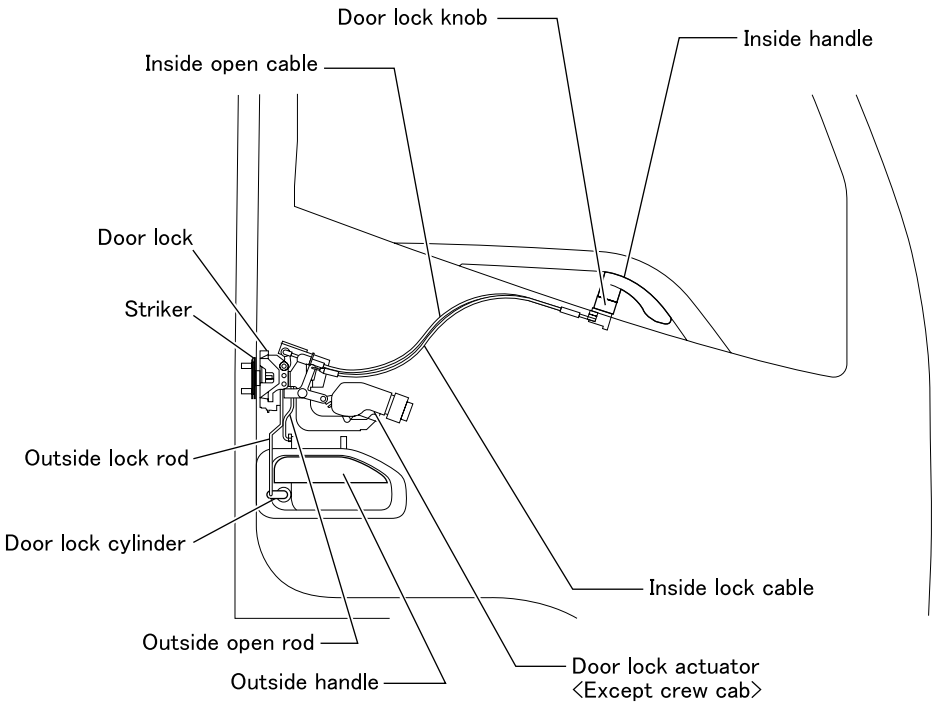
INDEX

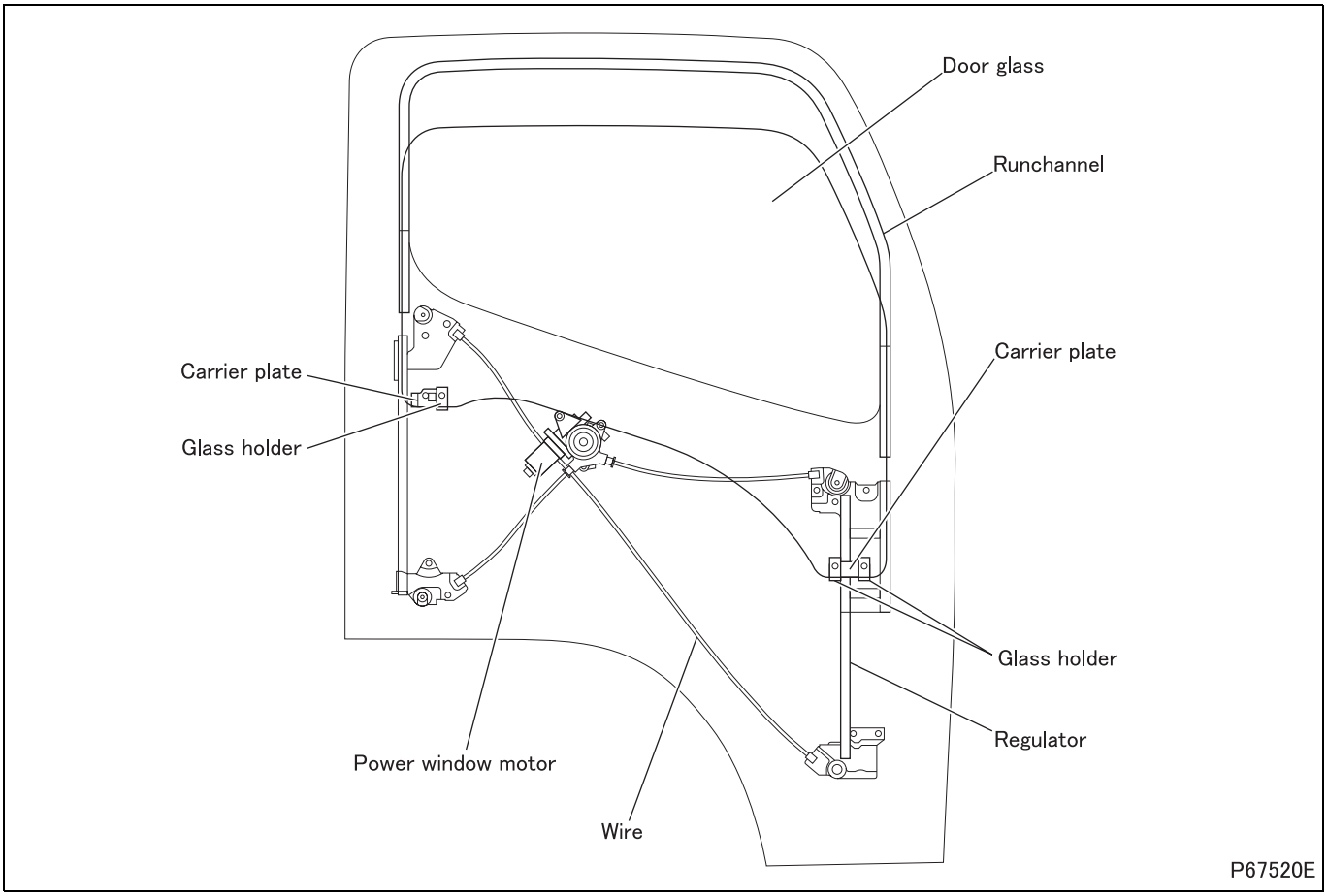
SPECIFICATIONS

Item		Specifications
		Except crew cab
Front door	Door lock system	Auto door lock system (centralized door lock)
	Door glass opening and closing mechanism	Electrical control type
Rear door	Door lock system	–
	Door glass opening and closing mechanism	–

1. Door Lock System



2. Window Opening and Closing Mechanism



- The door glass is secured to the carrier plate by the medium of glass holder.
- With the rotation of the power window motor <Electrical control type>, the carrier plate is moved up and down by means of the wire to open and close the door glass.

Door Glass Opening and Closing Mechanism

Symptoms / Possible causes	Door glass falls by gravity when vehicle is running	Regulator or motor emits noise when vehicle is running	Power window fails to operate	Power window fails to stop	Power window emits noise when in motion	Reference Gr
Power window switch faulty			O	O		Gr54
Regulator and motor assembly faulty	O		O	O	O	
Regulator and motor assembly improperly mounted					O	
Fuse or high current fuse blown			O			
Connector improperly connected, harness open-circuited or improperly grounded			O			
Door glass and door beltline molding unsteady		O				
Air temperature low						

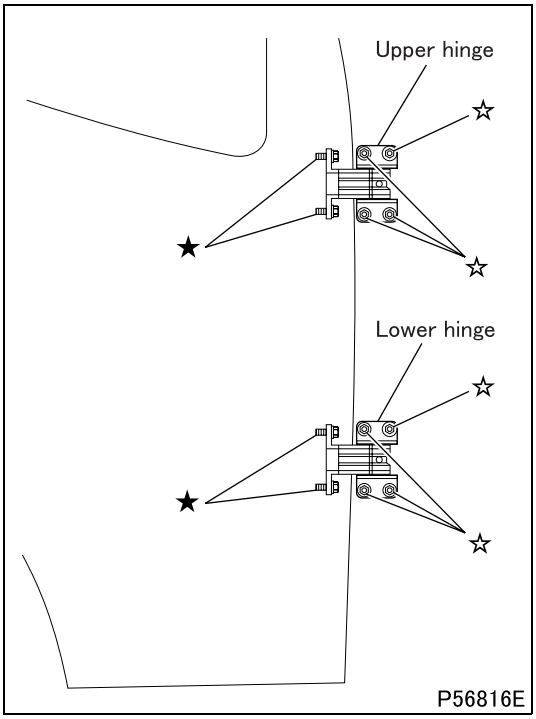
ON-VEHICLE INSPECTION AND ADJUSTMENT

1. Door Alignment

Tightening torque (Unit: N·m {ft.lbs, kgf·m})

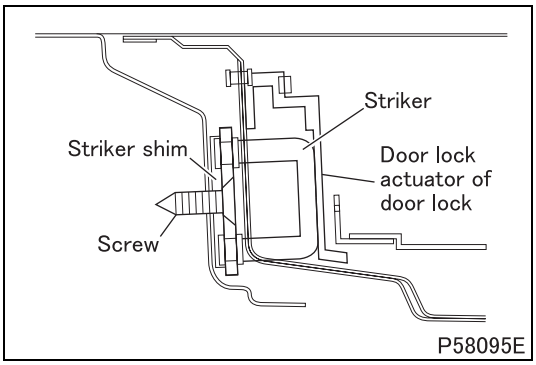
Mark	Parts to be tightened	Tightening torque	Remarks
–	Bolt (door mounting; ★ marked)	17 to 26 {12 to 19, 1.7 to 2.6}	–
	Bolt (upper and lower hinge mounting; ☆ marked)		
–	Screw (striker mounting)	9 to 14 {6.5 to 10, 0.9 to 1.4}	–

- Door alignment is adjusted by changing the positions of the upper and lower hinges and striker.
  Door alignment dimensions: See **1.3**.



1.1 Adjustment of hinge positions

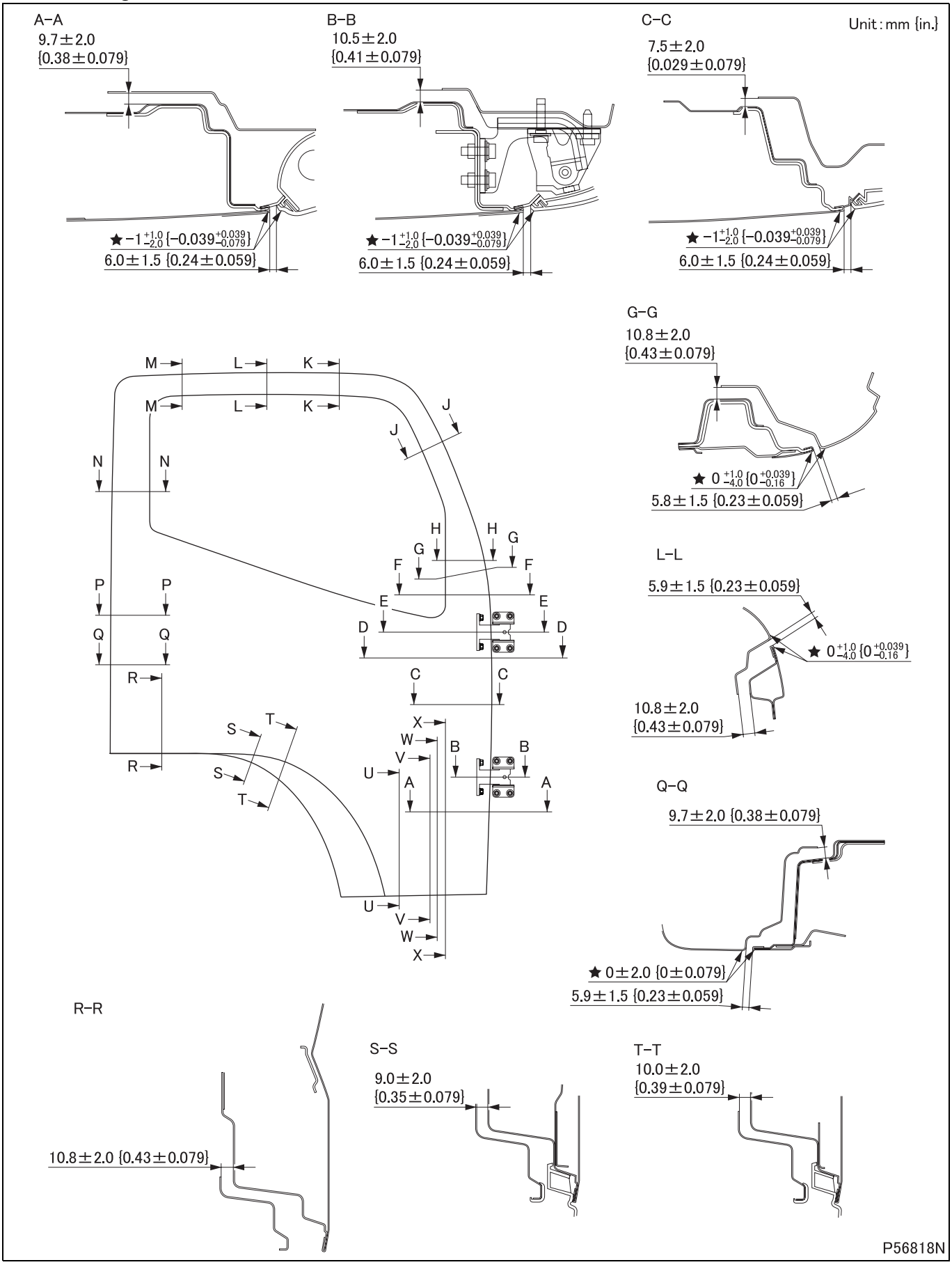
- Use ★ marked bolts to adjust gap.
- Use ☆ marked bolts to adjust flushness.



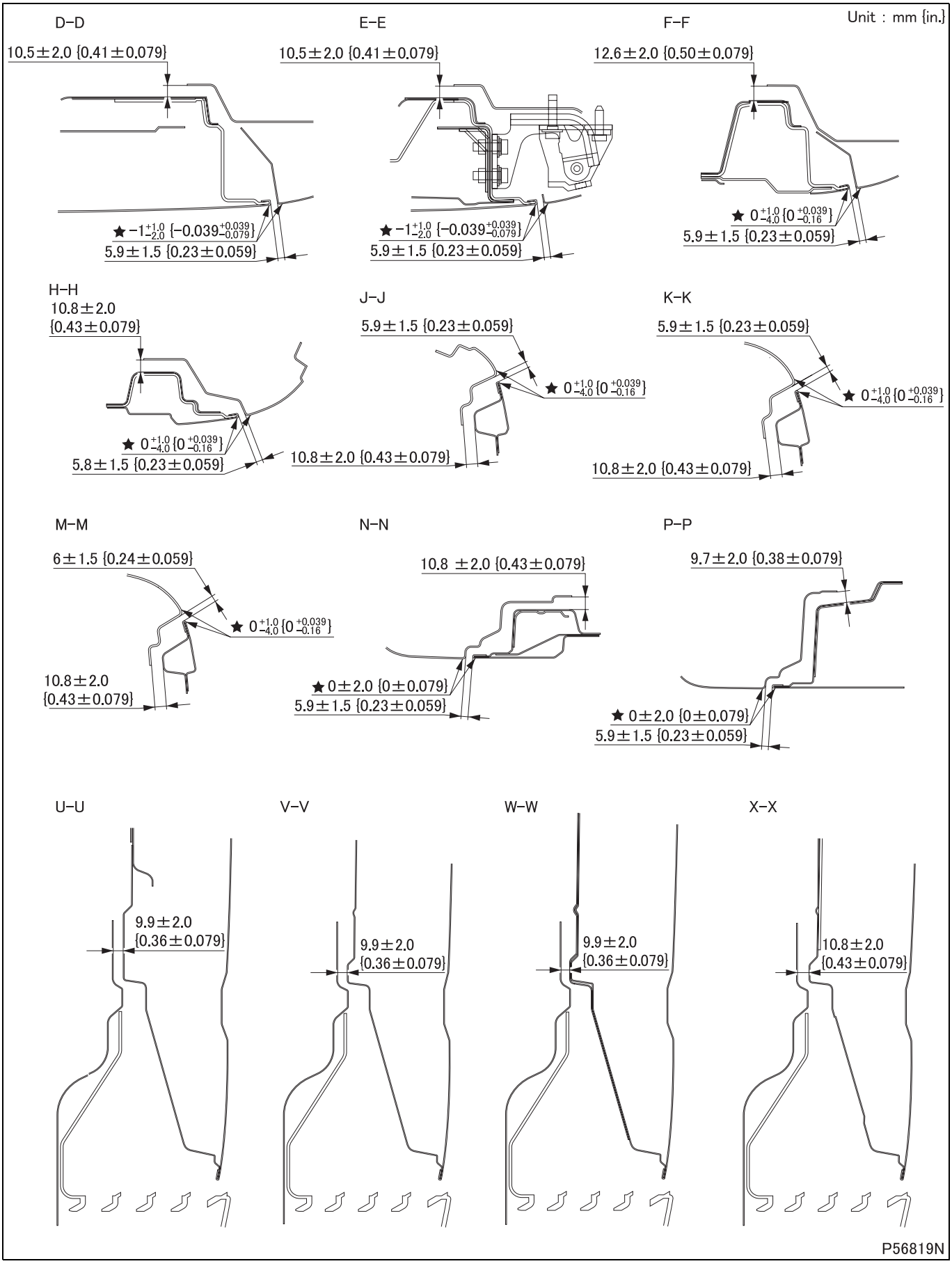
1.2 Adjustment of striker position

- Use mounting screw to make the adjustment.
- To adjust the engagement of the striker with the door lock actuator or door lock, change the number of striker shims as required.

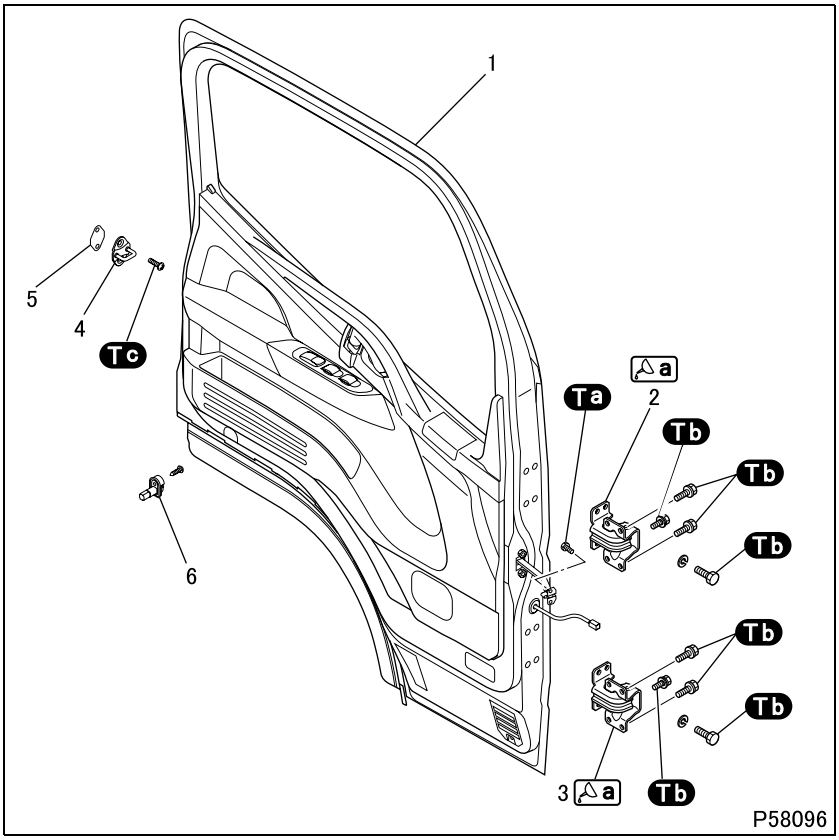
1.3 Door alignment dimensions



★: Flushness dimension (+ for outside of cab; – for inside of cab)


Unit : mm {in.}
D–D
10.5±2.0 {0.41±0.079}
★ −1 +1.0 −2.0 {−0.039 +0.039 −0.079}
5.9±1.5 {0.23±0.059}
E–E
10.5±2.0 {0.41±0.079}
★ −1 +1.0 −2.0 {−0.039 +0.039 −0.079}
5.9±1.5 {0.23±0.059}
F–F
12.6±2.0 {0.50±0.079}
★ 0 +1.0 −4.0 {0 +0.039 −0.16}
5.9±1.5 {0.23±0.059}
H–H
10.8±2.0
{0.43±0.079}
★ 0 +1.0 −4.0 {0 +0.039 −0.16}
5.8±1.5 {0.23±0.059}
J–J
5.9±1.5 {0.23±0.059}
★ 0 +1.0 −4.0 {0 +0.039 −0.16}
10.8±2.0 {0.43±0.079}
K–K
5.9±1.5 {0.23±0.059}
★ 0 +1.0 −4.0 {0 +0.039 −0.16}
10.8±2.0 {0.43±0.079}
M–M
6±1.5 {0.24±0.059}
★ 0 +1.0 −4.0 {0 +0.039 −0.16}
10.8±2.0
{0.43±0.079}
N–N
10.8 ±2.0 {0.43±0.079}
★ 0±2.0 {0±0.079}
5.9±1.5 {0.23±0.059}
P–P
9.7±2.0 {0.38±0.079}
★ 0±2.0 {0±0.079}
5.9±1.5 {0.23±0.059}
U–U
9.9±2.0
{0.36±0.079}
V–V
9.9±2.0
{0.36±0.079}
W–W
9.9±2.0
{0.36±0.079}
X–X
10.8±2.0
{0.43±0.079}
P56819N

M E M O



●Removal sequence

1 Door (See later section.)
2 Upper hinge
3 Lower hinge
4 Striker
5 Striker shim
6 Door switch

●Installation sequence

Follow the removal sequence in reverse.

CAUTION ⚠

- **Adjust front door alignment after installation. (See ON-VEHICLE INSPECTION AND ADJUSTMENT.)**

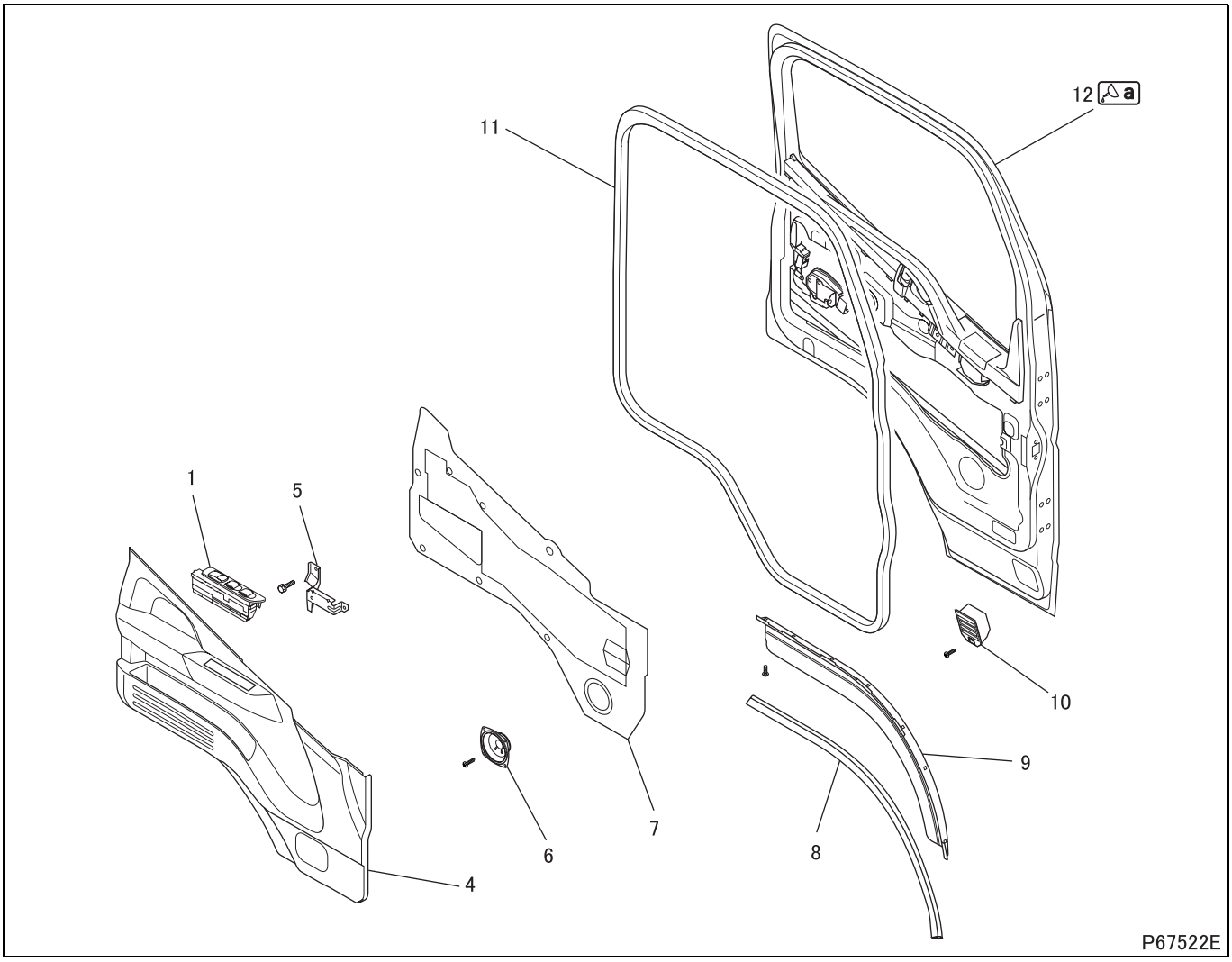
Tightening torque (Unit: N·m {ft.lbs, kgf·m})

Mark	Parts to be tightened	Tightening torque	Remarks
Ta	Bolt (door mounting)	4 to 6 {2.9 to 4.3, 0.4 to 0.6}	–
Tb	Bolt (door mounting)	17 to 26 {12 to 19, 1.7 to 2.6}	–
	Bolt (upper and lower hinge mounting)		
Tc	Screw (striker mounting)	9 to 14 {6.5 to 10, 0.9 to 1.4}	–

Lubricant and/or sealant

Mark	Points of application	Specified lubricant and/or sealant	Quantity
a	Rotating contact parts of upper and lower hinges	Chassis grease [NLGI No. 1 (Li soap)]	As required

Door



●Disassembly sequence

1 Power window switch
2 Clip
3 Regulator handle
4 Lower door trim
5 Trim bracket
6 Speaker
7 Water-proof cover
8 Weatherstrip <FE>
9 Door fender <FE>
10 Air outlet garnish
11 Weatherstrip
12 Door panel (See later section.)

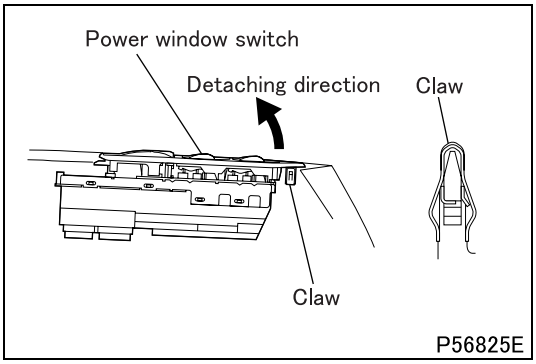
●Assembly sequence

Follow the disassembly sequence in reverse.

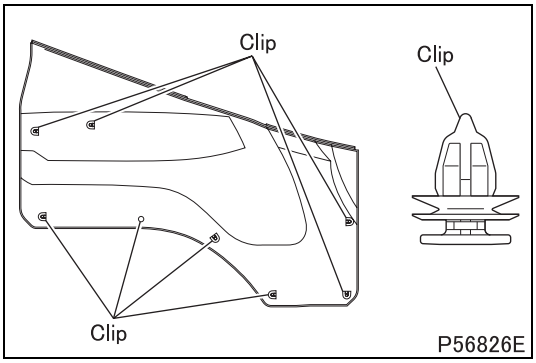
Lubricant and/or sealant

Mark	Points of application	Specified lubricant and/or sealant	Quantity
a	Water-proof cover fitting surface of door panel	Butyl tape	As required

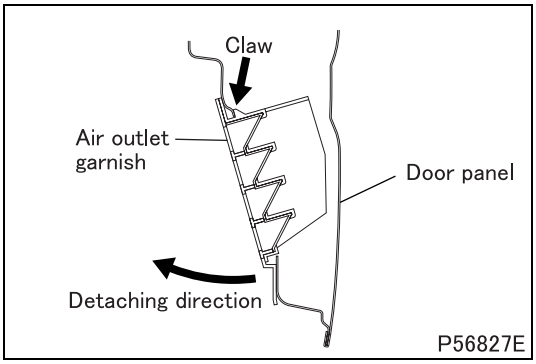
◆Removal procedure◆



■Removal: Power window switch

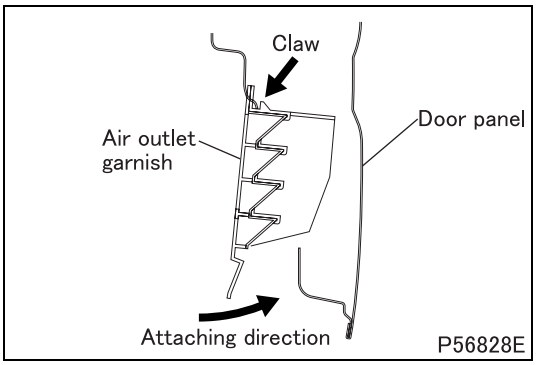


■Removal: Lower door trim



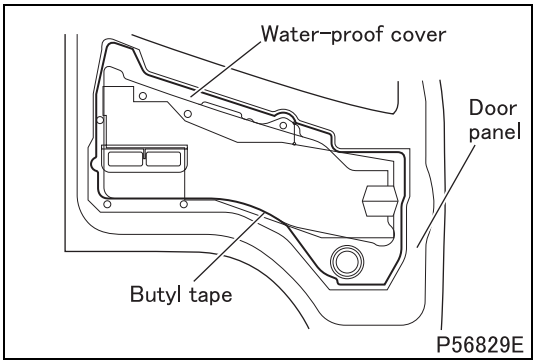
■Removal: Air outlet garnish

◆Installation procedure◆



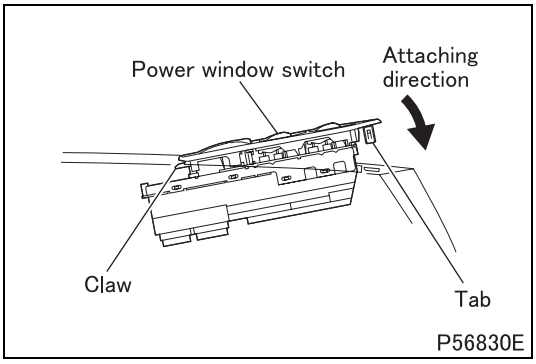
■Installation: Air outlet garnish

- Attach the air outlet garnish to the door panel in the illustrated direction, with its claw fitted in the door panel.



■**Installation: Water-proof cover**

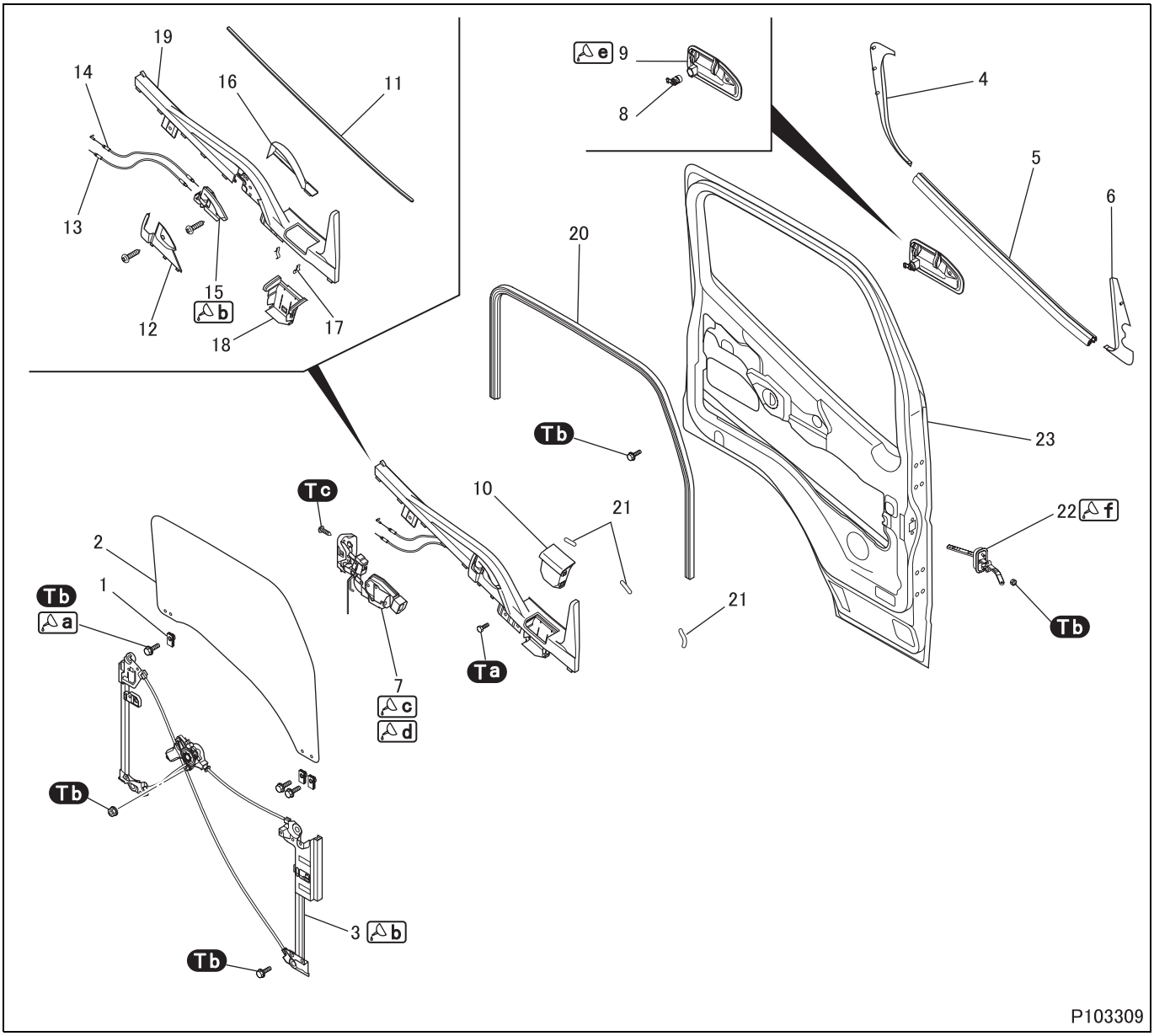
- Apply butyl tape to the door panel as shown, then attach the water-proof cover to the door panel.



■**Installation: Power window switch <Option>**

- To install the power window switch in position, fit claw first, then tab, in the lower door trim.

Door Panel Assembly



●Disassembly sequence

1 Glass holder
2 Door glass
3 Regulator and motor
Manual regulator
4 Sash garnish
5 Beltline molding
6 Delta garnish
7 Door lock actuator
<With auto door lock>
Door lock
<Without auto door lock>
8 Door lock cylinder
9 Outside handle
10 Ash tray
11 Weatherstrip
12 Inside handle inner cover
13 Inside lock cable
14 Inside open cable
15 Inside handle
16 Inside handle outer cover
17 Spring
18 Ash tray cover
19 Upper door trim
20 Runchannel
21 Protector
22 Door check
23 Door panel

●Assembly sequence

Follow the disassembly sequence in reverse.

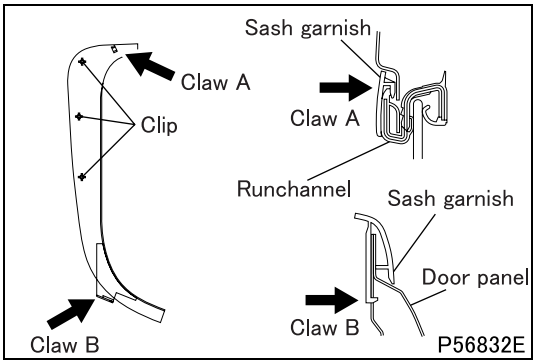
Tightening torque (Unit: N·m {ft.lbs, kgf·m})

Mark	Parts to be tightened	Tightening torque	Remarks
Ta	Bolt (door glass attaching)	4 to 6 {2.9 to 4.3, 0.4 to 0.6}	sealant
Tb	Nut (regulator and motor or manual regulator attaching)	4 to 6 {2.9 to 4.3, 0.4 to 0.6}	–
	Bolt (regulator and motor or manual regulator attaching)		
	Bolt (outside handle attaching)		
	Nut (door check attaching)		
Tc	Screw (door lock attaching)	4.9 to 8.2 {3.7 to 6.1, 0.51 to 0.84}	–
Td	Bolt (upper door trim attaching)	10 to 15 {7.2 to 11, 1.0 to 1.5}	–

Lubricant and/or sealant

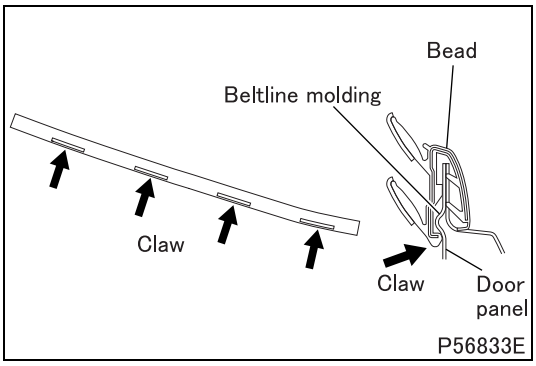
Mark	Points of application	Specified lubricant and/or sealant	Quantity
a	Bolt threads	LOCTITE Dri-Loc 202	As required
b	Sliding contact surface of regulator and motor assembly or regulator	Kyodo Yushi MULTEMP AC-D	As required As required
c	Rotating contact surface of door lock	Kyodo Yushi MULTEMP TAS-2	As required
d	Sliding contact surface of door lock	Kyodo Yushi MULTEMP SL-DII	As required
e	Rotating contact surface of outside handle	Showa Shell Sekiyu SUNLITE GREASE LA2	As required
	Rotating contact surface of inside handle		
f	Sliding contact surface of door check	Kyodo Yushi EMALUB M	1 g {0.035 oz}

◆ Removal sequence ◆



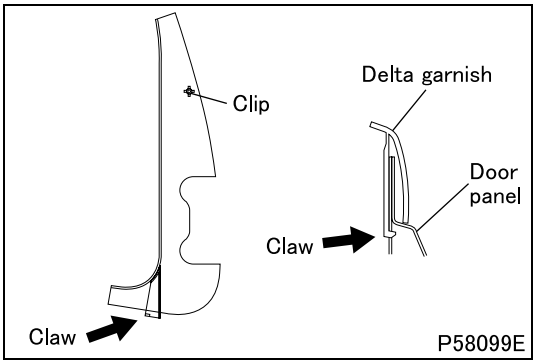
■Removal: Sash garnish

- Disengage claw A on upper part of the sash garnish from the runchannel, then remove clips (3 places).
- Disengage claw B on the lower part of the sash garnish from the door panel.



■Removal: Beltline molding

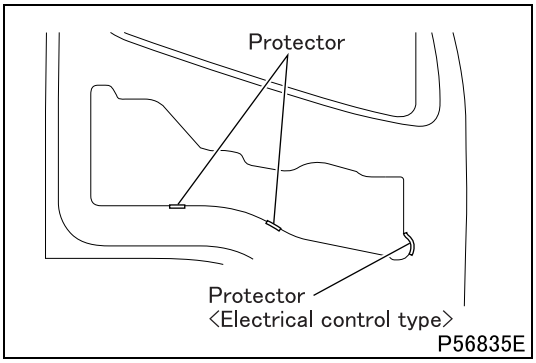
- Disengage claws (4 places) and remove the beltline molding from the door panel bead.



■**Removal: Delta garnish**

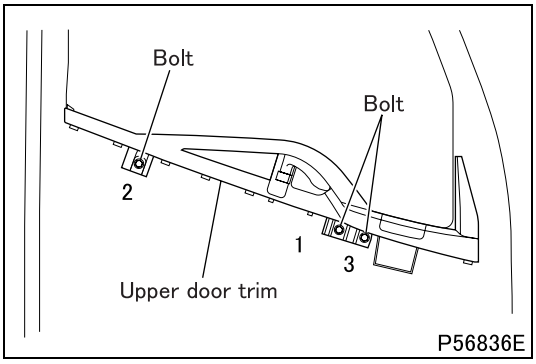
- Disengage clip (1 place) first and then claw to remove the delta garnish from the door panel.

◆Installation procedure◆



■**Installation: Protector**

- Fit the protectors (three on electrical control type; two on manual control type) to the door panel in the illustrated positions.

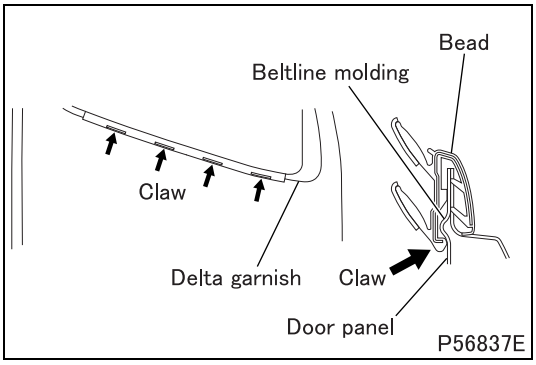


■**Installation: Upper door trim**

- Tighten bolts to specified torque in numerical order (1 to 3) as shown to secure the upper door trim.

■**Installation: Delta garnish**

- To install the delta garnish, follow the removal procedure in reverse.
  (See **"■Removal: Delta garnish"**.)

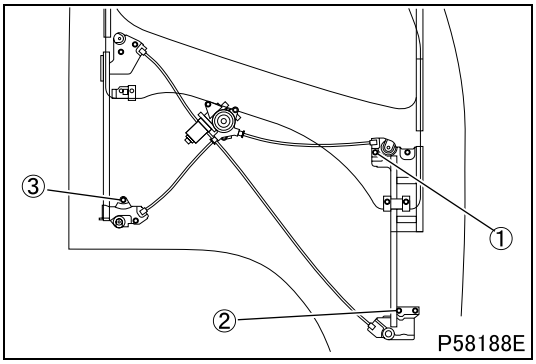


■**Installation: Beltline molding**

- Position the beltline molding with its front side applied to the delta garnish, then engage claws (4 places) with the door panel bead to secure the beltline molding in place.

■**Installation: Sash garnish**

- To install the sash garnish, follow the removal procedure in reverse.
  (See **"■Removal: Sash garnish"**.)



■**Installation: Regulator and motor or manual regulator**

- Tighten bolts (3 places) to specified torque in numerical order (1 to 3) as shown, then tighten the remaining bolts and nuts to specified torque.