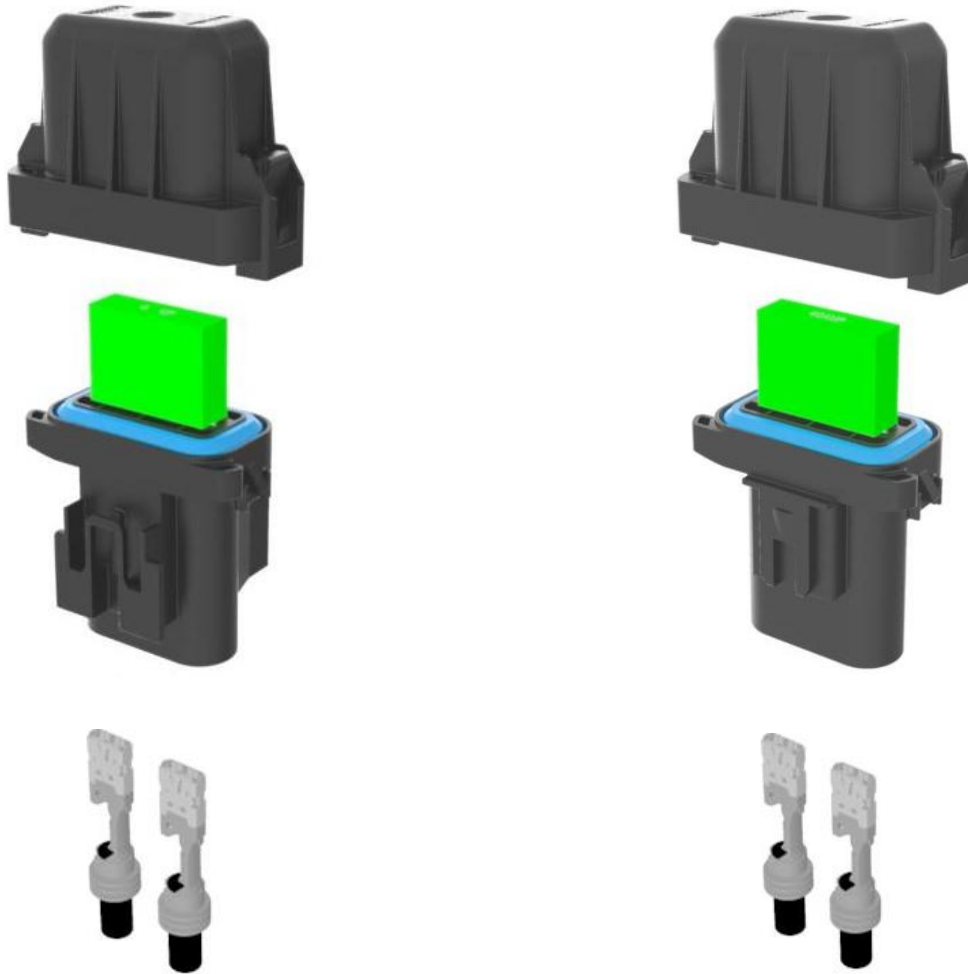


# 1P Maxi Fuse Box

- GENERAL PARTS, NOT RESTRICTED -



A	Revised	30DEC2017	NITHIN H K	DAVID KLEIN
LTR	Revision Record	Date	DWN	APVD

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**1. GENERAL**

**1.1 Purpose**

This specification describes the guidelines which must be followed during:

- a) Assembly of Receptacle terminal into the housing.
- b) Extraction of receptacle terminal from housing with proper extraction tool.
- c) Mounting and Un-mounting of fuse
- d) Mounting and Un-mounting of cover
- e) Mounting and Un-mounting of fuse box assembly

**1.2 Customer Drawings**

This application specification is based on the latest valid customer drawing as per below table.

Item No.	Part No.	Description
1	2319826-1 & -2	1 P Sealed Maxi Fuse Housing Assembly
2	2319021-2	Cover, 8 Pos. Mini Fuse and Relay Housing Assembly
3	1-2208766-3	MCON 8 Contact

Table 1

Part Description	Part No	Applicable Terminal Part No	Terminal Description	Applicable wire sizes	Applicable wire seal	Terminal Application spec.
1P Maxi fuse Box	2319826-1	1-2208766-3	MCON 8.0, CONTACT, SWS	6-10mm <sup>2</sup>	2300588	114-94285
1P Maxi fuse Box	2319826-2	1-2208766-3	MCON 8.0, CONTACT, SWS	6-10mm <sup>2</sup>	2300588	114-94285

Table 2

**1.3 Product Specification**

This application specification is valid for the products specified in the product specification 108-94652. The product specification contains information about technical details and performances. For this product, the temperature rating: -40°C to +125°C.

**1.4 Note**

Some of the named components within this specification are not scope of supply. These components include fuses, fuse puller & sheet metal bracket used for mounting. The harness maker can separately order fuses, fuse puller and should manufacture the sheet metal mounting bracket based on the bracket dimensions.

All work on terminals must be accomplished considering the appropriate processing specifications of the respective terminals.

If terminals are to be replaced, it is necessary that neither the contacts nor the cavity are damaged during this process. Use TE recommended extraction tool wherever specified. Defective parts must be replaced.

All parts must be processed at ambient temperature.

The harness or the cable itself must be affixed to protect the assembly and contacts against additional force.

**2. PRODUCT DESCRIPTION**

1P Maxi Fuse box consists of a sealed housing which can be assembled with MCON 8 sealed contacts.

It is coupled with a top cover which seals the fuses to avoid water ingress inside the housing.

For 2319826-1/-2, Snap mounting arrangement has been provided on the housing to ensure that the fuse box remains intact in its position during vehicle operation.

For 2319826-2, the mounting arrangement is provided which can be used with DT and AMP Seal 16 mounting clips.

**2.1 MOUNTING CLIPS**

**2.1.1 DT CLIPS**

Part Number	Material	Description
1027-003-1200	Stainless steel	Metal clip, 11mm Hole Mounting bracket DT/DTM/DTP/DTHD
1027-004-1200	Zn Plated Steel	Metal clip, 13mm Hole Mounting bracket DT/DTM/DTP/DTHD
1027-005-1200	Stainless Steel	Metal clip, 13mm Hole Mounting bracket DT/DTM/DTP/DTHD
1027-008-1200	Zn Plated steel	Metal Clip, 11mm Hole Side Mounting Bracket DT/DTM/DTP/DTHD
1027-009-1200	Zn Plated steel	Metal Clip, 13mm Hole Side Mounting Bracket DT/DTM/DTP/DTHD
1027-017-1200	Zn Plated steel	Metal Clip, 8.2mm Hole Side Mounting Bracket DT/DTM/DTP/DTHD
1011-026-0205	PA6/6 GF13-15	Attachment Clip DT Series
1011-030-0205	Nylon 6/6	Attachment Clip 'T-Stud' mount, DT Series
1011-310-0205	Nylon 6/6	Attachment Clip, Fir Tree Stud Mount DT & DTM Series

**2.1.2 AMP SEAL 16 CLIPS**

Part Number	Material	Description
1924487-1	Nylon 6/6	Retainer Clip, Ampseal 16
1924487-2	Nylon 6/6	Retainer Clip, Ampseal 16, With Anti Rotational Post
1924487-3	Nylon 6/6	Retainer Clip, Ampseal 16, Small Tree with Bowl and Rails

Note: Refer mounting clip customer drawings for recommended thread types and panel thickness.

### 3. 1P MAXIFUSE BOX

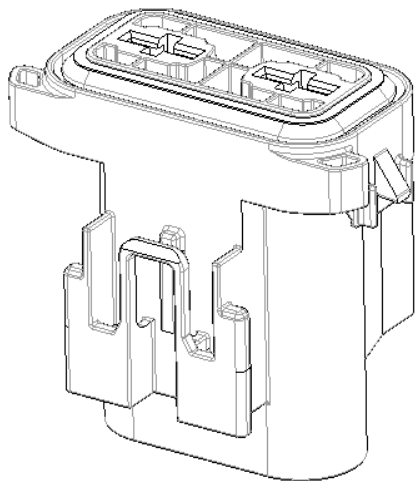


Figure 1  
2319826-1  
Housing assembly

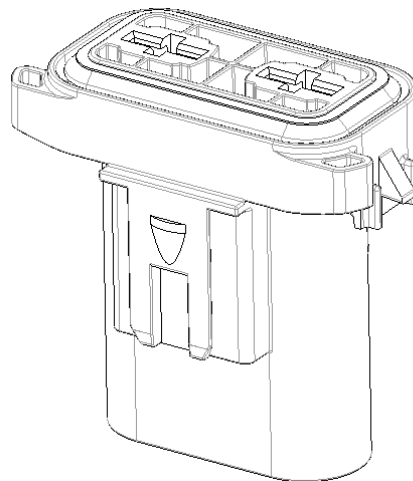


Figure 2  
2319826-2  
Housing assembly

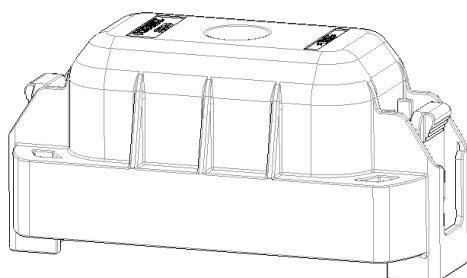


Figure 3  
2319021-1  
Cover

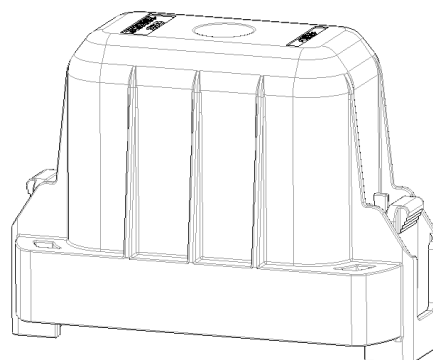


Figure 4  
2319021-2  
Cover

### 3.1 Terminal Insertion

#### MCON 8 Contact (TE P/N 1-2208766-3)

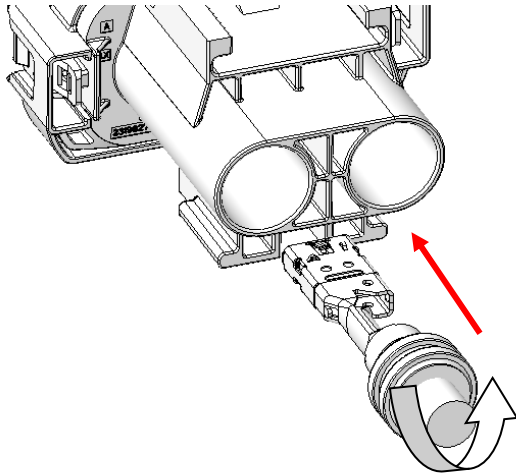


Figure 5

Orient the terminal as shown in Figure 5 and insert it in the housing cavity. The terminal locks with a click sound.

Contact Orientation 180° Turn able

### 3.2 Maxi Fuse Insertion

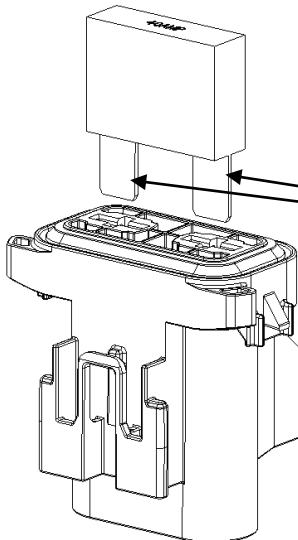


Figure 6

Orient the Fuse as shown in Figure 6 and push the Fuse in the shown direction.

Indicated positions hold the fuse.

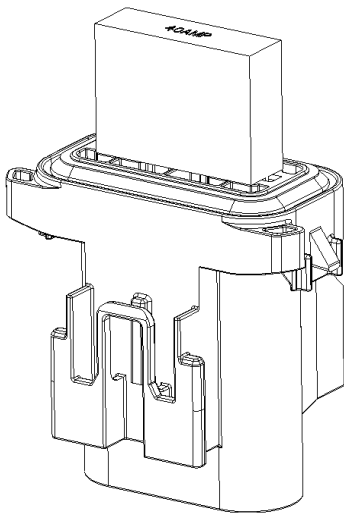


Figure 7

After inserting the fuse, final assembly will look as shown in Figure 7.

### 3.3 Cover Mounting

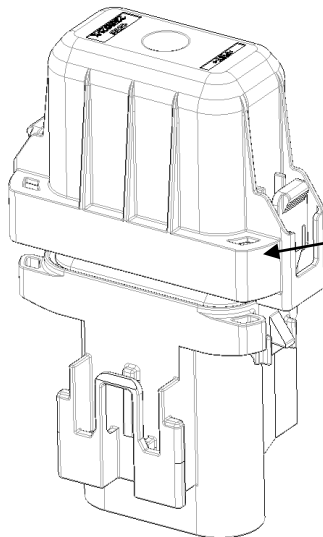


Figure 8

Poka-Yoke designed on cover will not allow the insertion of the cover in reverse direction. See Figure 8.

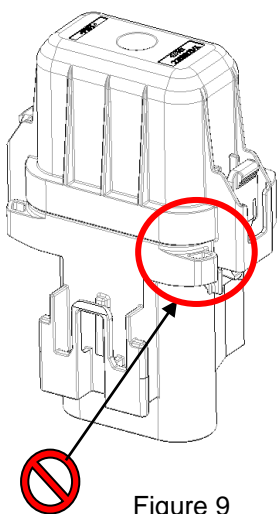


Figure 9

Figure 9 shows wrong orientation of cover during assembly.

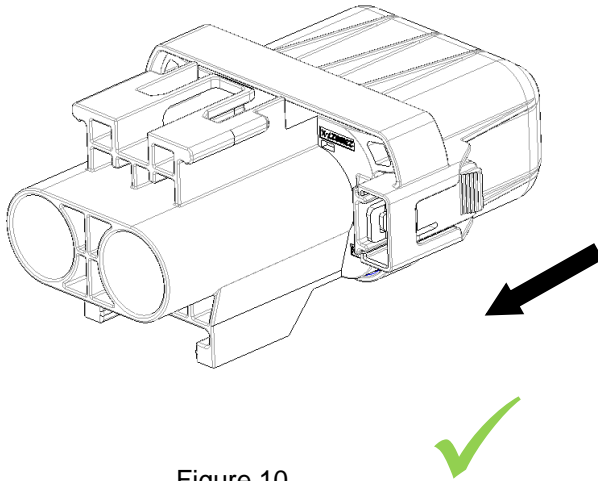


Figure 10

Figure 10 shows correct orientation of cover during assembly. In this orientation, push the cover up to end position until the Cover locks with a click sound.

\*Ensure both snaps are locked. See Fig. 11.

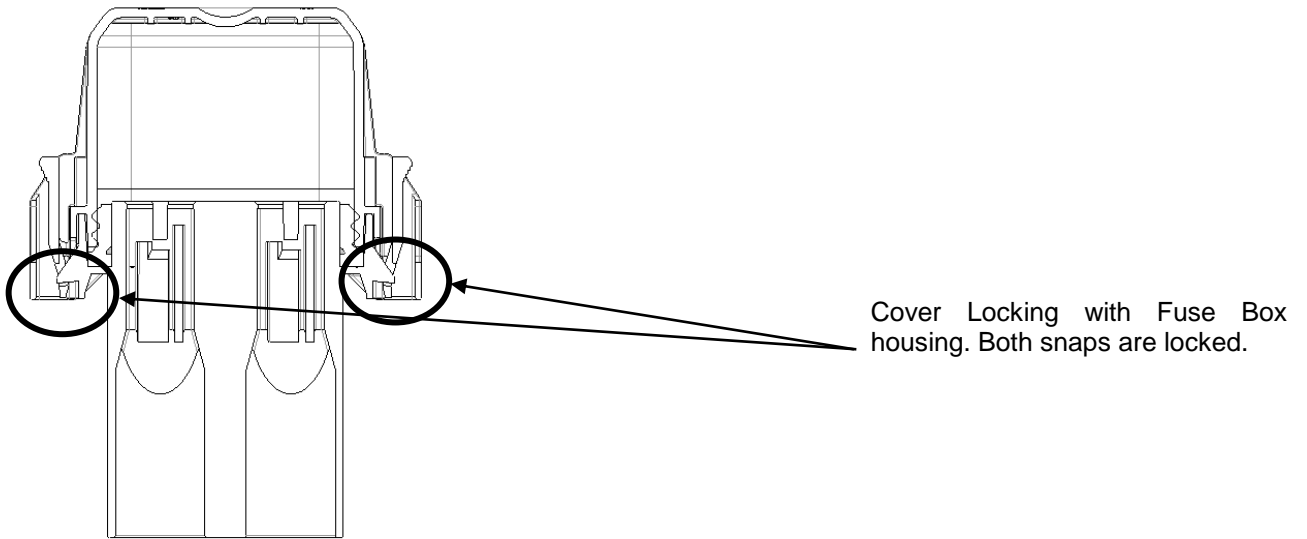


Figure 11

Cover Locking with Fuse Box housing. Both snaps are locked.

### 3.4 Cover Un-Mounting

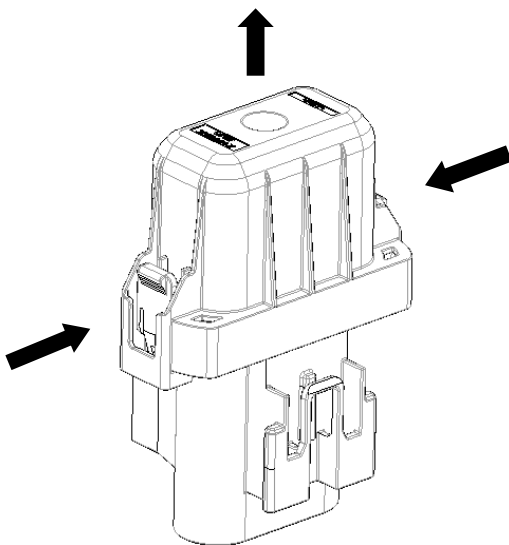


Figure 12

Press both the cover snap locks simultaneously as shown in Figure 12 and pull the cover in the upward direction to release it completely.



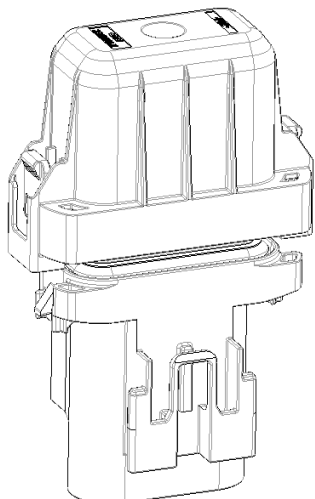


Figure 13

Figure 13 shows cover released completely.

### 3.5 Terminal Extraction

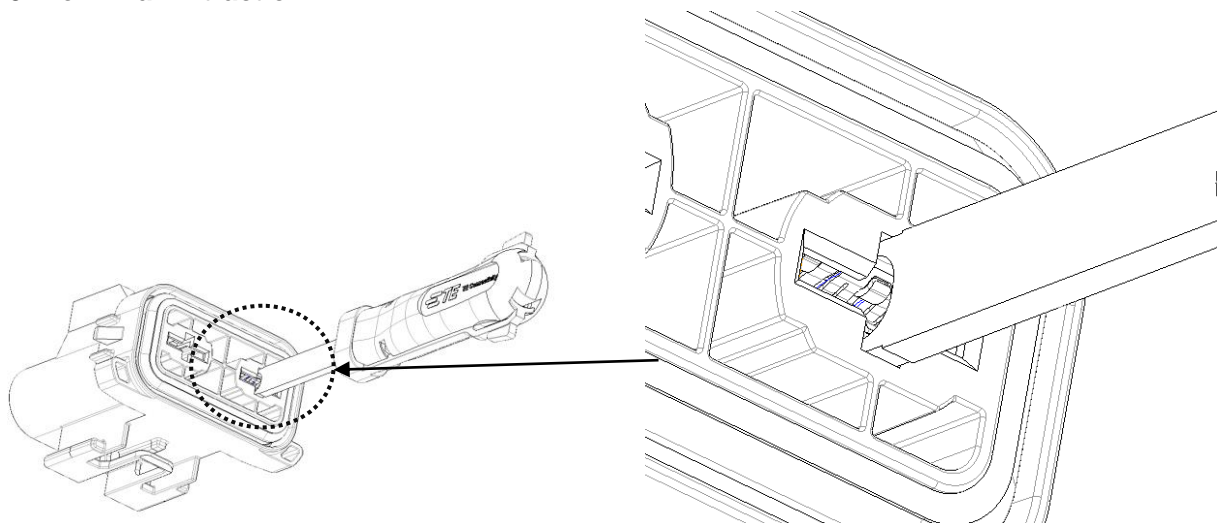
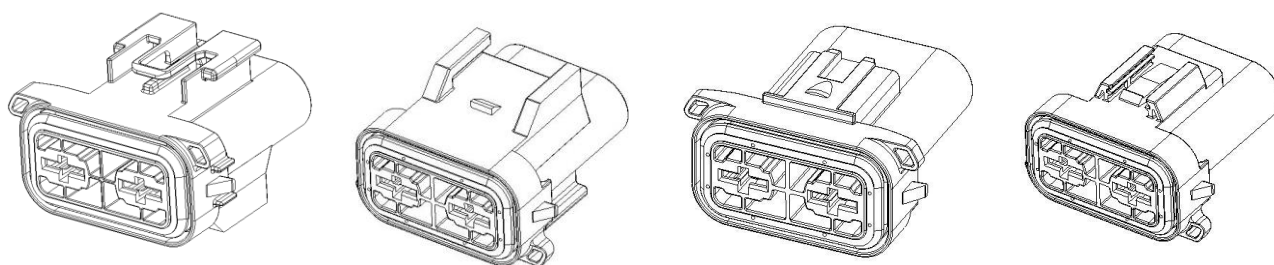


Figure 14

For replacement of fuse box contacts, it is highly recommended to use extraction tool P/N: 2-1579028-2 to avoid damage to terminal or the housing cavity. Insert the extraction tool in the housing cavity as shown in figure 14. Holding the extraction tool in place, pull the terminal out of the fuse box holder 2319826-1/-2 with the help of wires.

### 3.6 Fuse Box Mounting



2319826-1

2319826-2

Figure 15

3.7 ISO Fuse Box Mounting

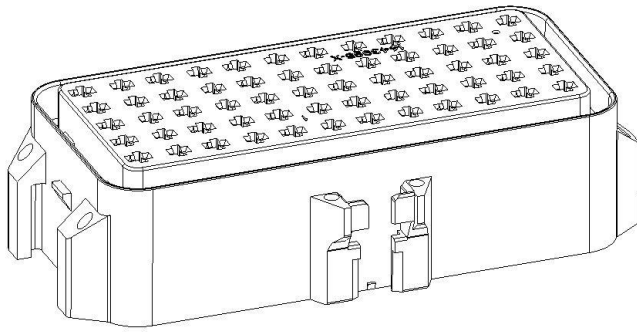


Figure 16  
1443995

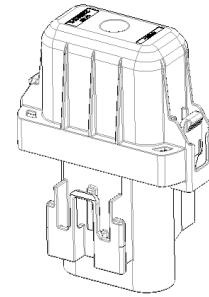


Figure 17  
Assembly of 2319826-1 with 2319021-2

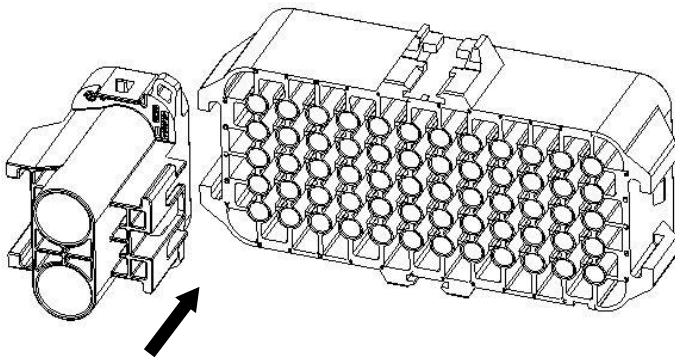


Figure 18  
Insert the housing to ISO fuse box in the proper direction as shown in Figure 18.

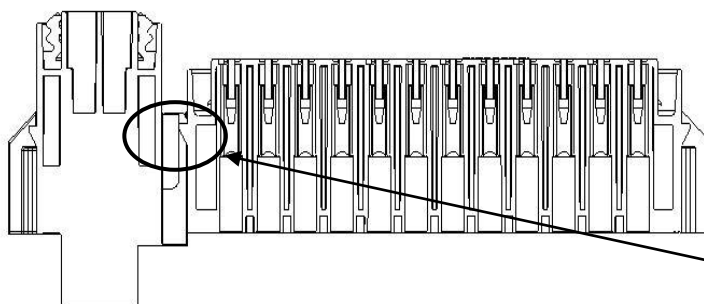


Figure 19

Figure 19 & 20 shows the Maxi fuse box mounted on the ISO fuse box.

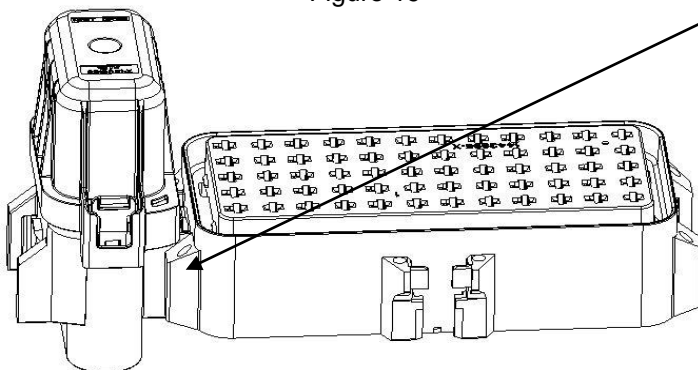
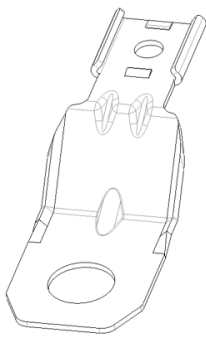
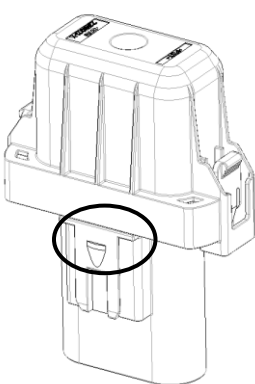
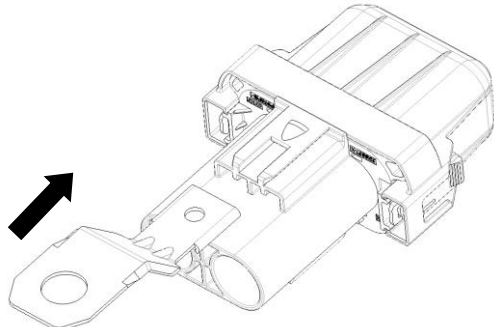
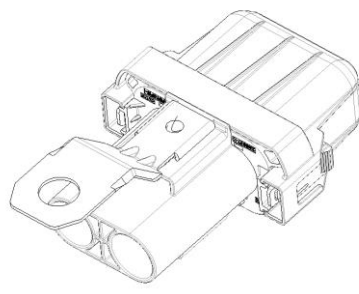

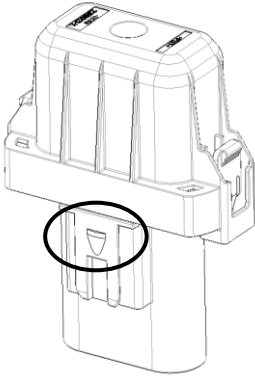
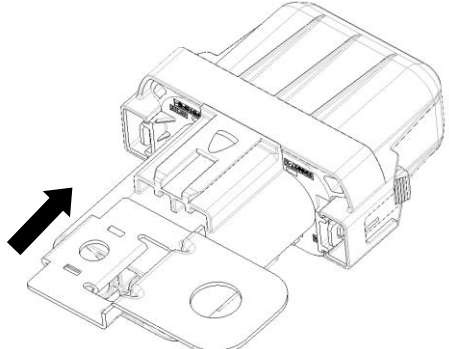
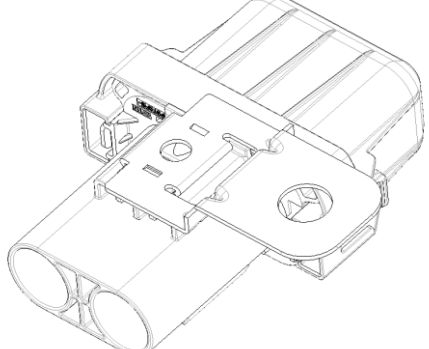


Figure 20

Fuse Box Clips Mounting

3.7.1 Sheet metal clips mounting

	
<p>Figure 21 1027-003-1200 1027-004-1200 1027-005-1200</p>	<p>Figure 22 Raised bump lock. One-time installation. cannot be removed after installation.</p>
	
<p>Figure 23 Insert the fuse box housing on the sheet metal mounting clip as shown in Figure 23. The clip is fixed on the vehicle body.</p>	<p>Figure 24 shows the fuse box mounted on the sheet metal mounting clip</p>
	
<p>Figure 25 1027-008-1200 1027-009-1200 1027-017-1200</p>	<p>Figure 26 Raised bump lock. One-time installation. cannot be removed after installation</p>

	
<p><b>Figure 27</b> Insert the fuse box housing on the sheet metal mounting clip as shown in Figure 27. The clip is fixed on the vehicle body.</p>	<p><b>Figure 28</b> shows the fuse box mounted on the sheet metal mounting clip</p>

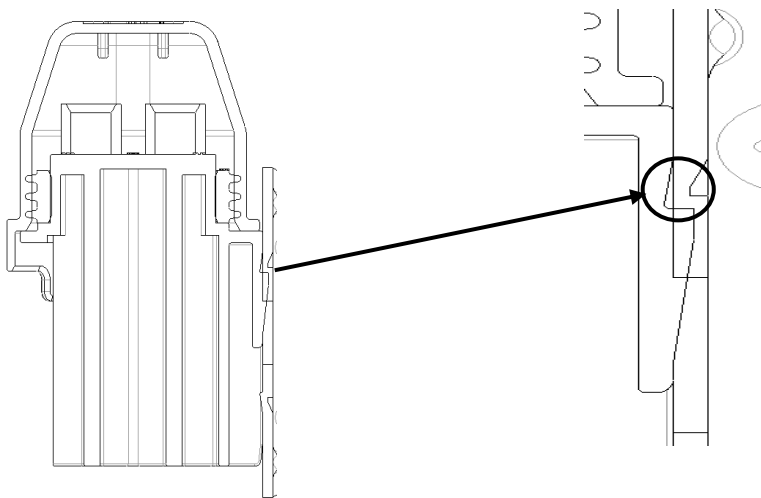
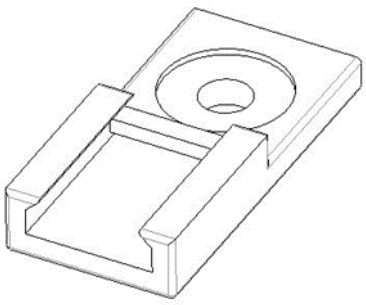
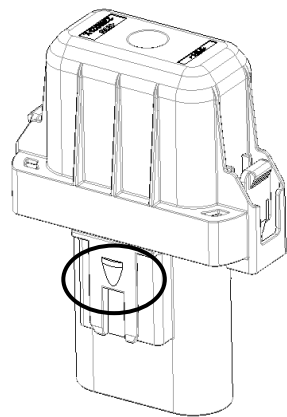
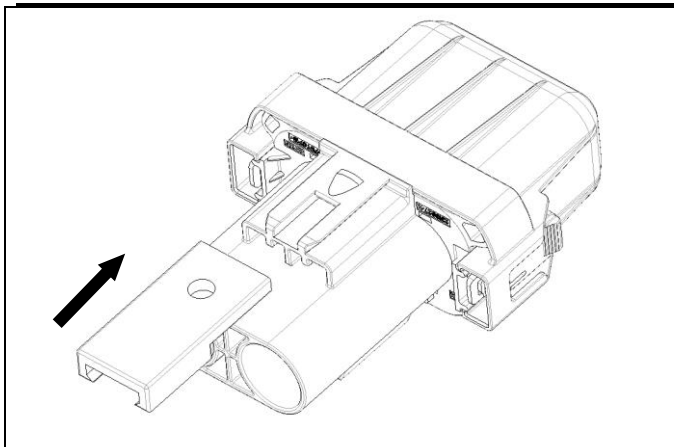


Figure 29

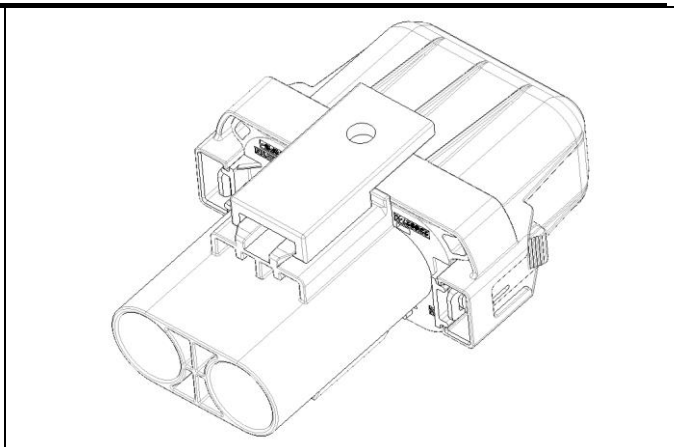
Figure 31 shows the engaged position of mounting clip to the raised bump in the housing.

### 3.7.2 Plastic clips mounting

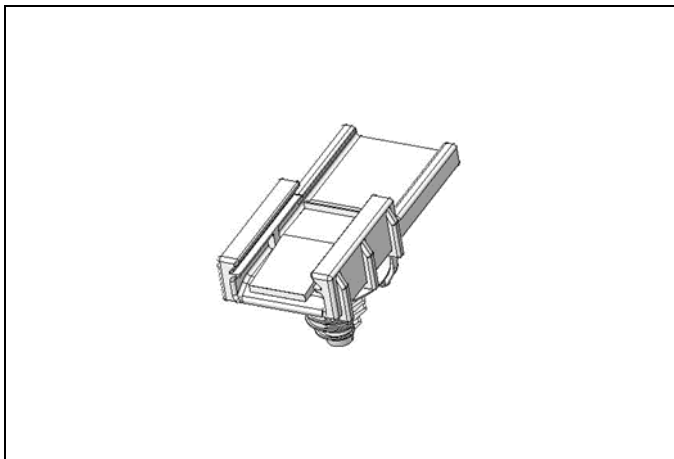
	
<p><b>Figure 30</b> 1011-026-0205</p>	<p><b>Figure 31</b> Raised bump lock. One-time installation cannot be removed after installation.</p>



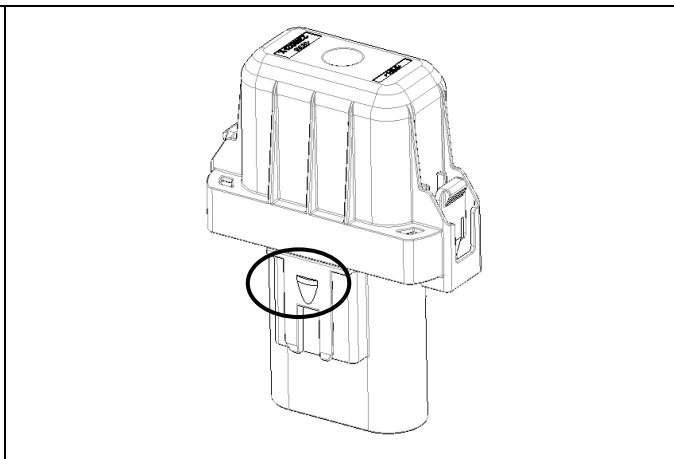
**Figure 32**  
 Insert the fuse box housing on the plastic clip as shown in Figure 32. The clip is fixed on the vehicle body. An audible click sound is to ensure the proper mounting.



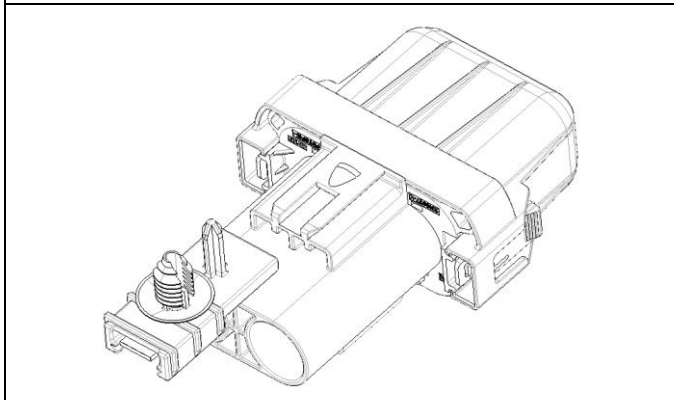
**Figure 33**  
 shows the fuse box mounted on the mounting clip



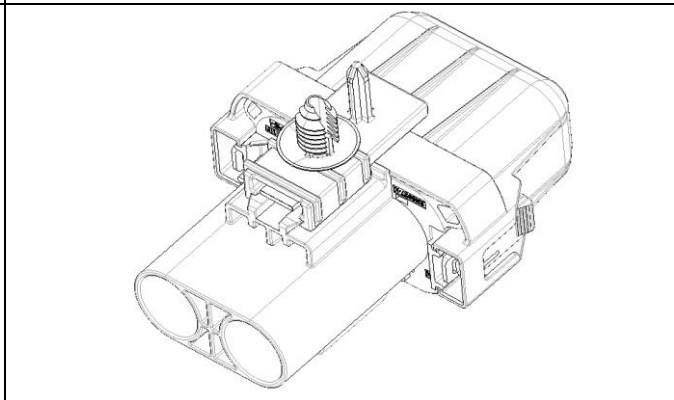
**Figure 34**  
 1011-310-0205



**Figure 35**  
 Raised bump lock  
 One-time installation cannot be removed



**Figure 36**  
 Insert the fuse box housing on the plastic clip as shown in Figure 36. The clip is fixed on the vehicle body. An audible click sound is to ensure the proper mounting.



**Figure 37**  
 shows the fuse box mounted on the mounting clip

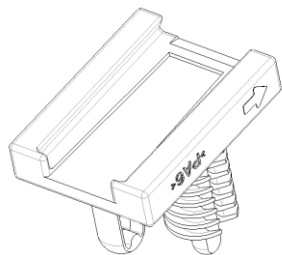


Figure 38  
1924487-1, 2 and 3

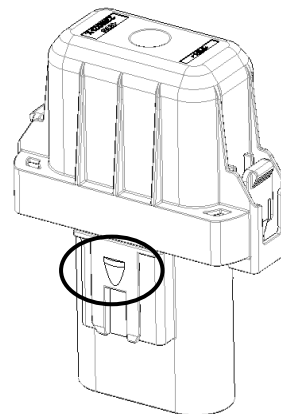


Figure 39  
Raised bump lock. One-time installation cannot be removed after installation

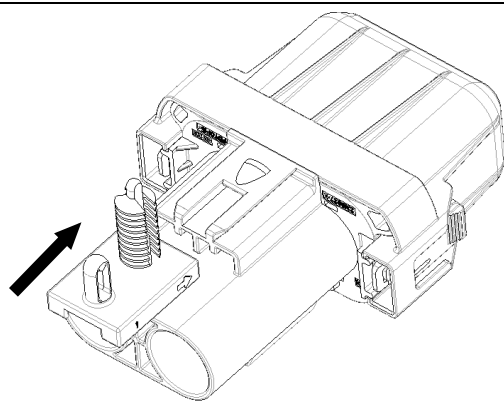


Figure 40  
Insert the fuse box housing on the plastic clip as shown in Figure 40. The clip is fixed on the vehicle body. An audible click sound is to ensure the proper mounting.

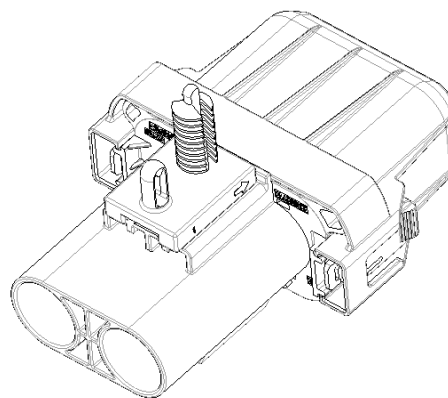


Figure 41  
shows the fuse box mounted on the mounting clip figure 42 shows the cross section view of the housing mounted to the clip.

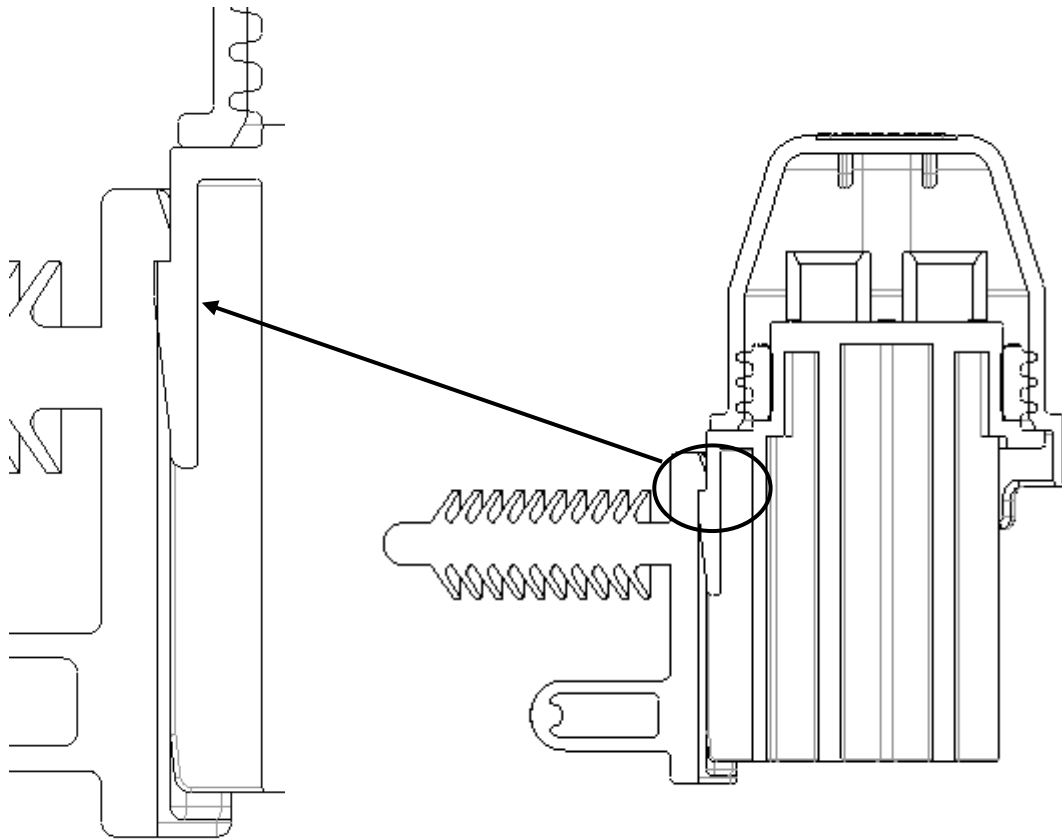


Figure 42

Figure 44 shows the engaged position of mounting clip to the raised bump in the housing.