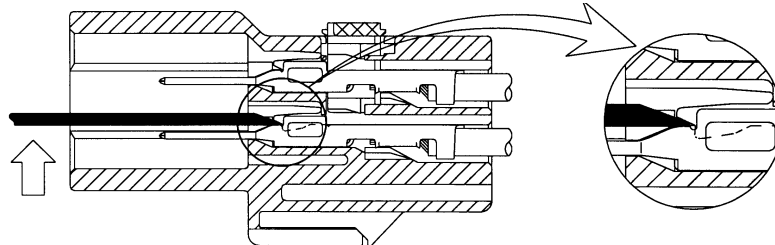
- Care should be taken not to deform the parts.  
Replace the spacer in case it is damaged and deformed such that its functioning is affected.



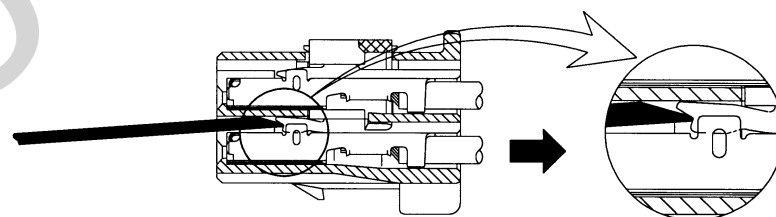
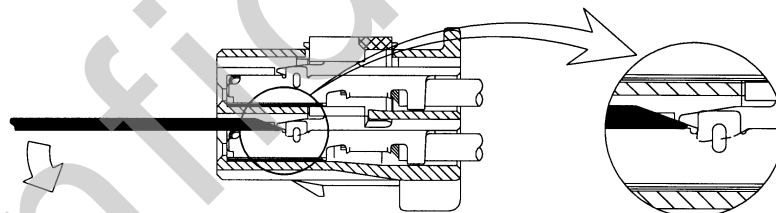
#### 6-4. Removal of male/female terminal

- 1) Insert the removal tool (refer to 6-1) straight in the space between the housing lance key and the terminal as the illustration below to release the lance lock.
- 2) Pull the wire gently in the direction of the black arrow to remove the terminal from cavity.

Male



Female



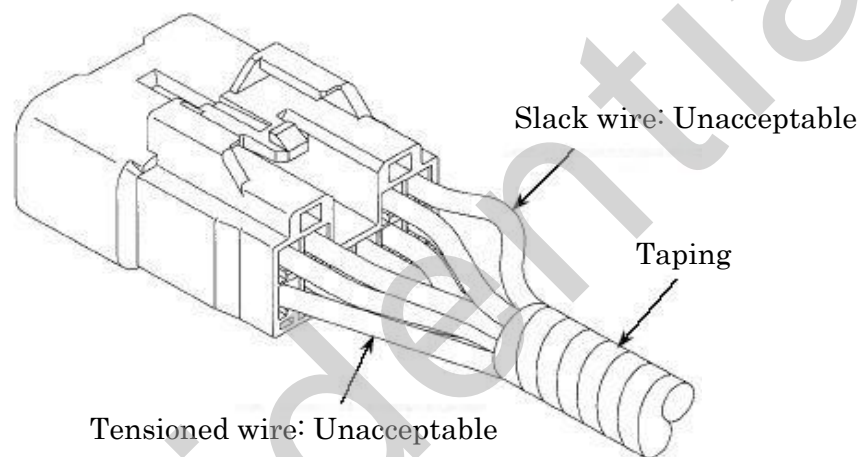
#### <Precautions>

- Terminal removal operation should be done by a fully trained operator who can follow the instructions provided in this manual.  
An untrained or inexperienced operator may cause the terminal or connector damage.
- When the terminal cannot be removed easily, repeat the above operation for the terminal removal from the beginning.
- Insert the removal tool straight, and do not push too much in order to prevent the lance from being damaged.
- Care shall be taken not to deform or damage the components.  
Replace any damaged or deformed parts with new ones.

## 7. Assembly of wiring harness

### 7-1. Precautions for assembly of wiring harness

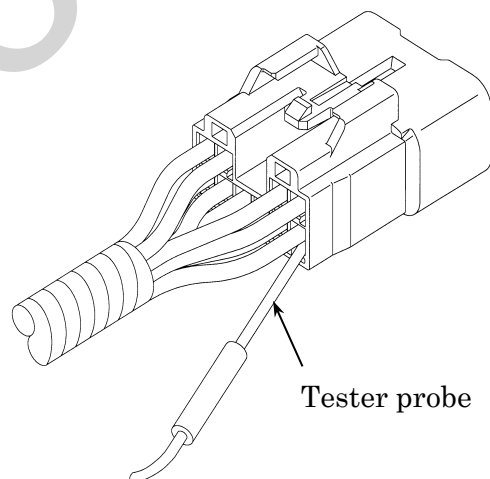
- 1) If ultrasonic wave is used to make connections, confirm that the surrounding parts will not receive any negative effects from the processing.
- 2) Apply tape in such a manner that every individual wire is subjected to an equal amount of tensile force. Concentration of tensile force on a particular wire may cause harmful effects such as inadvertent coming off of a terminal.
- 3) Do not deform component parts.  
Replace any deformed parts with new ones.



### 7-2. Precautions for continuity inspection

If a tester probe is used for electric continuity or voltage check, make sure to insert it from the wire side as shown below.

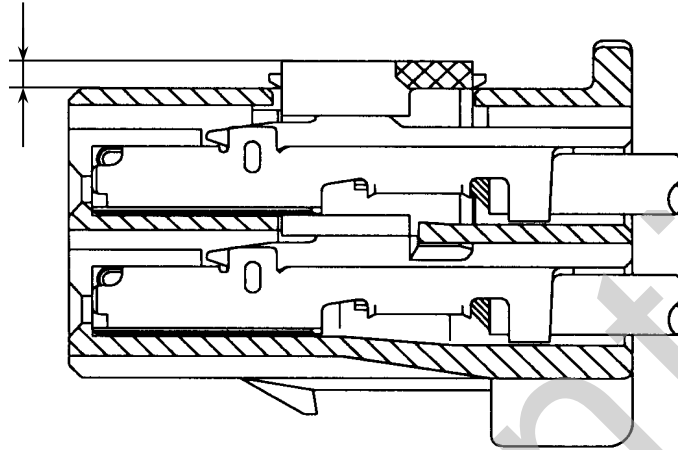
If it is not possible, use the same type of connector instead to check the continuity / voltage.



### 7-3. Detection of terminal incomplete insertion

Use a fixture to determine the exposed length of the spacer (see below) in order to check for a half-inserted terminal. Do not rely on the visual examination.

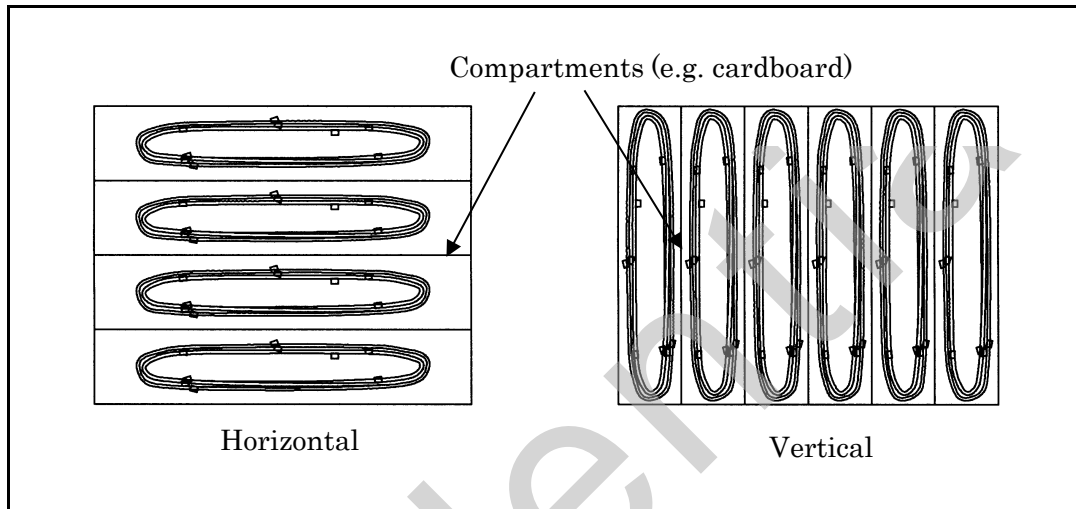
Exposed length



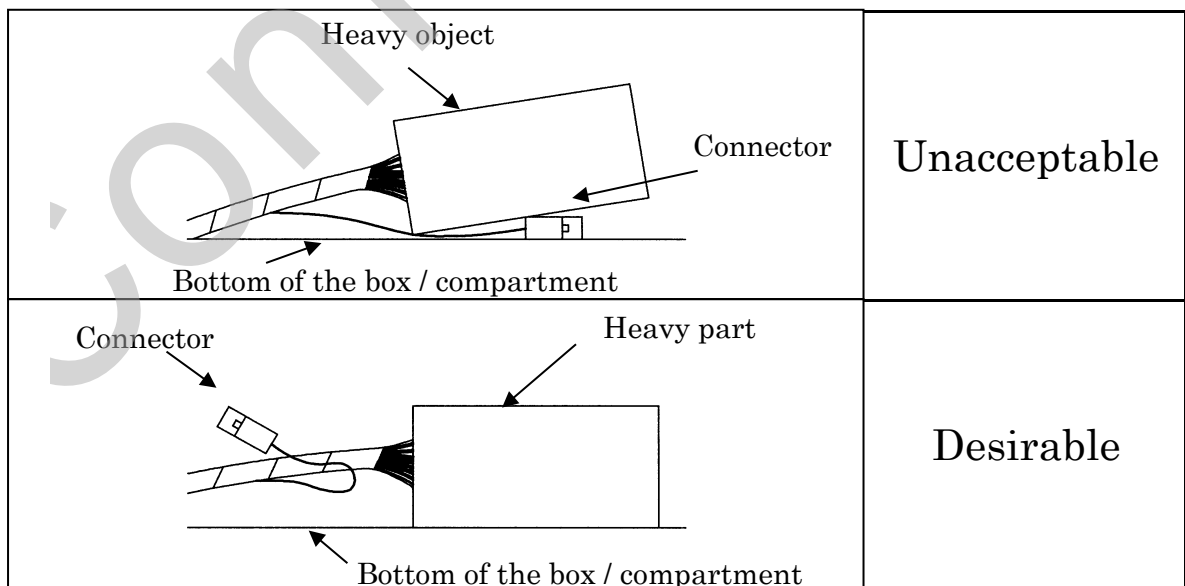
8. Precautions for packaging of wiring harness

As with many plastic parts, a connector can be deformed or damaged if external force is applied to the connector during transportation or storage. To prevent deformation or damage, take the following cares.

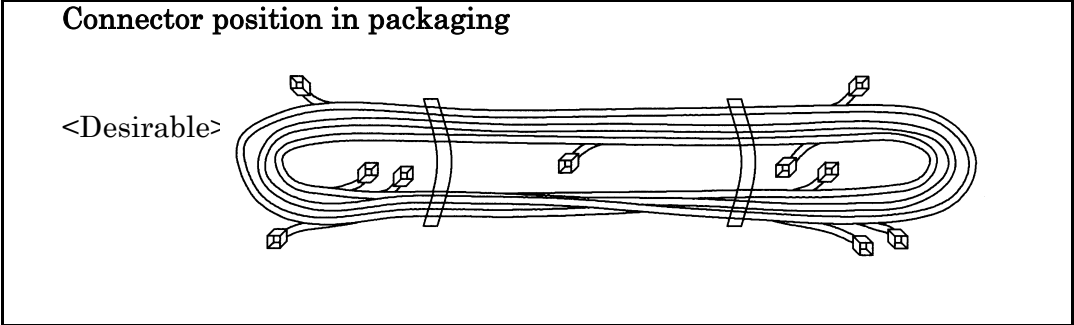
- 1) When packing the wiring harness in layers, the load of each wiring harness may deform or damage connector. Use cardboard compartment (horizontally & vertically) and internal supports as shown below, to distribute weights equally to prevent connector from being deformed or damaged.



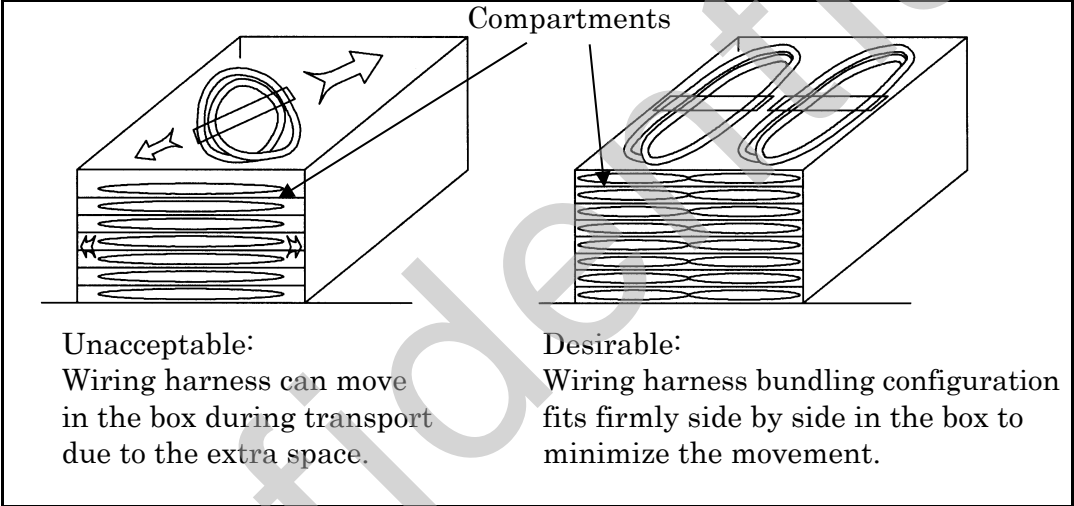
- 2) Any heavy or bulky items such as a junction block, relay box, protector and bracket must be placed on the bottom of the compartment to prevent weight of such items from being applied to the connector as shown below.



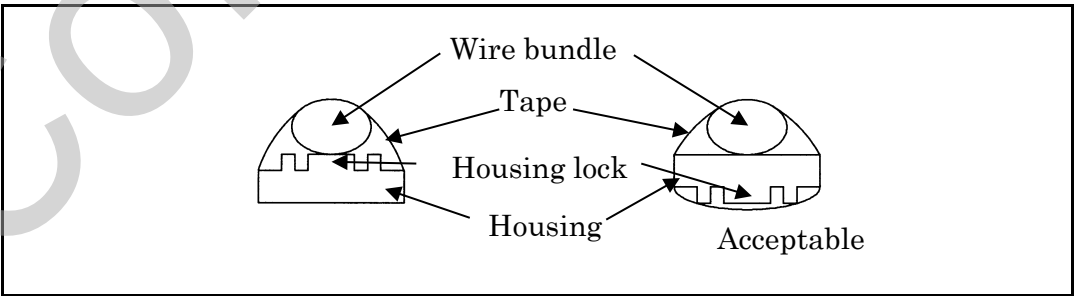
3) The connector must be positioned outside or in the center of the wiring harness bundle to prevent the weight of the wiring harness from being applied to the connector.



4) Wiring harness bundle size must fit the box to prevent it from moving during transportation or storage.



5) If the connector housing is taped on the wiring harness bundle, assure that the housing lock and/or other flexible members of connector are positioned away from the wiring harness bundle.



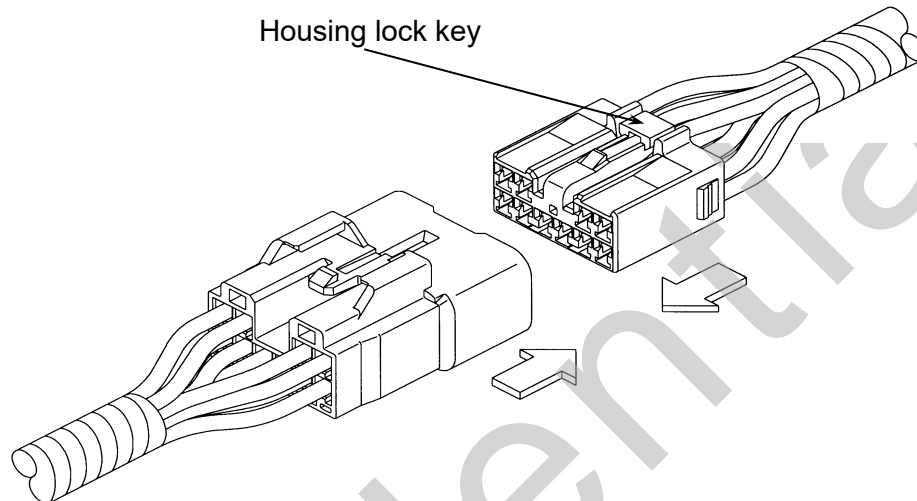
6) Extra care must be taken when to take out the wiring harnesses from the box because they may have been entangled with each other in the box.

7) After transportation or storage, connector must be checked to confirm that they are free of deformation or damage.

## 9. Connector mating/unmating

### 9-1. Connector mating

- 1) Confirm that the spacer is locked in the full-lock position.
- 2) Mate the connector in the directions shown below until the clicking sound is heard.
- 3) Pull the connector lightly to confirm that they are securely engaged and locked.

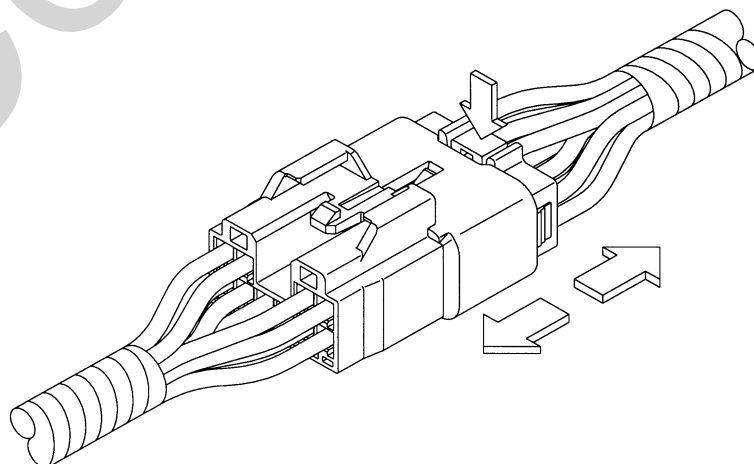


#### <Precautions>

- Do not mate connector with angle.
- Do not mate connector while pushing the housing lock key.

### 9-2. Connector unmating

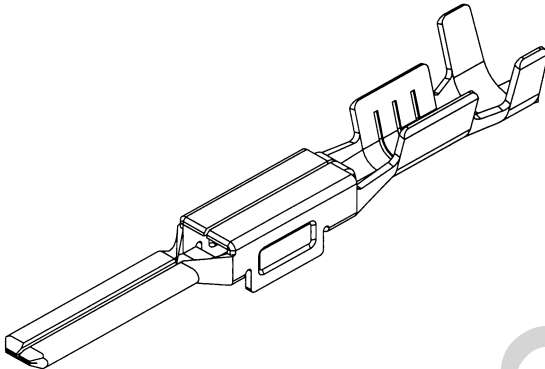
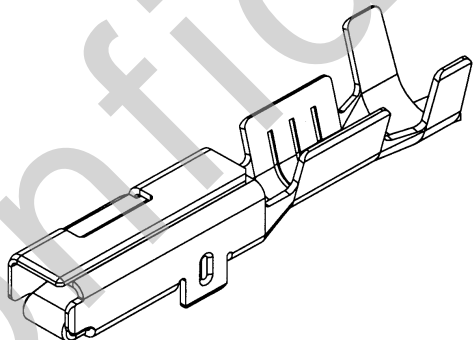
- 1) Press the housing lock key to release the lock.
- 2) While pressing down the housing lock key, pull the connector halves in the direction of arrows as shown below to unmate them.

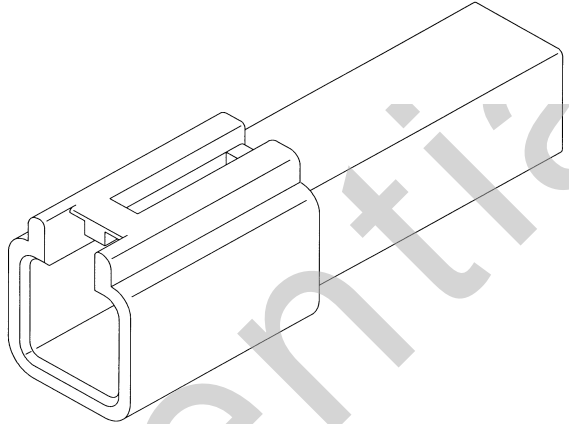
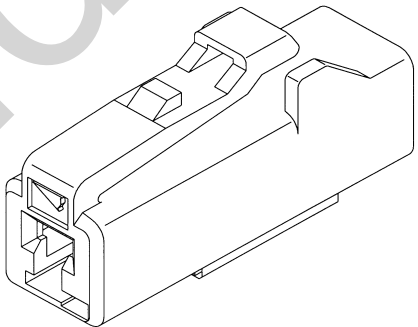


#### <Precaution>

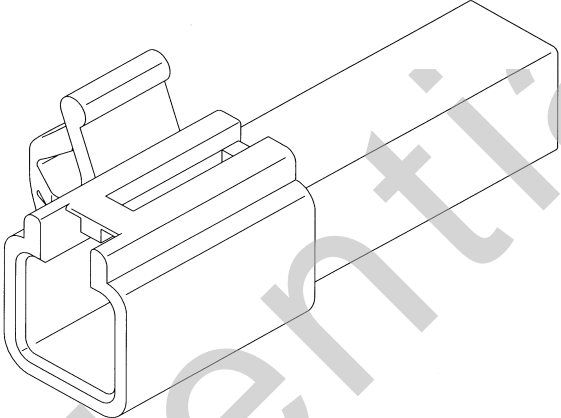
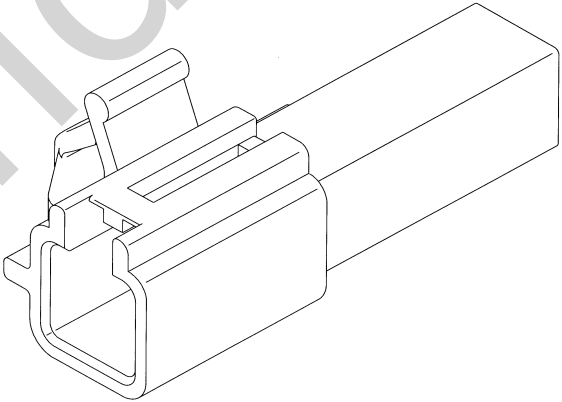
- Do not pull the wires to unmate the connector.

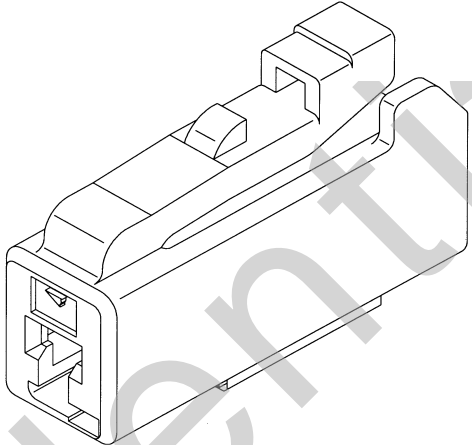
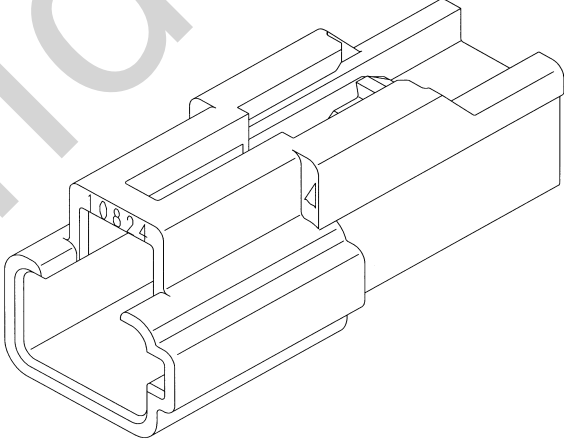
© Component parts list

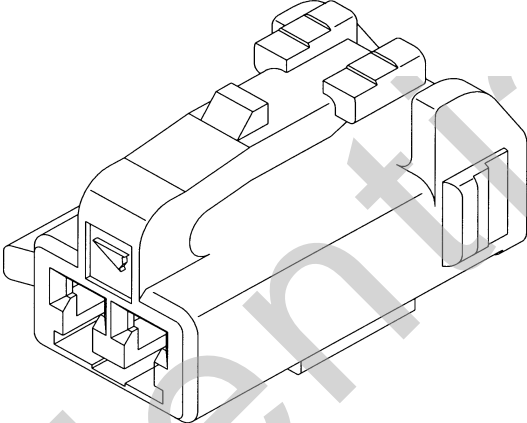
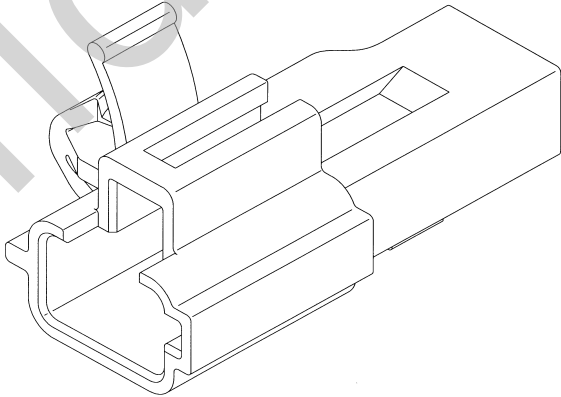
YAZAKI P/N	YAZAKI Part Name	Appearance	Applicable wire size	Plating
7114-4020	2.3II TERMINAL MALE		AVSS 0.3 ~ AVS 0.5	TIN PLATING
7114-4021	↓		AVS 0.5 ~ AVS 1.25	
7114-4022	↓		AVSS 2.0	
7114-1447	↓		AVS 0.5 ~ AVS 1.25	GOLD PLATING
7114-4020-08	↓		CAVS 0.3 ~ CAVS 0.5	
7114-4052-08	↓		AVSS 0.3 ~ AVS 0.5	
7114-4053-08	↓		AVS 0.5 ~ AVS 1.25	
7116-4020	2.3II TERMINAL FEMALE		AVSS 0.3 ~ AVS 0.5	TIN PLATING
7116-4021	↓		AVS 0.5 ~ AVS 1.25	
7116-4022	↓		AVSS 2.0	
7116-1460	↓		AVS 0.5 ~ AVS 1.25	
7116-4624-02	↓		CHFUS 0.22 ~ HFSS 0.35	
7116-4626-02	↓		CHFS1.5 ~ AVSS 2.0	
7116-5041-02	2.3II TERMINAL FEMALE (LOW INSERTION FORCE TYPE)		AVSS 0.3 ~ AVS 0.5	
7116-5042-02	↓		AVS 0.5 ~ AVS 1.25	
7116-5043-02	↓		AVSS 2.0	
7116-5035-02	↓		CHFUS 0.22 ~ HFSS 0.35	
7116-5036-02	↓		CHFS1.5 ~ AVSS 2.0	
7116-4020-08	2.3II TERMINAL FEMALE		CAVS 0.3 ~ CAVS 0.5	GOLD PLATING
7116-4052-08	2.3II TERMINAL FEMALE		AVSS 0.3 ~ AVS 0.5	
7116-4053-08	2.3II TERMINAL FEMALE		AVS 0.5 ~ AVS 1.25	TIN PLATING
7116-5098-02	2.3II TERMINAL FEMALE (LOW INSERTION FORCE TYPE)	CHFUS 0.13		

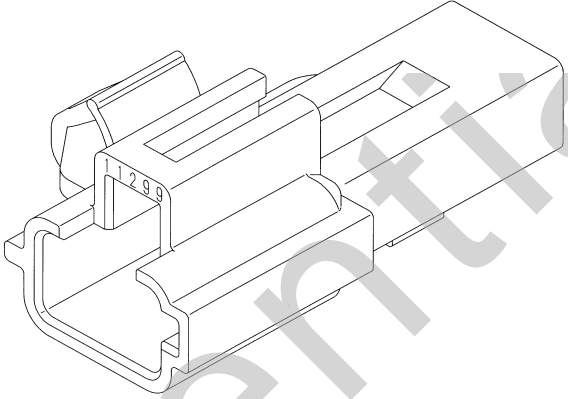
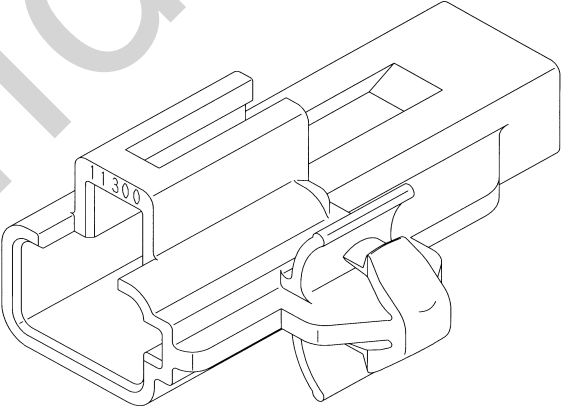
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7282-1010 (2.3II 1P CONNECTOR SUB ASSEMBLY MALE)</p>		<p>HOUSING : 7182-1010 SPACER : 7157-4088</p>
<p>7283-1010 (2.3II 1P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p>HOUSING : 7183-1010 SPACER : 7157-4089</p>

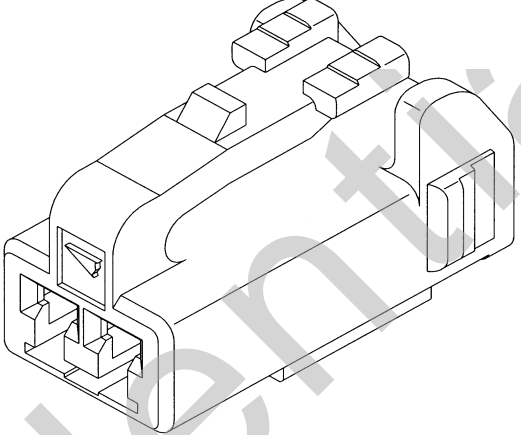
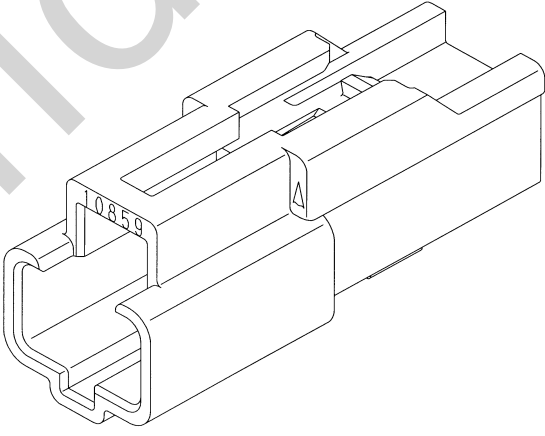


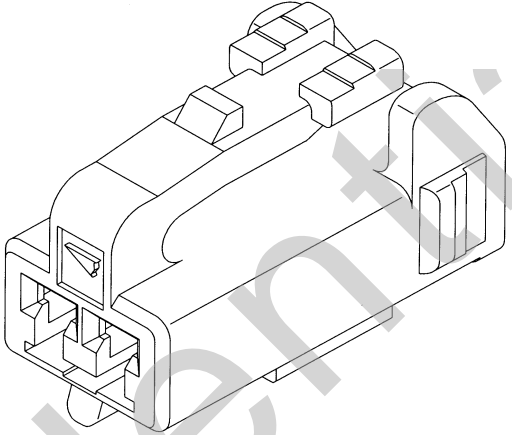
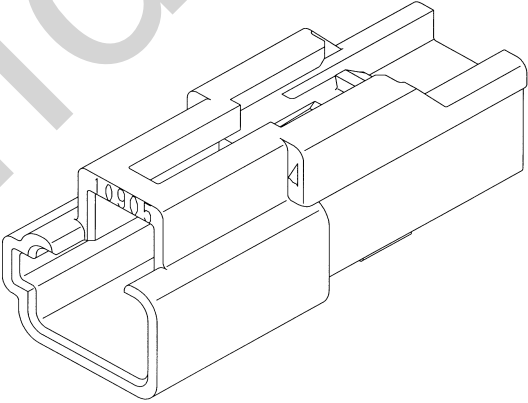
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7282-1012 (2.3II 1P CONNECTOR SUB ASSEMBLY MALE (CLAMP TYPE))</p>		<p>HOUSING : 7182-1012 SPACER : 7157-4088</p>
<p>7282-1014 (2.3II 1P CONNECTOR SUB ASSEMBLY MALE (CLAMP TYPE))</p>		<p>HOUSING : 7182-1014 SPACER : 7157-4089</p>

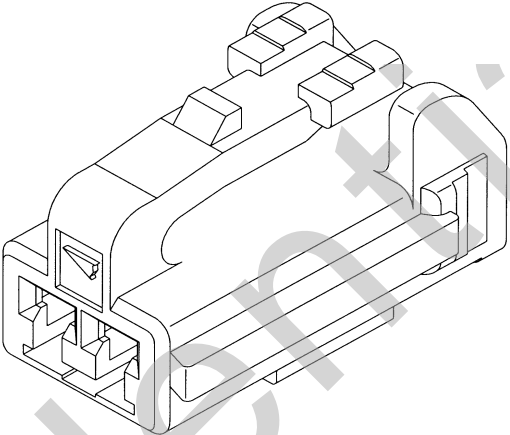
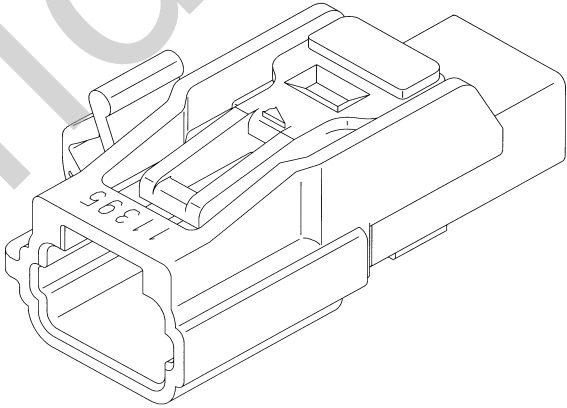
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="338 522 724 623">7283-1011 (2.3II 1P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1731 539 2041 606">HOUSING : 7183-1011 SPACER : 7157-4089</p>
<p data-bbox="357 1060 705 1160">7282-1020 (2.3II 2P CONNECTOR SUB ASSEMBLY MALE)</p>		<p data-bbox="1731 1076 2041 1144">HOUSING : 7182-1020 SPACER : 7157-4091</p>

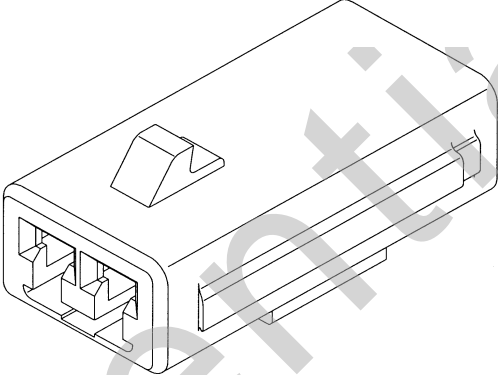
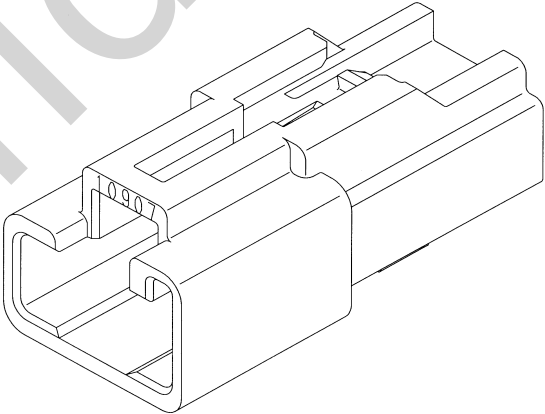
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="338 522 724 623">7283-1020 (2.3II 2P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1735 539 2041 606">HOUSING : 7183-1020 SPACER : 7157-4092</p>
<p data-bbox="244 1060 818 1160">7282-1022 (2.3II 2P CONNECTOR SUB ASSEMBLY MALE (CLAMP TYPE))</p>		<p data-bbox="1735 1076 2041 1144">HOUSING : 7182-1022 SPACER : 7157-1091</p>

YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7282-8823 (2.3II 2P CONNECTOR SUB ASSEMBLY MALE (CLAMP TYPE))</p>		<p>HOUSING : 7182-8823 SPACER : 7157-4091</p>
<p>7282-8824 (2.3II 2P CONNECTOR SUB ASSEMBLY MALE (CLAMP TYPE))</p>		<p>HOUSING : 7182-8824 SPACER : 7157-4091</p>

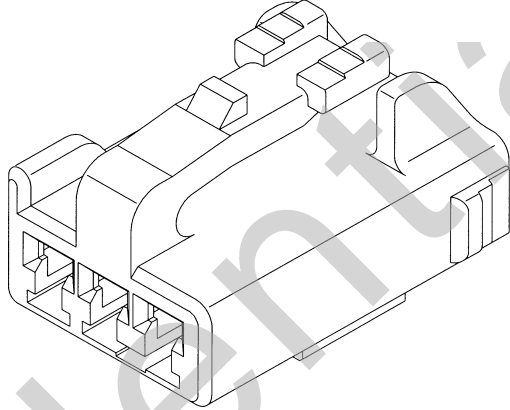
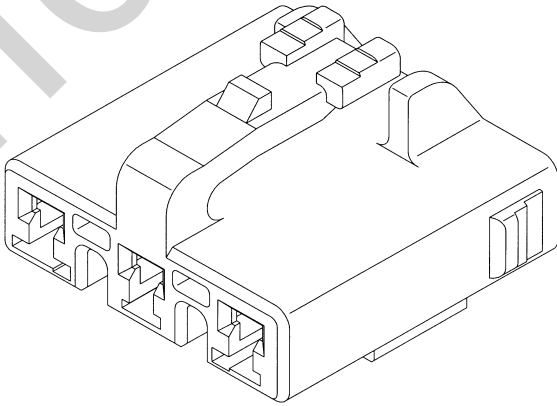
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7283-1021 (2.3II 2P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p>HOUSING : 7183-1021 SPACER : 7157-4090</p>
<p>7282-1027 (2.3II 2P CONNECTOR SUB ASSEMBLY MALE)</p>		<p>HOUSING : 7182-1027 SPACER : 7157-4091</p>

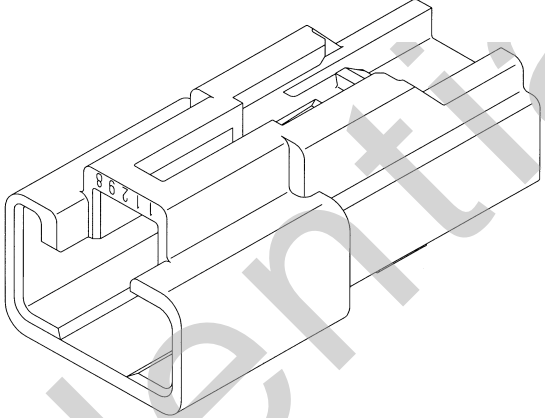
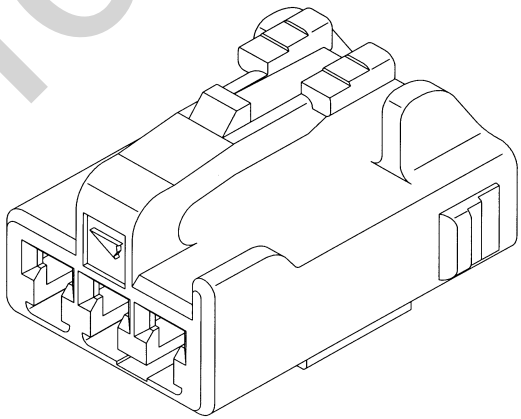
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="338 522 724 623">7283-1027 (2.3II 2P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1731 539 2041 606">HOUSING : 7183-1027 SPACER : 7157-4092</p>
<p data-bbox="357 1060 705 1160">7282-1028 (2.3II 2P CONNECTOR SUB ASSEMBLY MALE)</p>		<p data-bbox="1731 1076 2041 1144">HOUSING : 7182-1028 SPACER : 7157-4091</p>

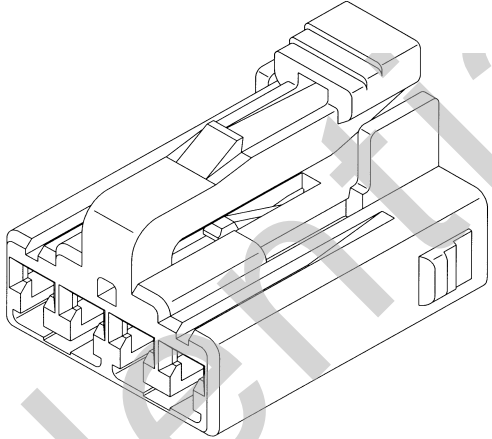
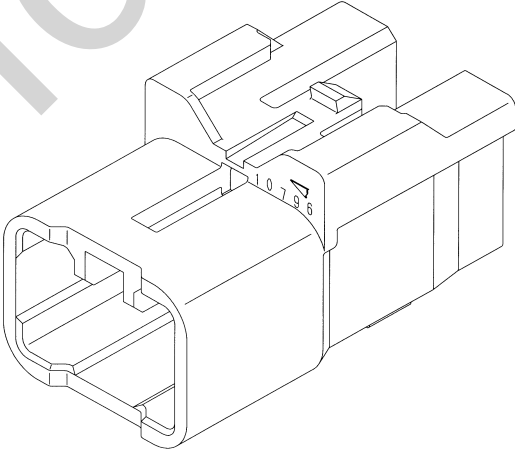
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="338 522 724 623">7283-1028 (2.3II 2P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1731 539 2041 606">HOUSING : 7183-1028 SPACER : 7157-4092</p>
<p data-bbox="357 1060 705 1160">7282-8922 (2.3II 2P CONNECTOR SUB ASSEMBLY MALE)</p>		<p data-bbox="1731 1076 2041 1144">HOUSING : 7182-8922 SPACER : 7157-4091</p>

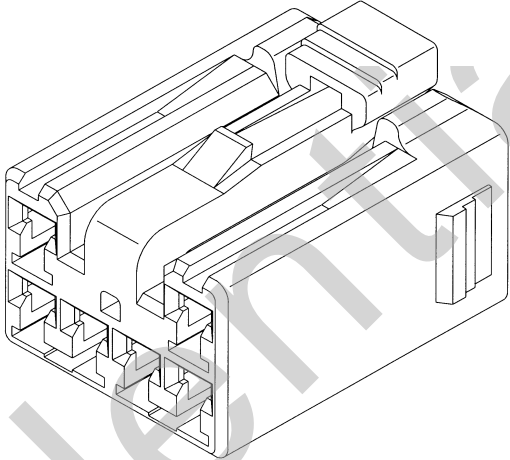
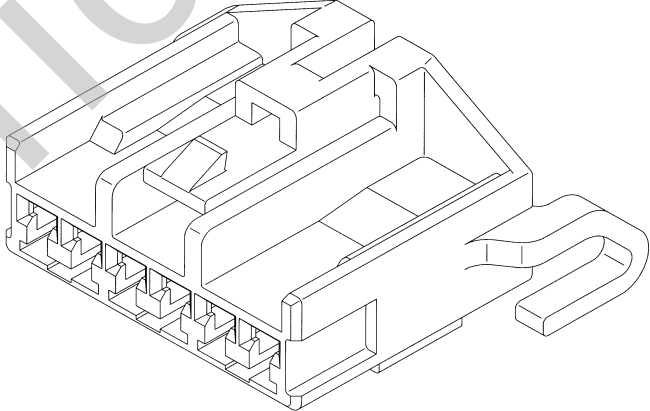
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="338 522 724 623">7283-8922 (2.3II 2P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1731 539 2041 606">HOUSING : 7183-8922 SPACER : 7157-4092</p>
<p data-bbox="357 1060 705 1160">7282-1030 (2.3II 3P CONNECTOR SUB ASSEMBLY MALE)</p>		<p data-bbox="1731 1076 2041 1144">HOUSING : 7182-1030 SPACER : 7157-4095</p>

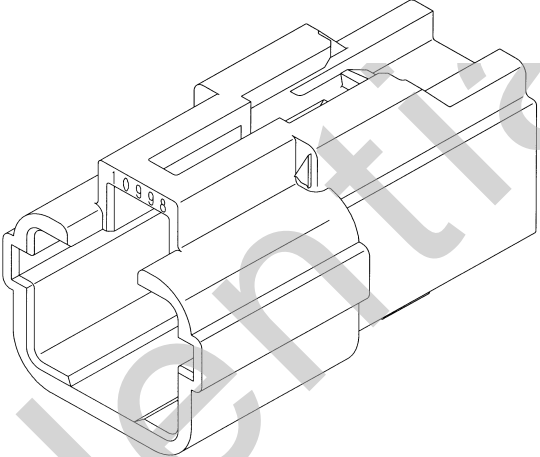
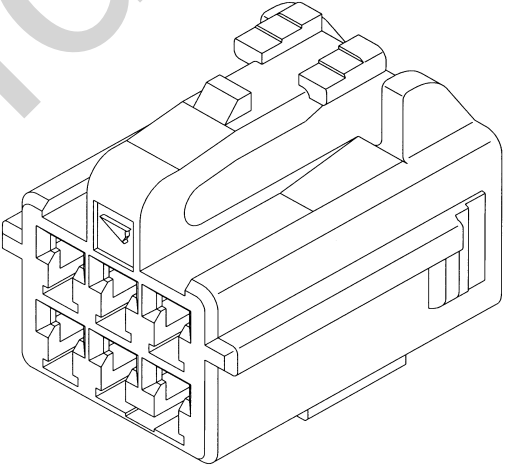


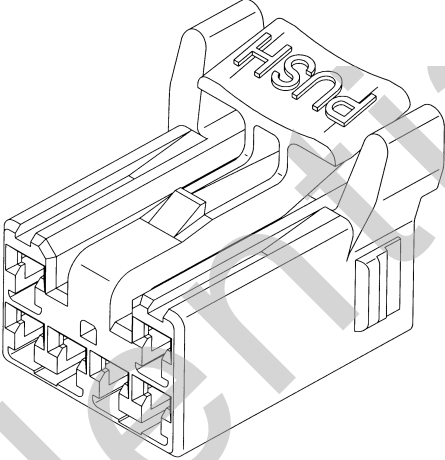
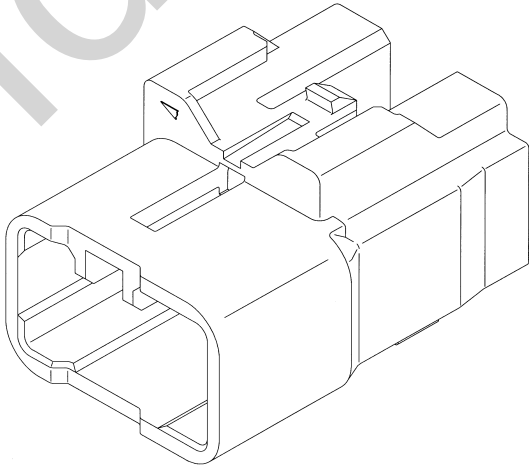
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="336 521 729 621">7283-1030 (2.3II 3P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 537 2059 602">HOUSING : 7183-1030 SPACER : 7157-4096</p>
<p data-bbox="336 1060 729 1161">7283-1132 (2.3II 3P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 1076 2059 1141">HOUSING : 7183-1132 SPACER : 7157-4351</p>

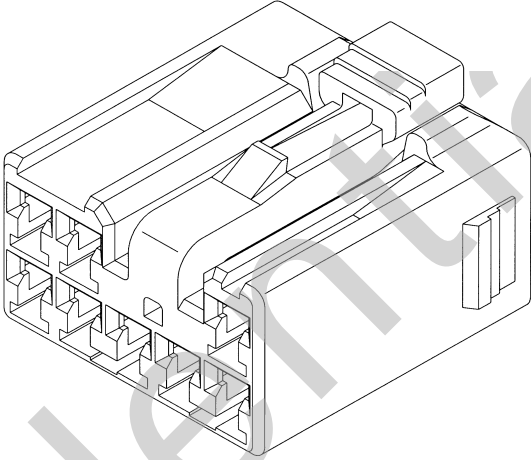
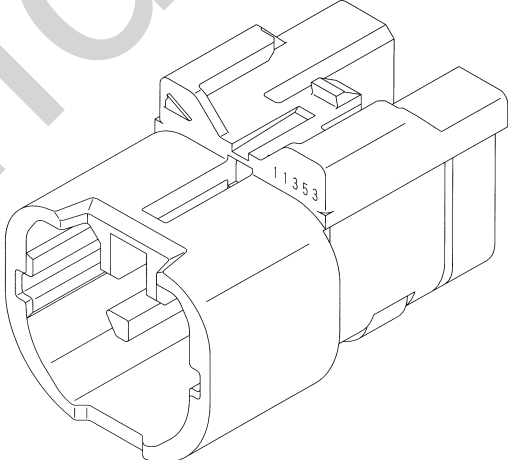
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7282-1138 (2.3II 3P CONNECTOR SUB ASSEMBLY MALE)</p>		<p>HOUSING : 7182-1138 SPACER : 7157-4095</p>
<p>7283-1138 (2.3II 3P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p>HOUSING : 7183-1138 SPACER : 7157-4096</p>

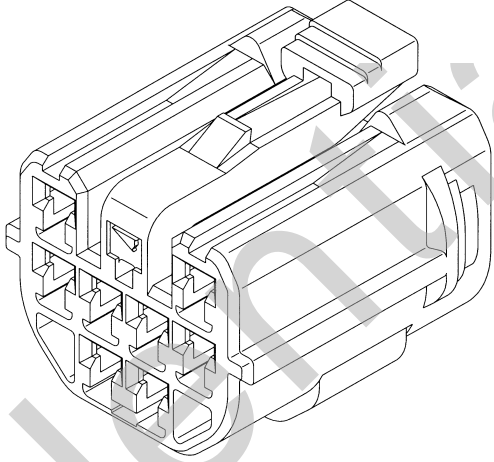
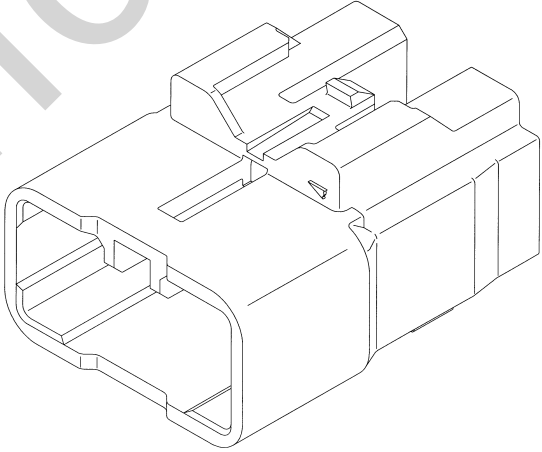
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="336 521 729 621">7283-1046 (2.3II 4P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 537 2059 602">HOUSING : 7183-1046 SPACER : 7157-4366</p>
<p data-bbox="357 1060 708 1161">7282-1060 (2.3II 6P CONNECTOR SUB ASSEMBLY MALE)</p>		<p data-bbox="1740 1076 2059 1141">HOUSING : 7182-1060 SPACER : 7157-4020</p>

YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="336 521 729 621">7283-1060 (2.3II 6P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 537 2059 602">HOUSING : 7183-1060 SPACER : 7157-4021</p>
<p data-bbox="336 1060 729 1161">7283-1062 (2.3II 6P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 1076 2059 1141">HOUSING : 7183-1062 SPACER : 7157-4098</p>

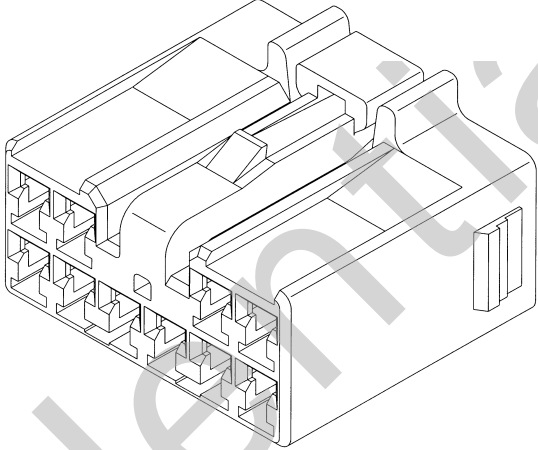
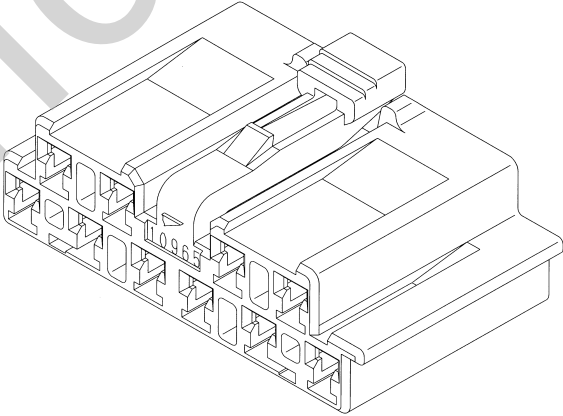
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="357 521 708 618">7282-1068 (2.3II 6P CONNECTOR SUB ASSEMBLY MALE)</p>		<p data-bbox="1740 537 2059 602">HOUSING : 7182-1068 SPACER : 7157-4341</p>
<p data-bbox="339 1057 727 1154">7283-1068 (2.3II 6P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 1073 2059 1138">HOUSING : 7183-1068 SPACER : 7157-4342</p>

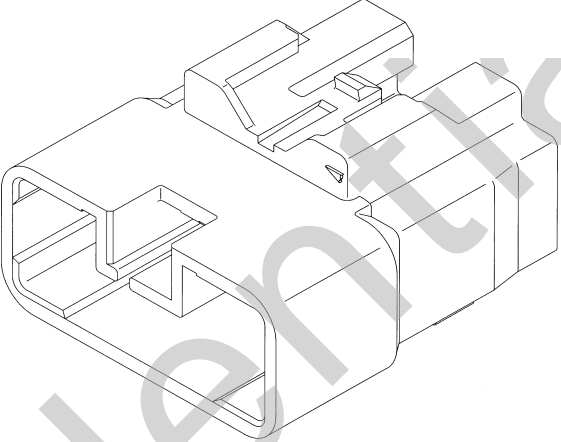
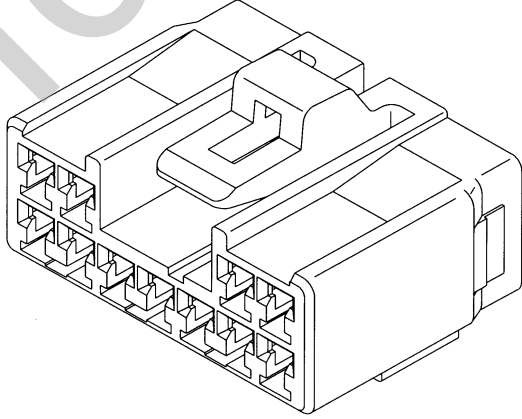
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7283-1265 (2.3II 6P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p>HOUSING : 7183-1265 SPACER : 7157-4021</p>
<p>7282-1080 (2.3II 8P CONNECTOR SUB ASSEMBLY MALE)</p>		<p>HOUSING : 7182-1080 SPACER : 7157-4022</p>

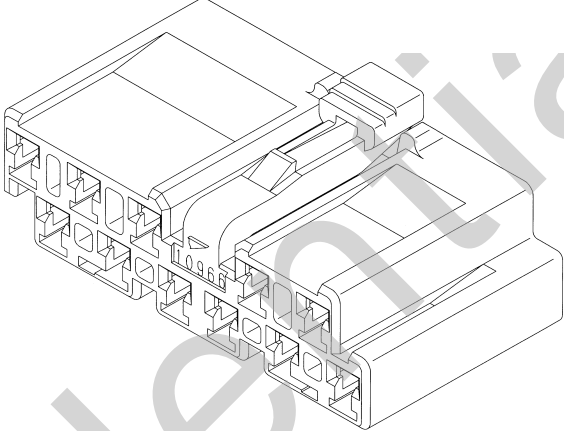
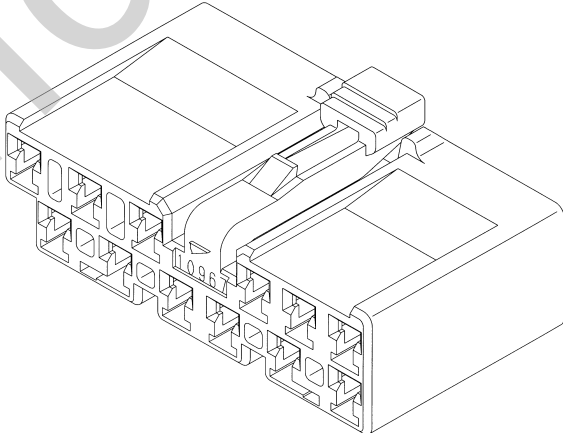
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="336 521 729 621">7283-1080 (2.3II 8P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 537 2059 602">HOUSING : 7183-1080 SPACER : 7157-4023</p>
<p data-bbox="357 1060 708 1161">7282-1284 (2.3II 8P CONNECTOR SUB ASSEMBLY MALE)</p>		<p data-bbox="1740 1076 2059 1141">HOUSING : 7182-1284 SPACER : 7157-4030</p>

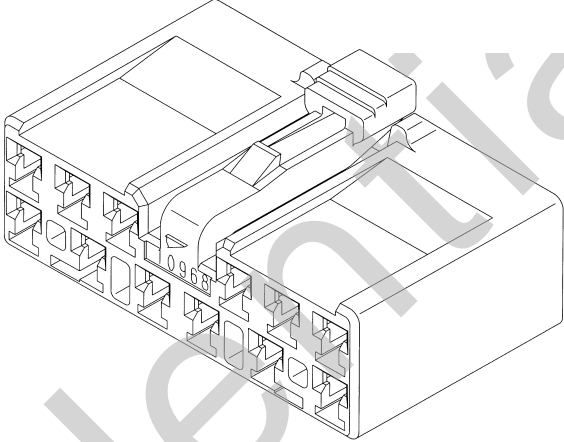
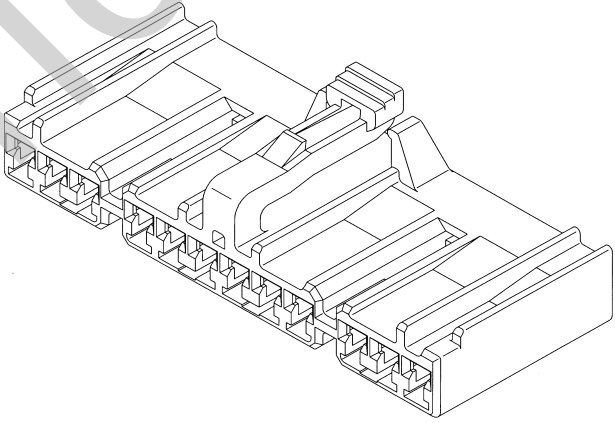
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="336 521 729 621">7283-1284 (2.3II 8P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 537 2059 602">HOUSING : 7183-1284 SPACER : 7157-4031</p>
<p data-bbox="357 1060 708 1161">7282-1100 (2.3II 10P CONNECTOR SUB ASSEMBLY MALE)</p>		<p data-bbox="1740 1076 2059 1141">HOUSING : 7182-1100 SPACER : 7157-4024</p>

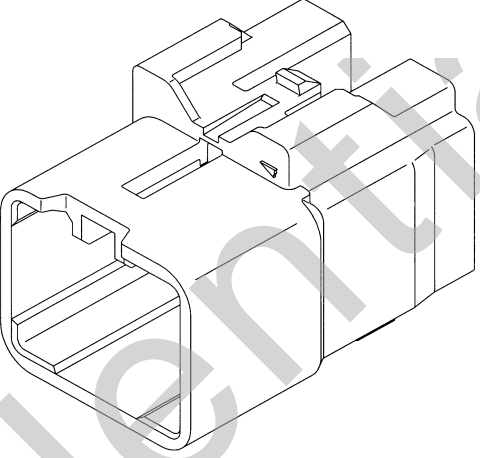
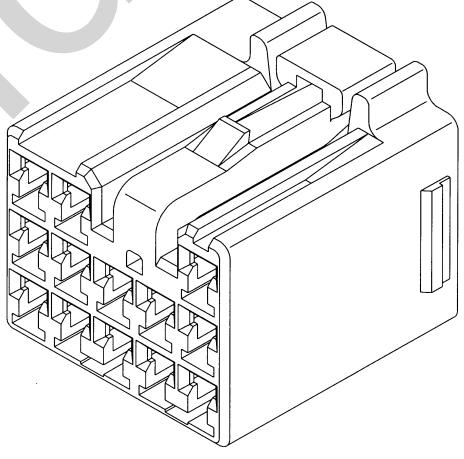


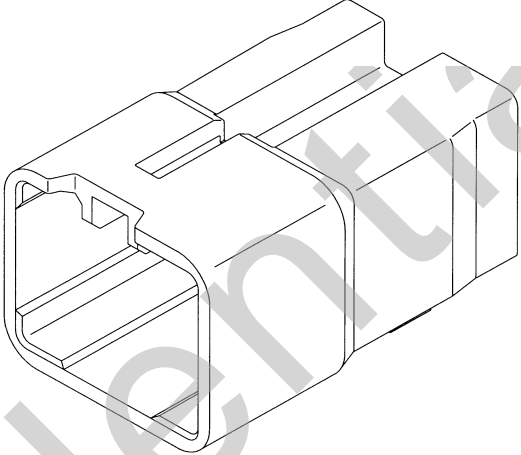
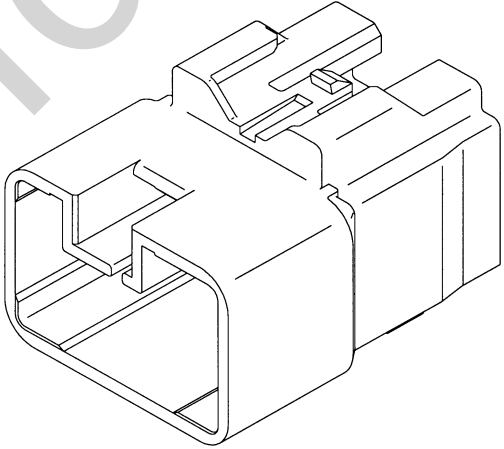
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="336 521 729 621">7283-1100 (2.3II 10P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 537 2059 602">HOUSING : 7183-1100 SPACER : 7157-4025</p>
<p data-bbox="336 1060 729 1161">7283-1101 (2.3II 10P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 1076 2059 1141">HOUSING : 7183-1101 SPACER : 7157-4334</p>

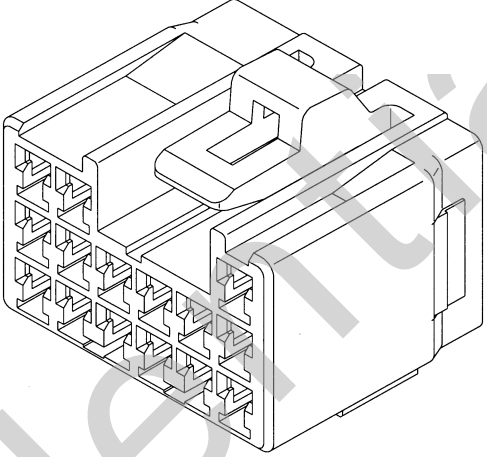
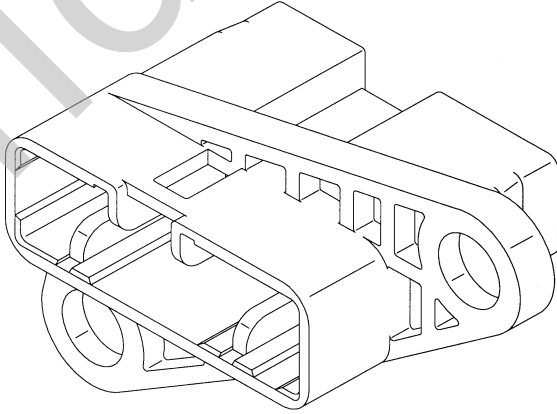
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7282-1110 (2.3II 11P CONNECTOR SUB ASSEMBLY MALE)</p>		<p>HOUSING : 7182-1110 SPACER : 7157-4074</p>
<p>7283-1110 (2.3II 11P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p>HOUSING : 7183-1110 SPACER : 7157-4075</p>

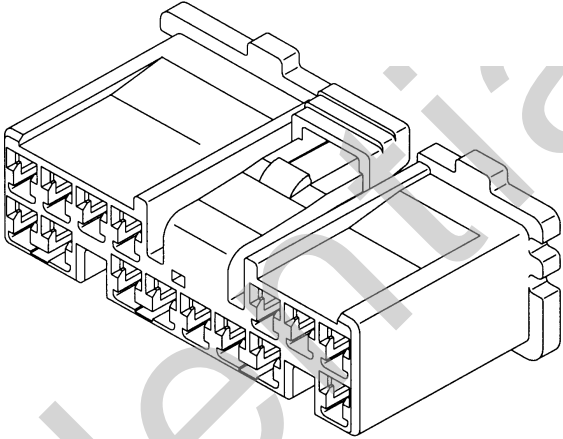
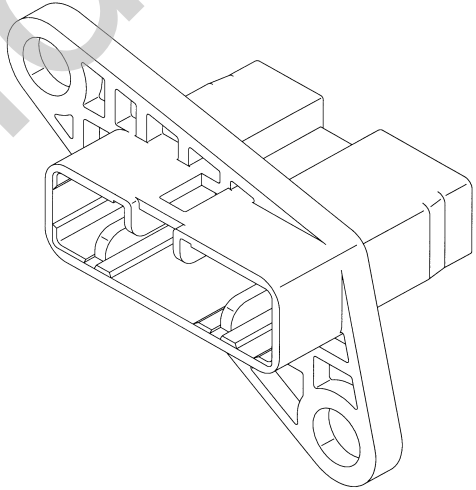
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="336 521 729 621">7283-1111 (2.3II 11P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 537 2054 602">HOUSING : 7183-1111 SPACER : 7157-4335</p>
<p data-bbox="336 1060 729 1161">7283-1121 (2.3II 12P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 1076 2054 1141">HOUSING : 7183-1121 SPACER : 7157-4336</p>

YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="336 521 729 621">7283-1122 (2.3II 12P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 537 2059 602">HOUSING : 7183-1122 SPACER : 7157-4337</p>
<p data-bbox="336 1060 729 1161">7283-1127 (2.3II 12P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 1076 2059 1141">HOUSING : 7183-1127 SPACER : 7157-4354</p>

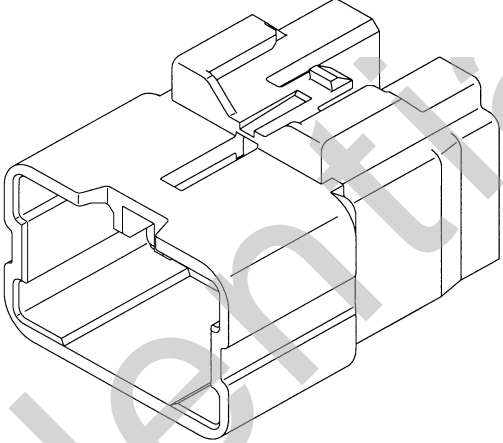
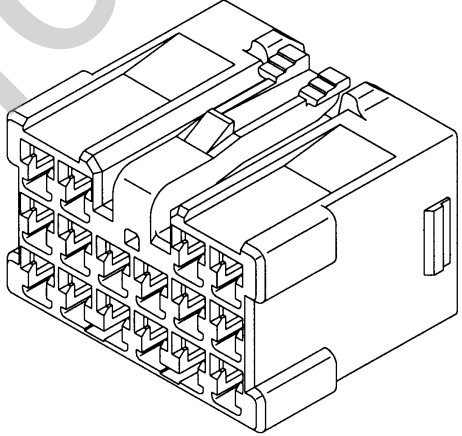
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7282-1130 (2.3II 13P CONNECTOR SUB ASSEMBLY MALE)</p>		<p>HOUSING : 7182-1130 SPACER : 7157-4028</p>
<p>7283-1130 (2.3II 13P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p>HOUSING : 7183-1130 SPACER : 7157-4029</p>

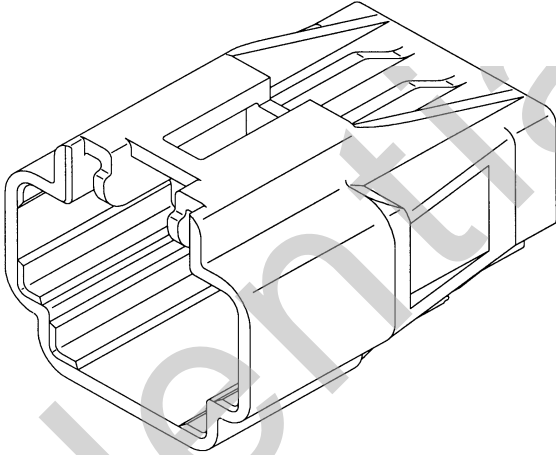
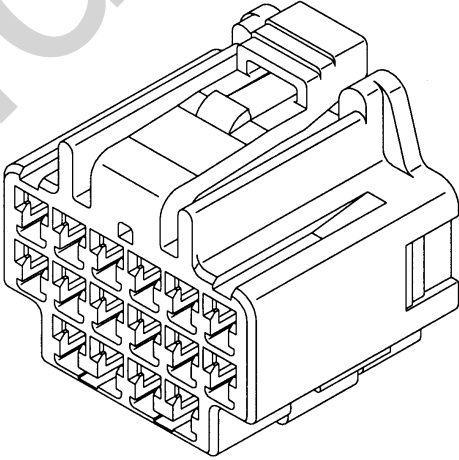
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7282-1530 (2.3II 13P CONNECTOR SUB ASSEMBLY MALE)</p>		<p>HOUSING : 7182-1530 SPACER : 7157-4028</p>
<p>7282-1150 (2.3II 15P CONNECTOR SUB ASSEMBLY MALE)</p>		<p>HOUSING : 7182-1150 SPACER : 7157-4076</p>

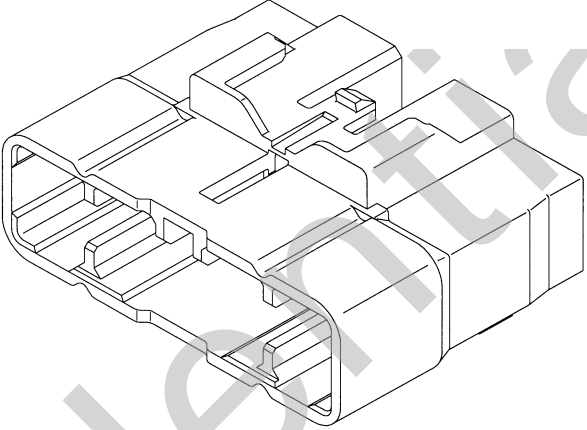
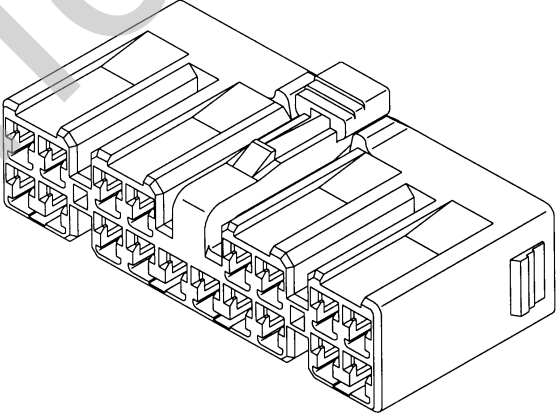
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7283-1150 (2.3II 15P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p>HOUSING : 7183-1150 SPACER : 7157-4077</p>
<p>7282-1152 (2.3II 15P CONNECTOR SUB ASSEMBLY MALE (R-TYPE))</p>		<p>HOUSING : 7182-1152 SPACER : 7157-4520</p>

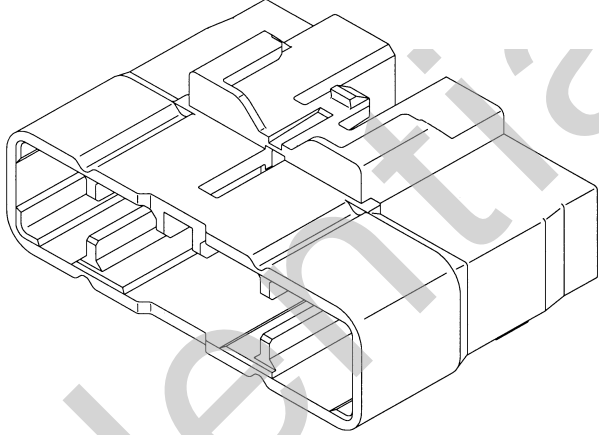
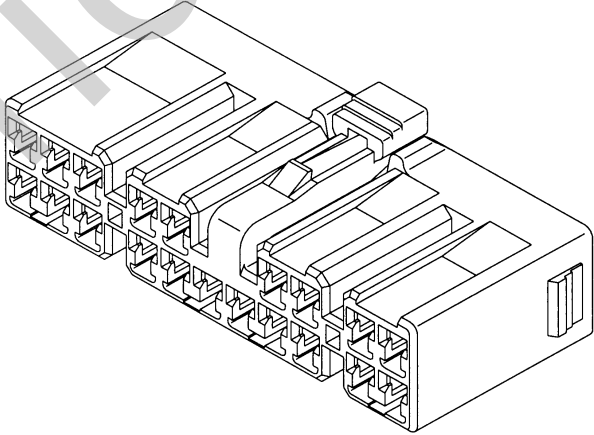
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7283-1152 (2.3II 15P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p>HOUSING : 7183-1152 SPACER : 7157-4521</p>
<p>7282-1153 (2.3II 15P CONNECTOR SUB ASSEMBLY MALE (L-TYPE))</p>		<p>HOUSING : 7182-1153 SPACER : 7157-4520</p>

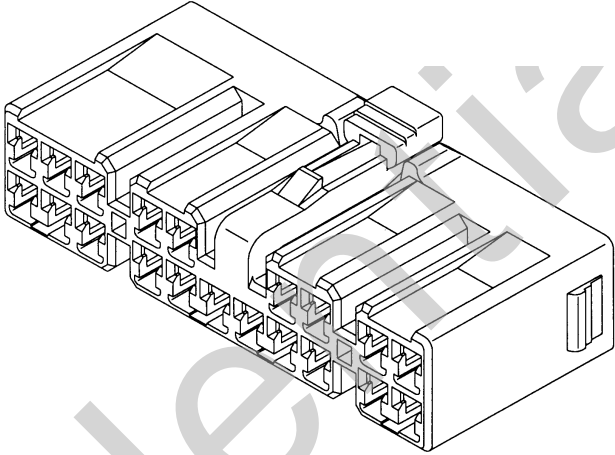
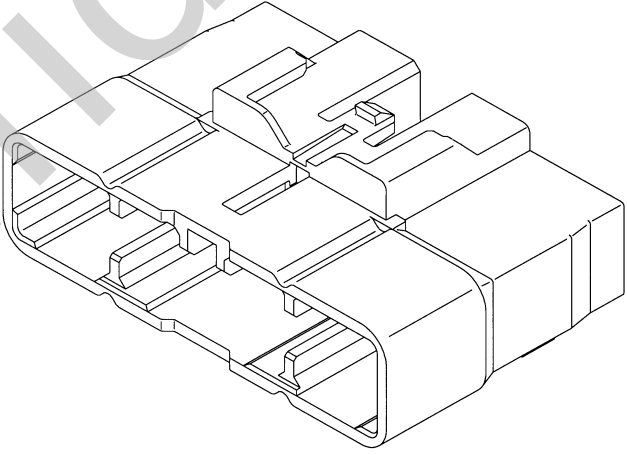


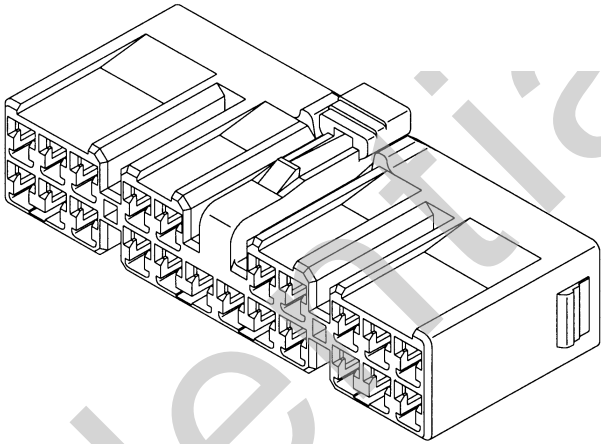
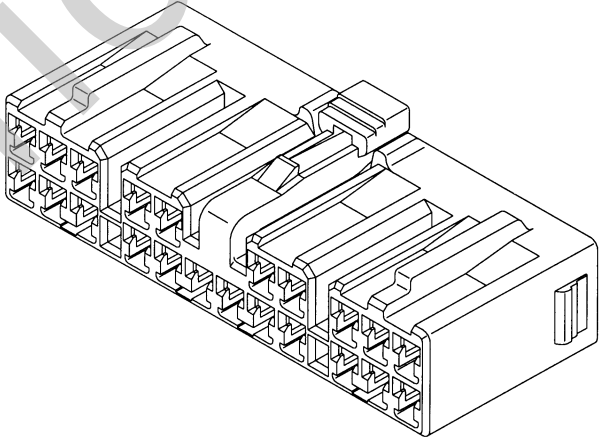
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7282-1160 (2.3II 16P CONNECTOR SUB ASSEMBLY MALE)</p>		<p>HOUSING : 7182-1160 SPACER : 7157-4032</p>
<p>7283-1160 (2.3II 16P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p>HOUSING : 7183-1160 SPACER : 7157-4033</p>

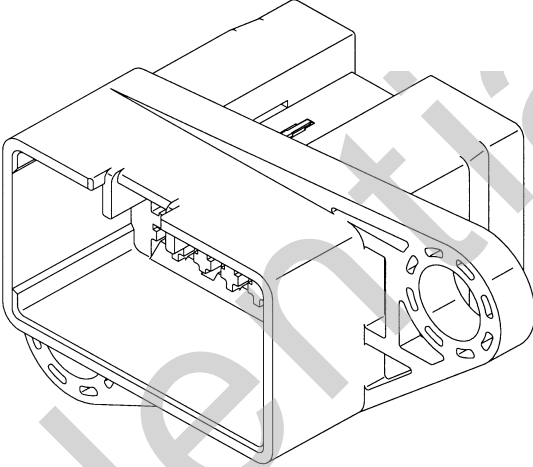
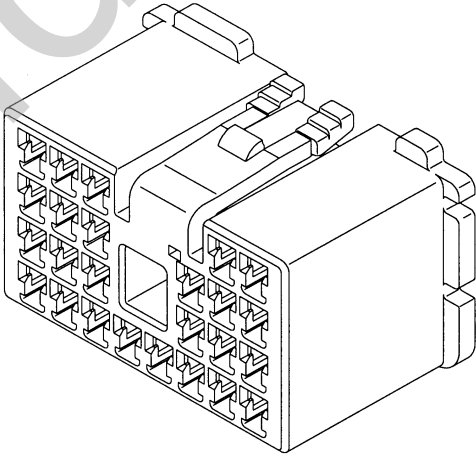
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7282-1167 (2.3II 16P CONNECTOR SUB ASSEMBLY MALE)</p>		<p>HOUSING : 7182-1167 SPACER : 7157-4524</p>
<p>7283-1167 (2.3II 16P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p>HOUSING : 7183-1167 SPACER : 7157-4525</p>

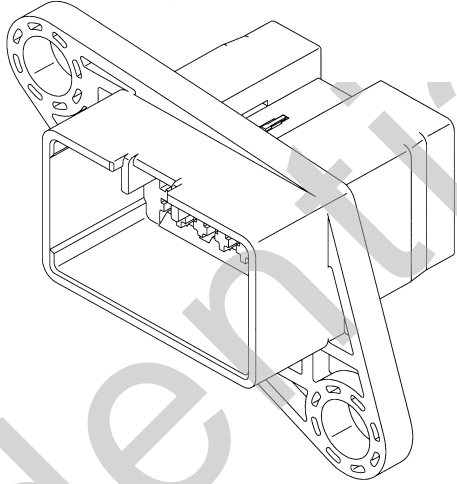
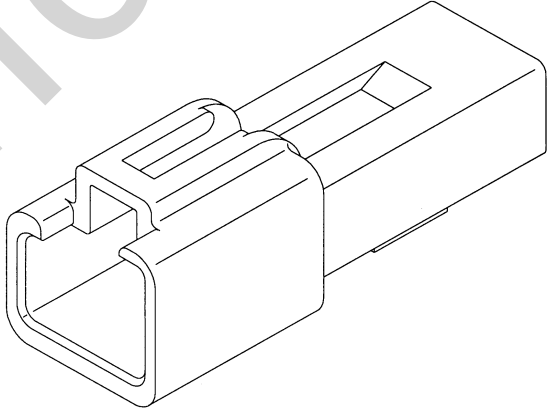
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7282-1180 (2.3II 18P CONNECTOR SUB ASSEMBLY MALE)</p>		<p>HOUSING : 7182-1180 SPACER : 7157-4034</p>
<p>7283-1180 (2.3II 18P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p>HOUSING : 7183-1180 SPACER : 7157-4035</p>

YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7282-1200 (2.3II 20P CONNECTOR SUB ASSEMBLY MALE)</p>		<p>HOUSING : 7182-1200 SPACER : 7157-4036</p>
<p>7283-1200 (2.3II 20P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p>HOUSING : 7183-1200 SPACER : 7157-4037</p>

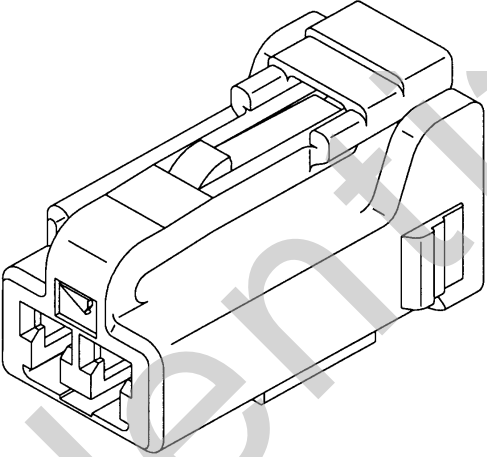
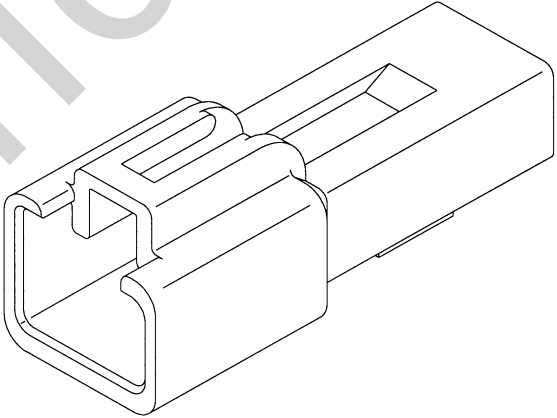
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="336 521 729 621">7283-1202 (2.3II 20P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 537 2059 602">HOUSING : 7183-1202 SPACER : 7157-4037</p>
<p data-bbox="357 1060 708 1161">7282-1222 (2.3II 22P CONNECTOR SUB ASSEMBLY MALE)</p>		<p data-bbox="1740 1076 2059 1141">HOUSING : 7182-1222 SPACER : 7157-4086</p>

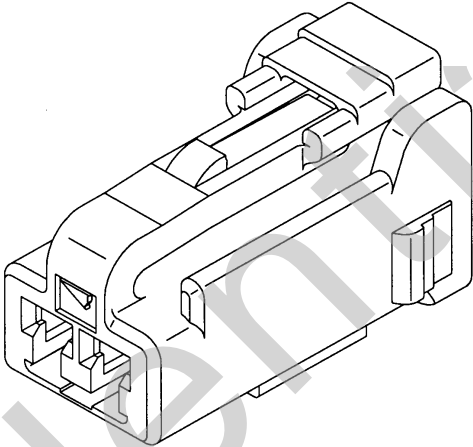
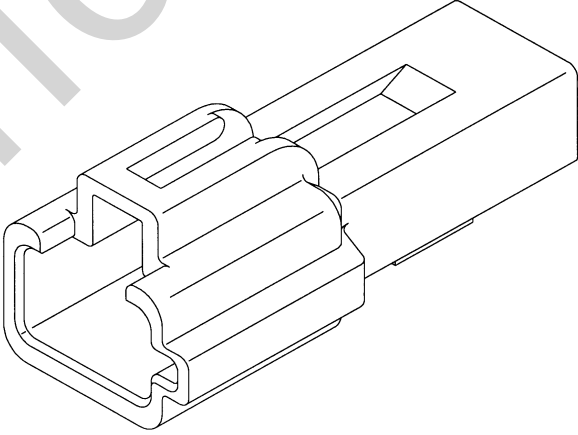
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="336 516 729 621">7283-1222 (2.3II 22P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 537 2059 602">HOUSING : 7183-1222 SPACER : 7157-4087</p>
<p data-bbox="336 1057 729 1162">7283-8229 (2.3II 22P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 1078 2059 1143">HOUSING : 7183-8229 SPACER : 7157-4087</p>

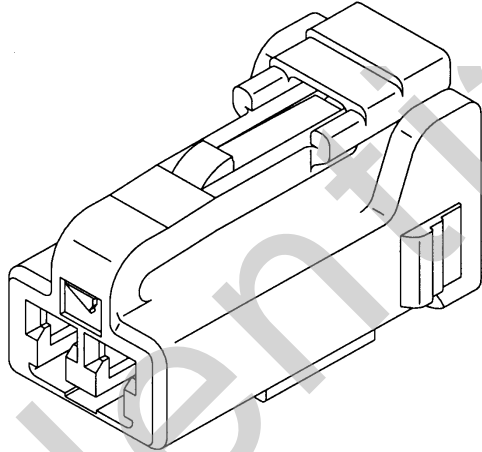
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="220 521 848 621">7282-1154 (2.3II 25P CONNECTOR SUB ASSEMBLY MALE FLANGE TYPE (R))</p>		<p data-bbox="1745 537 2056 602">HOUSING : 7182-1154 SPACER : 7157-4520</p>
<p data-bbox="220 1057 848 1157">7283-1154 (2.3II 25P CONNECTOR SUB ASSEMBLY FEMALE FLANGE TYPE)</p>		<p data-bbox="1745 1076 2056 1141">HOUSING : 7183-1154 SPACER : 7157-4523</p>

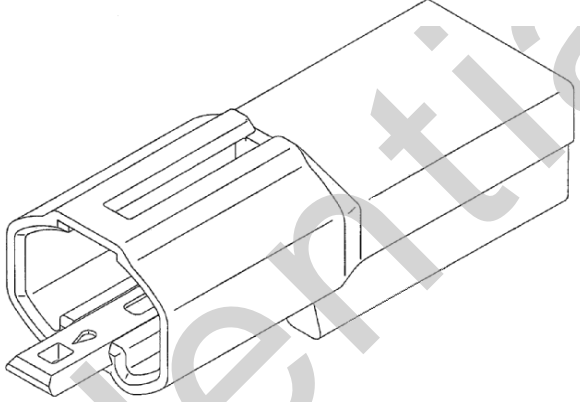
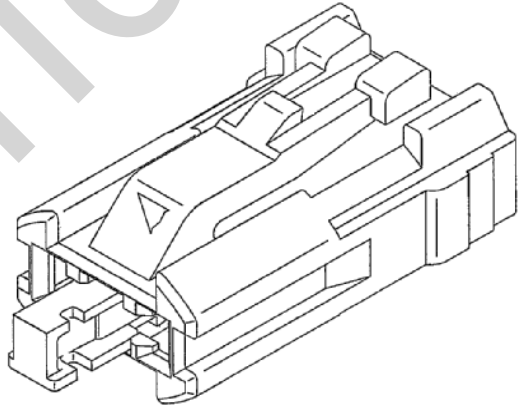
YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7282-1155 (2.3II 25P CONNECTOR SUB ASSEMBLY MALE FLANGE TYPE (L))</p>		<p>HOUSING : 7182-1155 SPACER : 7157-4522</p>
<p>7282-5012 (2.3II 2P CONNECTOR SUB ASSEMBLY MALE)</p>		<p>HOUSING : 7182-5012 SPACER : 7157-6500</p>



YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="336 521 729 621">7283-5012 (2.3II 2P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 537 2059 602">HOUSING : 7183-5012 SPACER : 7157-6501</p>
<p data-bbox="357 1060 708 1161">7282-5013 (2.3II 2P CONNECTOR SUB ASSEMBLY MALE)</p>		<p data-bbox="1740 1076 2059 1141">HOUSING : 7182-5013 SPACER : 7157-6500</p>

YAZAKI Part Number (Part Name)	Appearance	Remarks
<p data-bbox="336 521 729 621">7283-5013 (2.3II 2P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p data-bbox="1740 537 2059 602">HOUSING : 7183-5013 SPACER : 7157-6501</p>
<p data-bbox="357 1060 708 1161">7282-5014 (2.3II 2P CONNECTOR SUB ASSEMBLY MALE)</p>		<p data-bbox="1740 1076 2059 1141">HOUSING : 7182-5014 SPACER : 7157-6500</p>

YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7283-5014 (2.3II 2P CONNECTOR SUB ASSEMBLY FEMALE)</p>		<p>HOUSING : 7183-5014 SPACER : 7157-6501</p>

YAZAKI Part Number (Part Name)	Appearance	Remarks
<p>7282-4424 ( 2.3II 2P CONNECTOR HOUSING MALE SUB ASSEMBLY )</p>		<p>HOUSING : 7182-4424 SPACER : 7158-4930</p>
<p>7283-8123 ( 2.3II 2P CONNECTOR HOUSING FEMALE SUB ASSEMBLY )</p>		<p>HOUSING : 7183-8123 SPACER : 7158-4013</p>