

# Genuine back monitor camera cleaner mounting kit

## Installation manual

Applicable model: MAZDA AXELA (SPORT)

part number: C900 V7 540 (Back Monitor Camera Cleaner)

BM02 V7 545 (Back monitor camera cleaner mounting kit: for other than 360 ° view)

BN02 V7 545 (Back monitor camera cleaner mounting kit: for 360 ° view)

Thank you for purchasing a genuine Mazda product.

Be sure to read this manual before starting the installation process.

In order to always use the product in the best condition, please read this manual carefully and understand the contents before installing the product correctly.

Please go.

### <Caution and request>

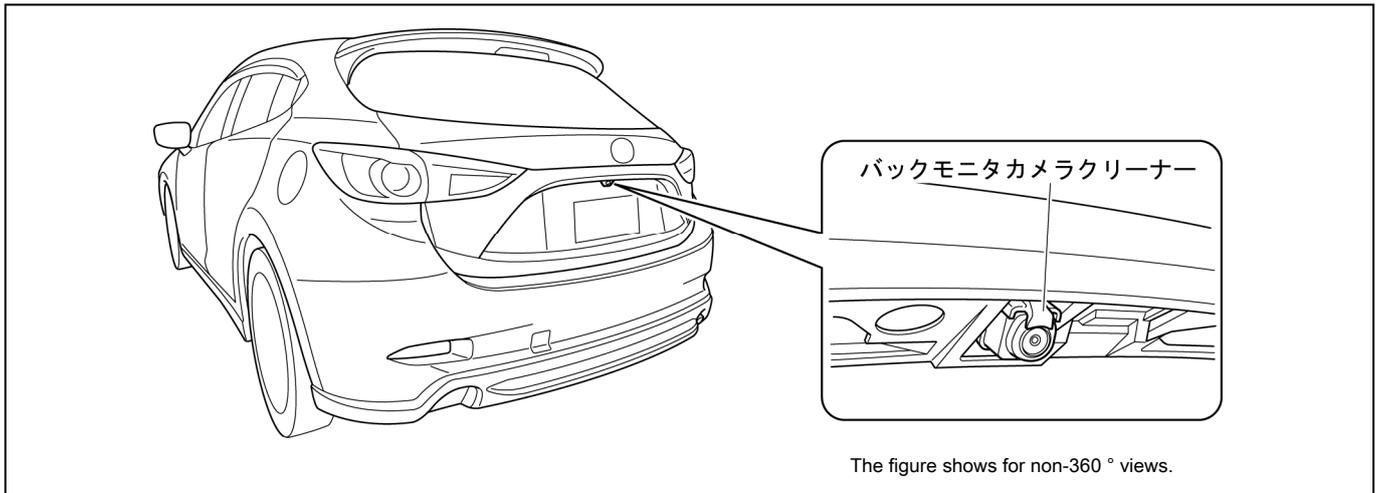
- Shown in this manual  With a warning mark  The caution mark is a safety matter related to installation and handling.  
Please be sure to adhere to it.

 **warning** : Failure to follow the warnings can be life-threatening or seriously injured.

 **Caution** : If you do not follow the precautions, you may cause an accident, get injured, or damage your car.  
I will.

- Use a torque wrench to tighten the parts where the tightening torque is described in this manual to the specified torque.  
Please. In addition, to the tightening torque value ( ) Is a reference value, and tightening with a torque wrench is essential.  
there is no.
- Never install or use the product as described in this manual.
- Never modify and install this product.
- To ensure work safety and reliability, be sure to carry out installation / removal work at a Mazda dealer.
- If you have any questions about the installation and handling of this product, please contact the store where you purchased the product.  
Please give me.
- Please note that we are not responsible for any problems caused by not observing the items described.
- Be careful not to lose or damage the removed parts, or to prevent foreign matter such as grease from adhering to them.

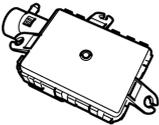
## 1. 1. Completion draw



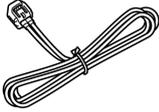
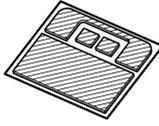
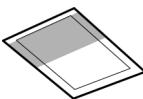
## 2. Component part

- Make sure all parts are complete and free of dirt, scratches and damage.

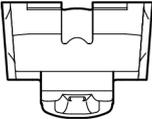
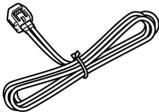
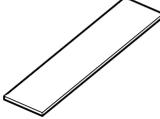
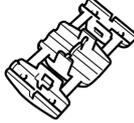
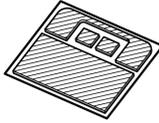
### ■ C900 V7 540 (Back monitor camera cleaner)

Department	Name	quantity
	air pump	1

### ■ BM02 V7 545 (Back monitor camera cleaner mounting kit) For other than 360 ° view

Department	Name	quantity	Department	Name	quantity	Department	Name	quantity
	nozzle	1		code	1		Urethane tape (65 x 250 mm)	1
	Hose (1m)	1		Electro tap	3		Damper	3
	Grommet	1		Double-sided tape	1		instruction manual Installation inspection sheet Parts list	1 each
	bracket	1		Pack primer	1			
	Cable ties (For bracket)	1		Cable ties	7			

■ BN02 V7 545 (Back monitor camera cleaner mounting kit) For 360 ° view

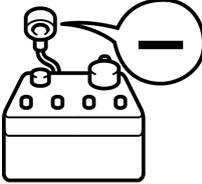
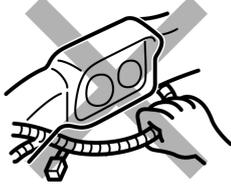
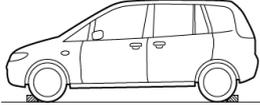
Department	Name	quantity	Department	Name	quantity	Department	Name	quantity
	nozzle	1		code	1		Urethane tape (65 x 250 mm)	1
	Hose (1m)	1		Electro tap	3		Joint	2
	Grommet	1		Double-sided tape	1		Damper	3
	bracket	1		Pack primer	1		instruction manual Installation inspection sheet Parts list	1 each
	Cable ties (For bracket)	1		Cable ties	7			

### 3. 3. Items to check before installation work

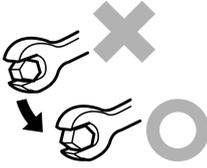
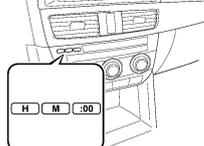
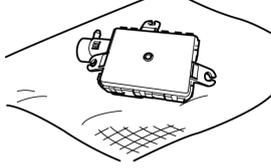
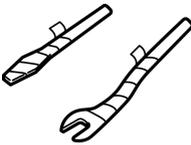
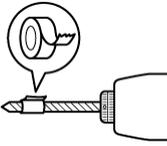
#### Tools used

- ☆ Phillips screwdriver
- ☆ Flat-blade screwdriver
- ☆ Socket wrench
- ☆ Scissors
- ☆ Measuring rod
- ☆ Tweezers
- ☆ Nippers
- ☆ Drill (φ3, φ6, φ9.5)
- ☆ Protective sheet
- ☆ Punch

#### ⚠ warning

<p><b>Battery (-) Terminal</b> The terminal is not touched Please be careful enough I. For short accidents during work Due to damage to parts, electric shock, or injury It will be the cause.</p>	<p>The harness is forcibly pulled Please do not. Accidents due to disconnection or short circuit Also, perform work as it may cause electric shock or fire. Due to work disconnection I will.</p>	<p>Park the vehicle on a flat surface and disconnect / connect the connector Securely hold the parking brake and the connector body Set the wheel chocks. It may start moving inside and cause an injury, resulting in a fire. I will.</p>	
			

#### ⚠ Caution

<p>Removal / installation of vehicle parts When doing, prevent scratches Masking tape, prote Protect with a Kutar.</p>	<p>Work that suits the dimensions and purpose of use Work with tools Please. It may cause damage to parts. Su.</p>	<p><b>Battery (-) Terminal</b> When you remove the power win Do, clock, i-stop, steari Reference point of the steering angle sensor, etc. Initial setting value and memory It will be erased, so recovery work Please do.</p>	<p>Removed parts / kit parts Protective sea to prevent scratches Please put it on the top.</p>
			
<p>Driver and fastener Vehicle scratches on the mover Wrap protective tape to prevent stay here.</p>	<p>[Drilling] When making a hole, prevent penetration Be sure to use gum on the drill to stop Wrap tape, etc. Wrap a drill or hole saw. I.</p>	<p>[Drilling] When making a hole, the drilling position To prevent it from slipping Please hit vertically against I.</p>	<p>[Drilling] After making a hole, burr, mosquito Make sure to remove Eri etc.</p>
			

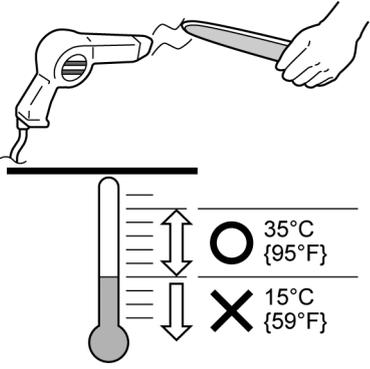
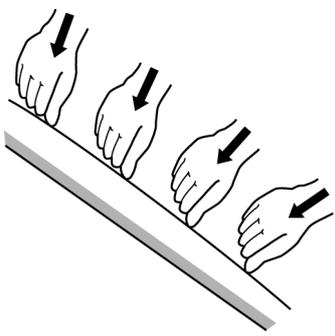
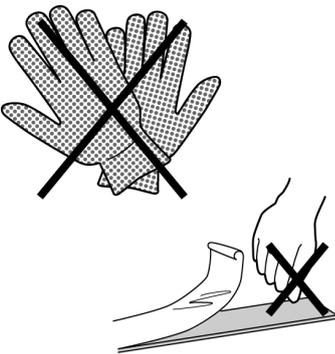
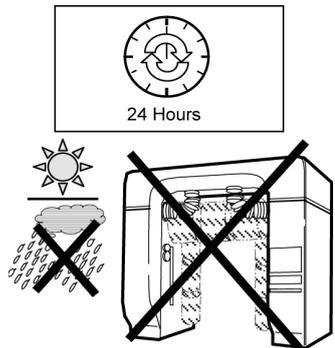
#### advice

For removing and installing vehicle parts  
Regarding, maintenance manual of the corresponding vehicle  
Please refer to.



## 4. Double-sided tape construction method

\* Adhesives refer to doors and bumpers, and parts refer to supplies.

<p><b>1. Avoid atmospheric temperature below 15 °C</b></p> <p>The stickiness of the adhesive makes the resin soft Because it depends, at low temperature (15 °C or less) Less stickiness and less adhesive strength To do. Therefore, work at an ambient temperature of 15 °C or less You have to avoid it. When working at an ambient temperature of 15 °C or less Warms the adherend and parts sufficiently Must-have.</p>	<p><b>2. Uniform crimping</b></p> <p>Secure enough adhesive side of double-sided tape Therefore, the adhesive surface has a uniform force on the adherend. It is necessary to press with (50N or more) Su. In particular, double-sided tape terminals and adherends are curved In the case of, crimp sufficiently.</p>	<p><b>3. Cleaning of the adherend</b></p> <p>Dirt, dust, oil, etc. on the surface of the adherend If there is, the double-sided tape will get dirty The adhesive strength of the double-sided tape is reduced. Clean the adherend surface before gluing There is a need. The interior is mainly neutral detergent, and the exterior is IPA (isopropyl alcohol) or e Need to clean with wight gasoline etc. is there. After cleaning, dry it thoroughly.</p>
		
<p><b>4. Avoid dirt on the tape</b></p> <p>Touch the surface of the adhesive with your hands when working Then, the oil of the hand adheres to the adhesive and both sides The adhesive strength of the tape is reduced. Also, during work gloves, hair and dirt on the work gloves May adhere. Make sure that the adhesive side of the double-sided tape does not get dirty.</p>	<p><b>5. Surface treatment with primer</b></p> <p>The adherend is in contact with resin (material, unpainted, etc.) When wearing, the adhesive force required for installation Surface treatment such as primer to obtain necessary. When performing primer treatment, double-sided table Do not apply anything other than the adhesive surface of the Apply skiing. Thoroughly dry after applying the primer thing.</p>	<p><b>6. Handling after installation</b></p> <p>Adhesive strength is not stable for 24 hours after installation Therefore, driving, car washing, and rain for about 24 hours Do not leave it in such a place. In addition, re-pasting after crimping the product, etc. Absolutely go because the adhesive strength is extremely reduced I don't know.</p>
		

## 5. Removal of vehicle parts

Remove the vehicle parts in the following order.

(For details, refer to "Vehicle Parts Removal Procedure (Vehicle Type)" on the Supplies Web.)

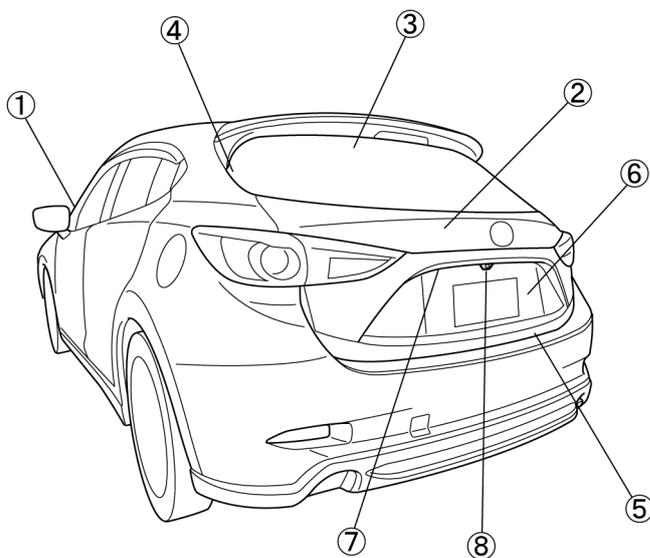


Caution

- The removed vehicle parts will be reused. Be careful not to scratch or lose it.

reference

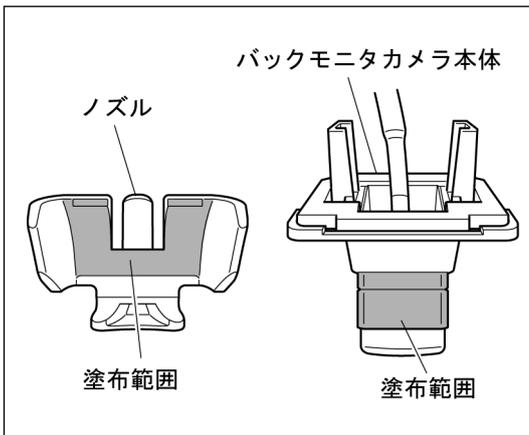
- For the removal / installation of vehicle parts, refer to the maintenance manual of the relevant vehicle.  
Failure to follow the procedures in the maintenance manual may lead to an accident.  
It may also lead to vehicle malfunction.



- ① Disconnecting the battery (-) terminal
- ② Rear package tray
- ③ Lift gate upper trim
- ④ Lift gate side trim (driver's side, passenger's side)
- ⑤ Lift gate recess
- ⑥ Lift gate lower trim
- ⑦ Lift gate garnish
- ⑧ Back monitor camera

Vehicle parts removal procedure

## 6 .. Preparation before installation



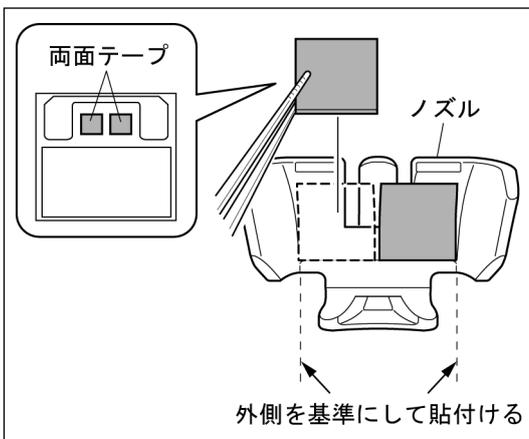
### Back monitor camera

(For other than 360 ° view)

1 .. Nozzle, back monitor The range where the double-sided tape of the camera body sticks

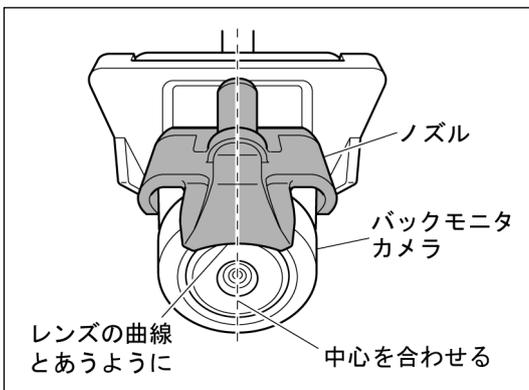
Apply pack primer to (net part).

- After applying the pack primer, allow it to dry sufficiently.



2 .. Use tweezers to attach the double-sided tape to the nozzle.

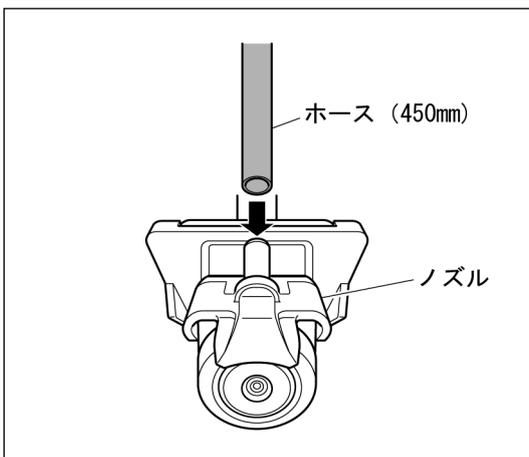
(2 places)



3 .. Peel off the double-sided tape and put the nozzle on the back monitor camera body

Paste in.

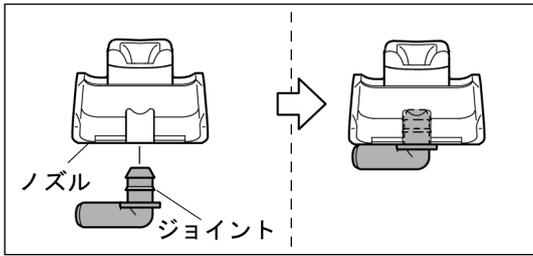
- Work so that the fitted nozzle part does not fall  
Please give me.
- Double-sided tape is sufficiently crimped to the back monitor camera body  
Please let me.



Four .. Cut the hose to a length of 450 mm with scissors.

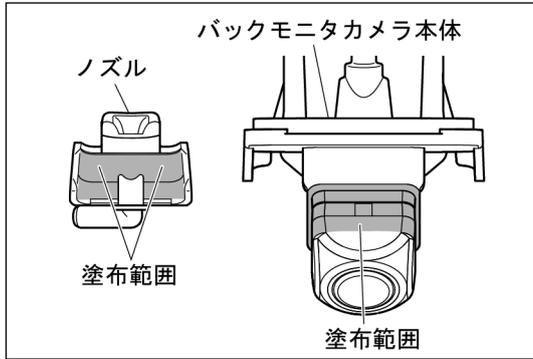
Five .. Attach the hose to the nozzle.

- Make sure the hose is fully inserted.



(For 360 ° view)

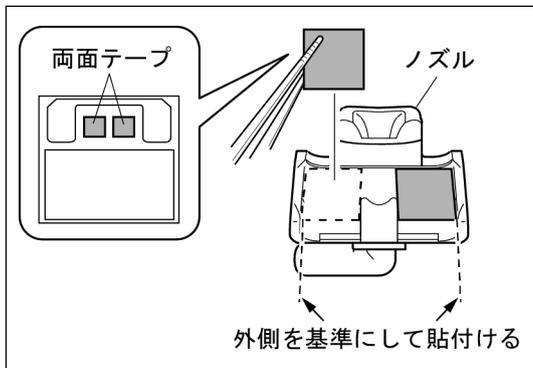
1 .. Attach the joint (1 place) to the nozzle.



2 .. Nozzle, back monitor The range where the double-sided tape of the camera body sticks

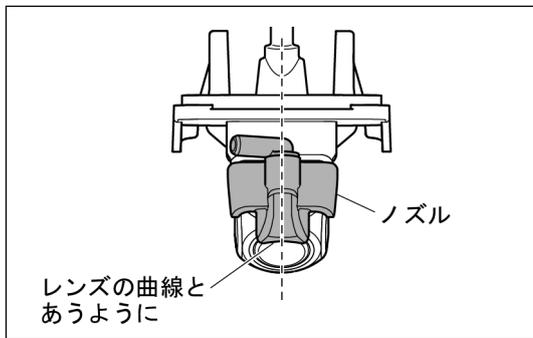
Apply pack primer to (net part).

- After applying the pack primer, allow it to dry sufficiently.



3 .. Use tweezers to attach the double-sided tape to the nozzle.

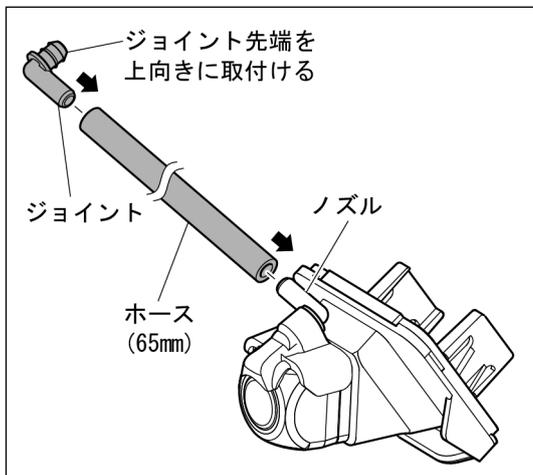
(2 places)



Four .. Peel off the double-sided tape and put the nozzle on the back monitor camera body

Paste in.

- Double-sided tape is sufficiently crimped to the back monitor camera body  
Please let me.

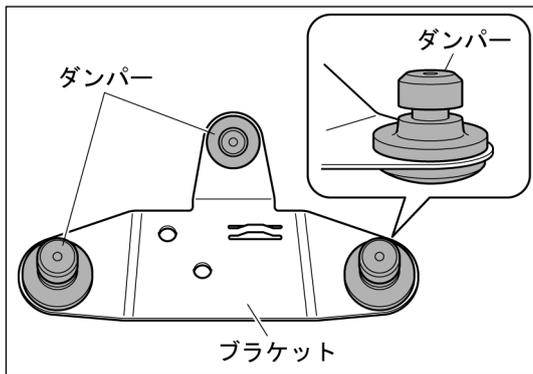


Five .. Cut the hose to a length of 65 mm with scissors.

6 .. Attach the hose to the nozzle side joint and jo to the tip of the opposite hose.

Install the int.

- Make sure the hose is fully inserted.

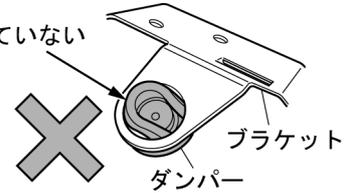


### Air pump

1 .. Attach the dampers (3 places) to the bracket.

- Make sure the damper is securely attached Please.

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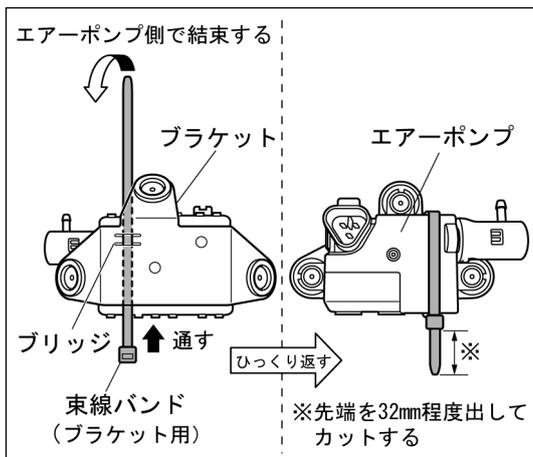
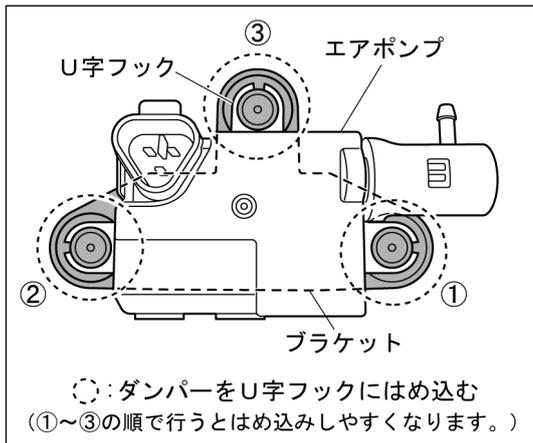
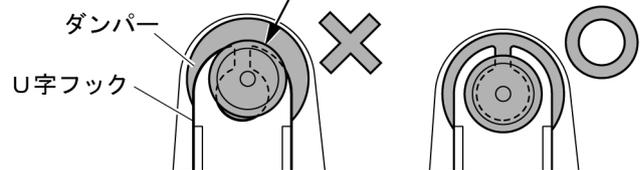
2 .. Attach the bracket to the air pump.



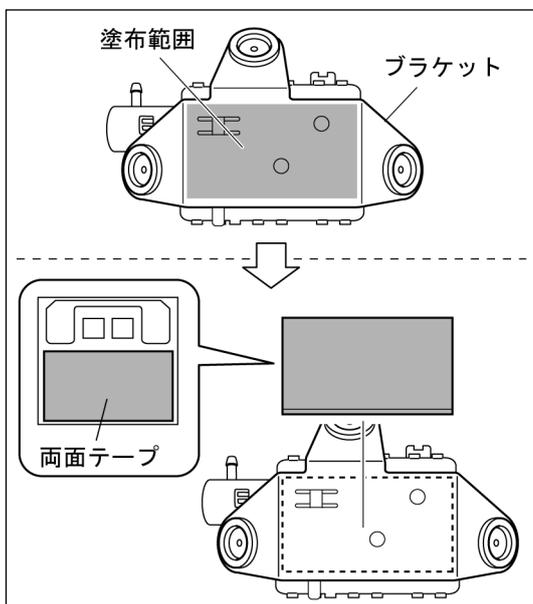
Caution

- Since there is a risk of attachment / detachment, the damper is the U of the air pump. Make sure that it is securely attached to the character hook. Please. (3 places)

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3 .. Pass the cable tie (for bracket) through the bridge of the bracket, Fix with the arc pump.



Four .. Pack plastic in the area (net part) where the double-sided tape of the bracket sticks

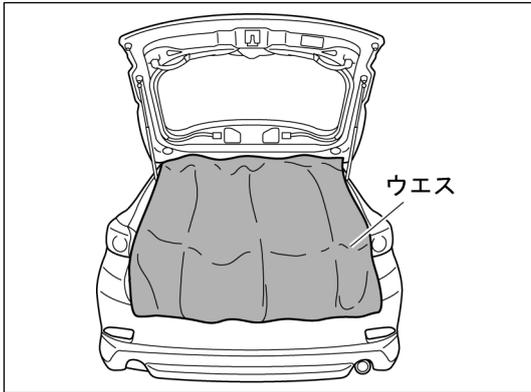
Apply Immer.

- After applying the pack primer, allow it to dry sufficiently.

Five .. Apply double-sided tape to the bracket.

- Firmly crimp the double-sided tape to the bracket.

## 7 .. Installation of back monitor camera cleaner



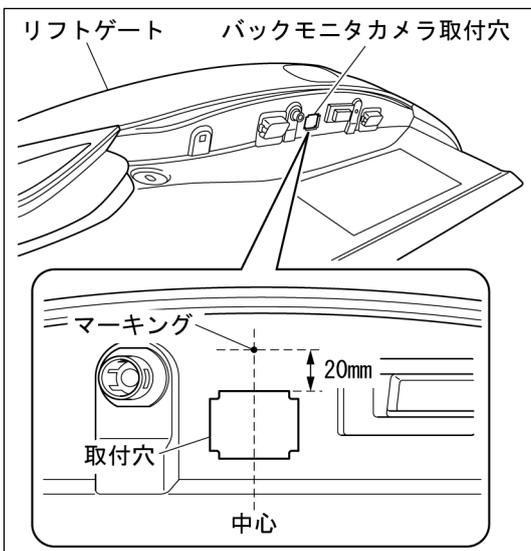
### Drilling

(For other than 360 ° view)

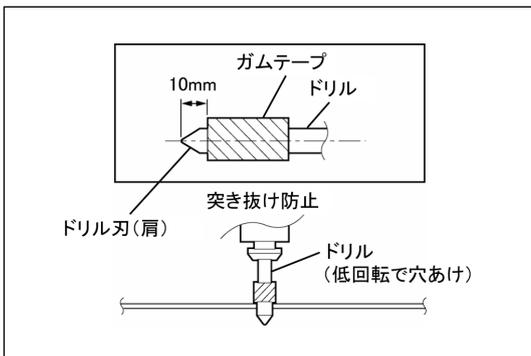
1 .. Trunk loop to prevent chips from entering when drilling

Cover the front of the machine with a waste cloth.

2 .. Securely fix the lift gate in a position where it is easy to work.

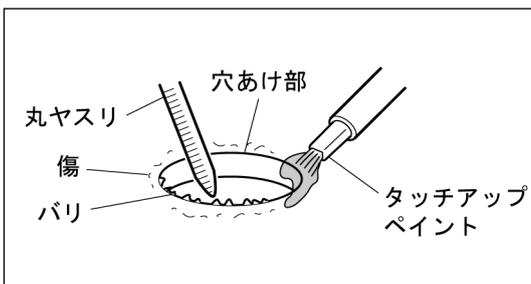


3 .. Check the drilling position and mark with a punch.



Four .. Drill a hole of  $\phi 9.5$  mm in stages with a drill at the marking location.

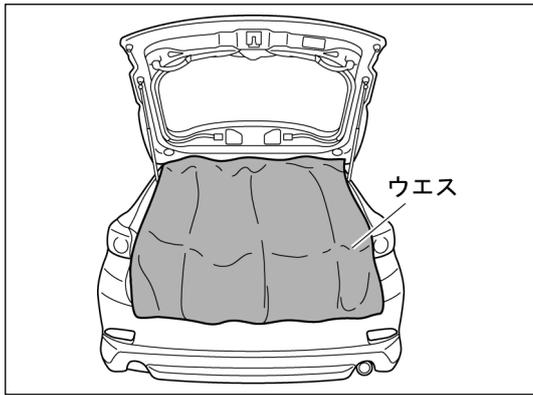
$\phi 9.5$ mm drilling:  $\phi 3$ mm  $\rightarrow$   $\phi 6$ mm  $\rightarrow$   $\phi 9.5$ mm (1 location)



Five .. After drilling, completely remove the burrs on the back side with a file.

6 .. Apply touch-up paint to the holes to prevent rust

Cloth and dry.

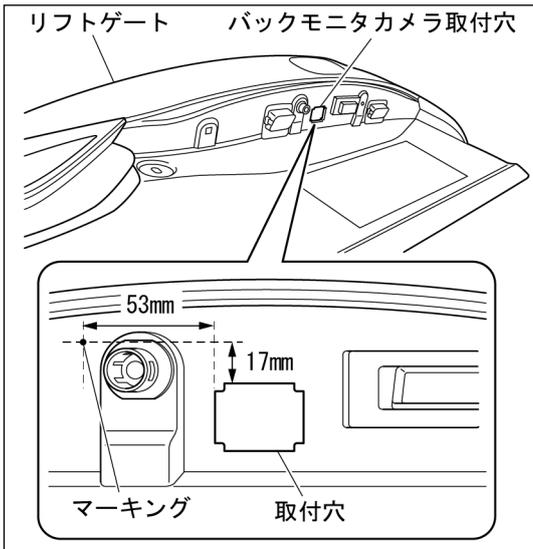


(For 360 ° view)

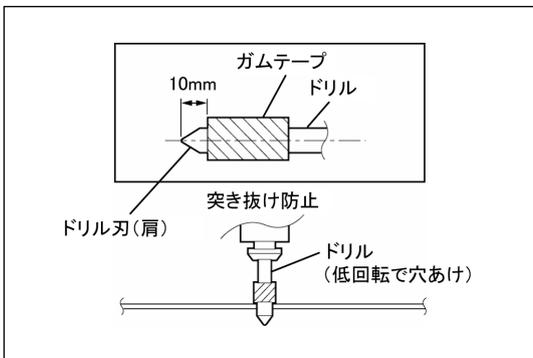
1 .. Trunk loop to prevent chips from entering when drilling

Cover the front of the machine with a waste cloth.

2 .. Securely fix the lift gate in a position where it is easy to work.

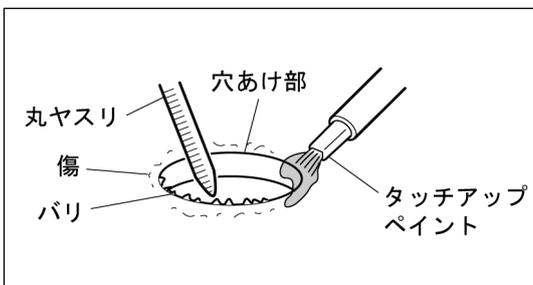


3 .. Check the drilling position and mark with a punch.



Four .. Drill a hole of  $\phi 9.5$  mm in stages with a drill at the marking location.

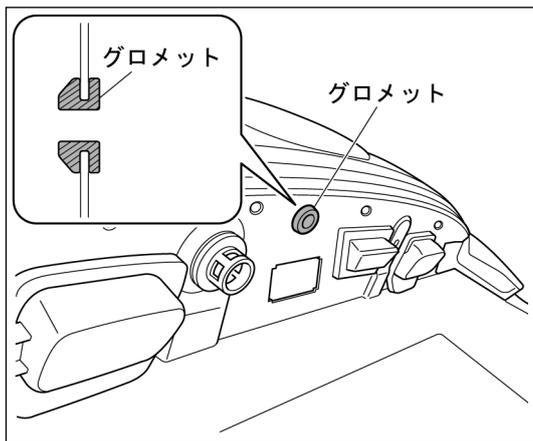
$\phi 9.5$ mm drilling:  $\phi 3$ mm  $\rightarrow$   $\phi 6$ mm  $\rightarrow$   $\phi 9.5$ mm (1 location)



Five .. After drilling, completely remove the burrs on the back side with a file.

6 .. Apply touch-up paint to the holes to prevent rust

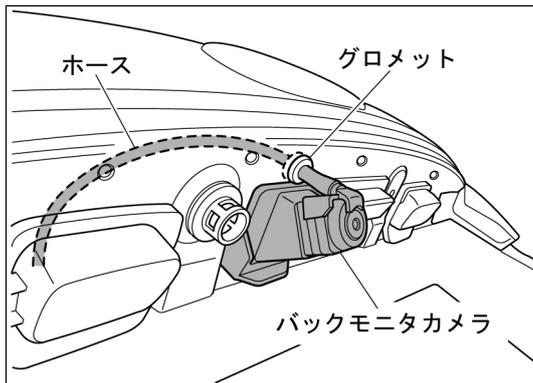
Cloth and dry.



**Installation of back monitor camera**

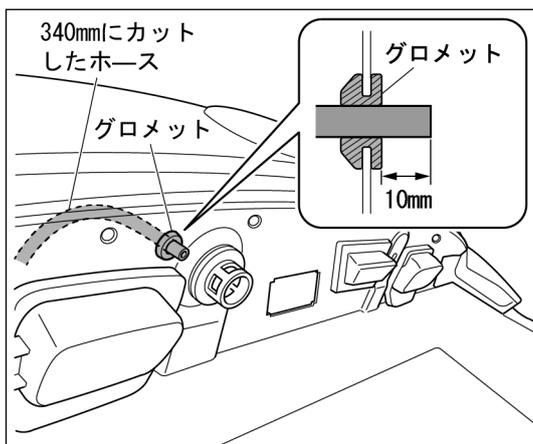
**(For other than 360 ° view)**

1 .. Attach the grommet from the back of the lift gate to the hole you made.



2 .. Pass the tip of the hose attached to the nozzle through the grommet.

3 .. Install the back monitor camera at the lift gate mounting position.

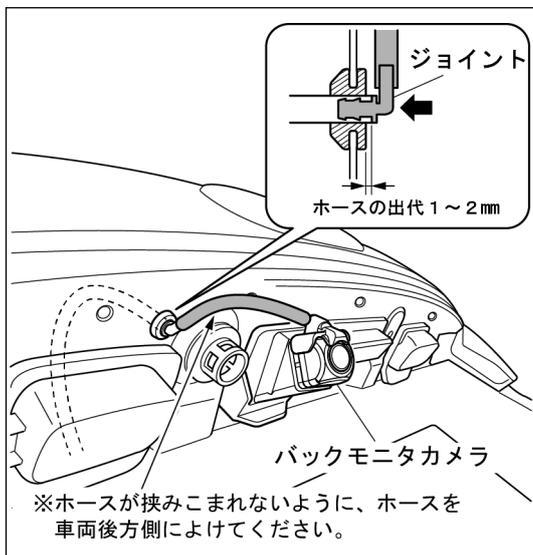


**(For 360 ° view)**

1 .. Attach the grommet to the hole you made.

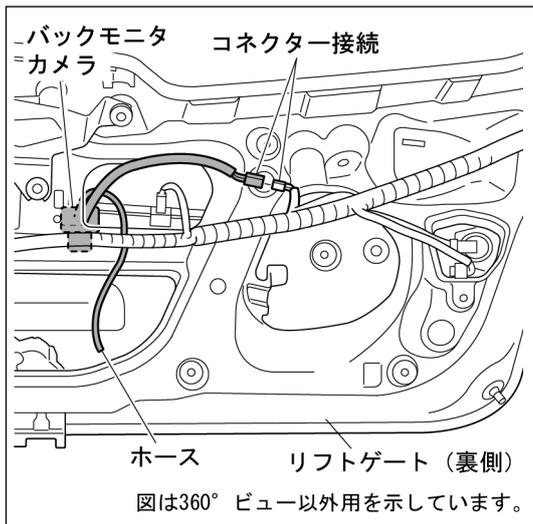
2 .. Hose length 340mm Cut with scissors.

3 .. The tip of the hose is from the back of the lift gate 10mm Gross to the position where it comes out  
Pass the hose through the met.



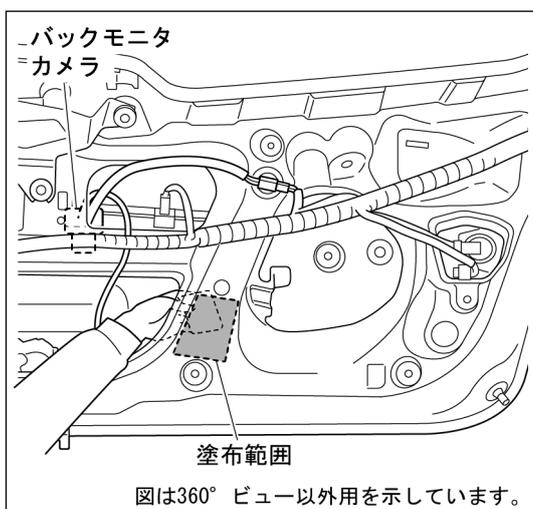
Four .. Install the back monitor camera at the lift gate mounting position.

Five .. Attach the joint part to the tip of the hose passed from the grommet  
I can.



### Connector connection

- 1 .. Connect the connector of the back monitor camera body.

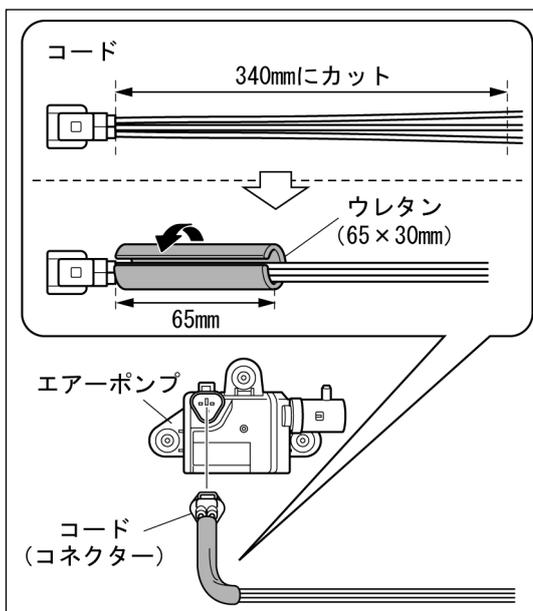


### Installation of air pump

- 1 .. Wipe off the dust in the range shown on the left from the back of the lift gate and pack it.

Apply the primer.

- After applying the pack primer, allow it to dry sufficiently.

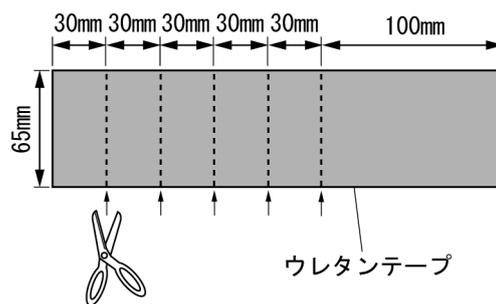


- 2 .. Cut the cord harness length 340mm using nippers

I will.

- 3 .. Urethane tape to 65 mm x 30 mm (5 sheets), 65 mm x 100 mm (1 sheet)

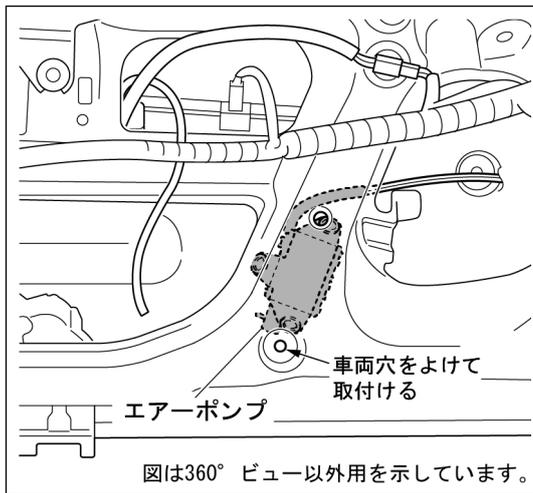
Cut with scissors.



- Four .. Wrap urethane tape (65 mm x 30 mm) around the cord harness

I will.

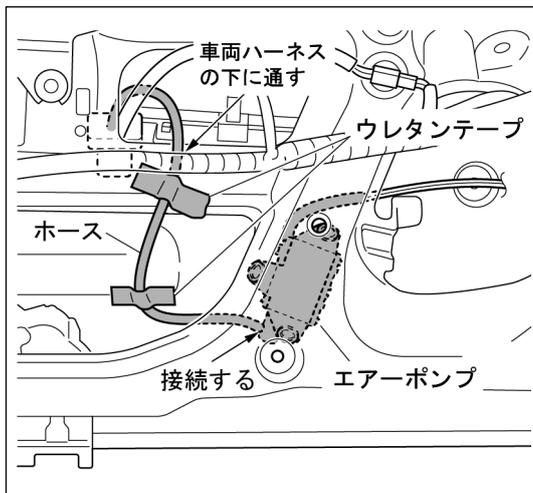
- Five .. Connect the cord connector to the air pump.



6 .. The position where the release paper of the double-sided tape was peeled off and the pack primer was applied.

Install the air pump in.

- Pay attention to the vertical direction of the air pump when installing.  
(Cord connection: upward, hose connection port: downward)
- Make sure that the double-sided tape is sufficiently crimped to the lift gate.  
Please.



### Hose installation

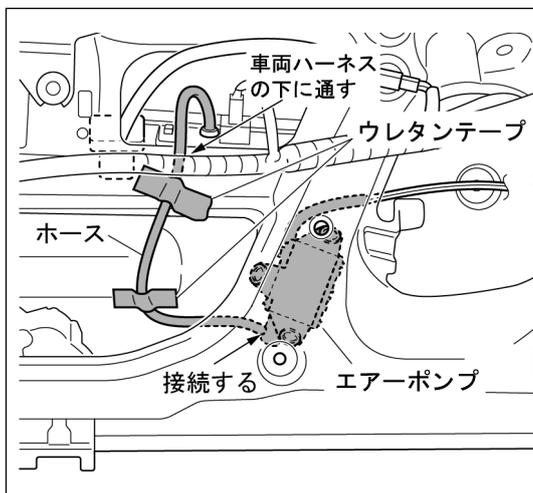
(For other than 360 ° view)

1 .. The tip of the hose on the opposite side through the grommet is the air pump body.

Attach to.

- Make sure the hose is fully inserted.

2 .. Attach urethane tape (2 places: 65 mm x 30 mm) to the hose,  
Secure the hose.



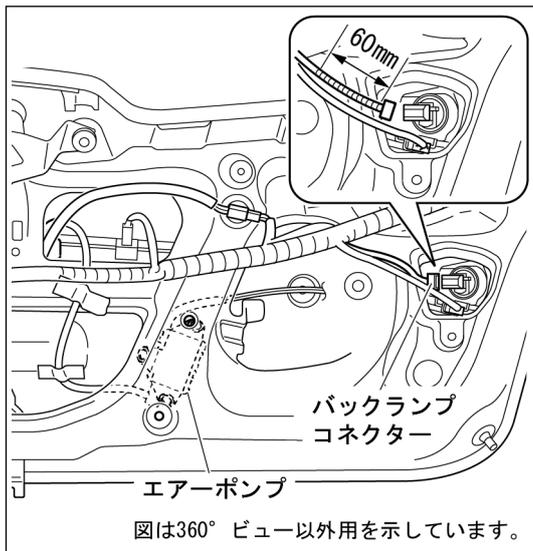
(For 360 ° view)

1 .. The tip of the hose on the opposite side through the grommet is the air pump body.

Attach to.

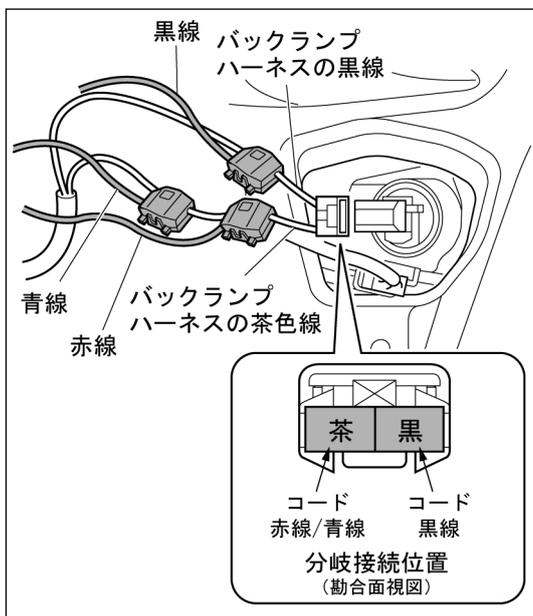
- Make sure the hose is fully inserted.

2 .. Attach urethane tape (2 places: 65 mm x 30 mm) to the hose,  
Secure the hose.



**Code arrangement**

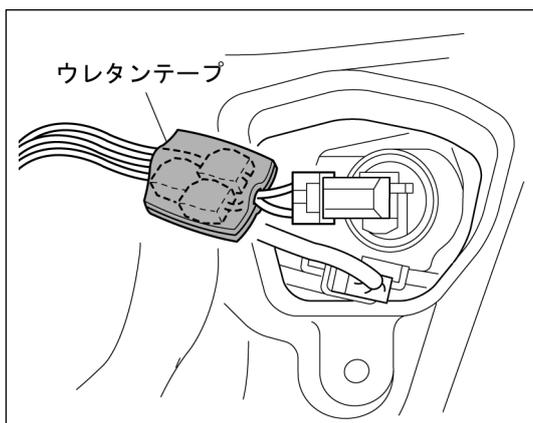
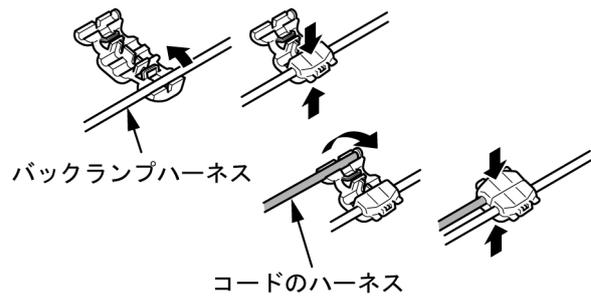
- 1 .. Disconnect the back lamp connector.
- 2 .. Peel off the tube of the back lamp harness by about 60 mm.



- 3 .. Make a branch connection using an electro tap.

- ① Cord harness **Red line and blue line** The back lamp harness **tea Color line** And branch connection.
- ② Cord harness **Black line** The back lamp harness **Black line** And branch Connection.

<How to connect the electro tap>

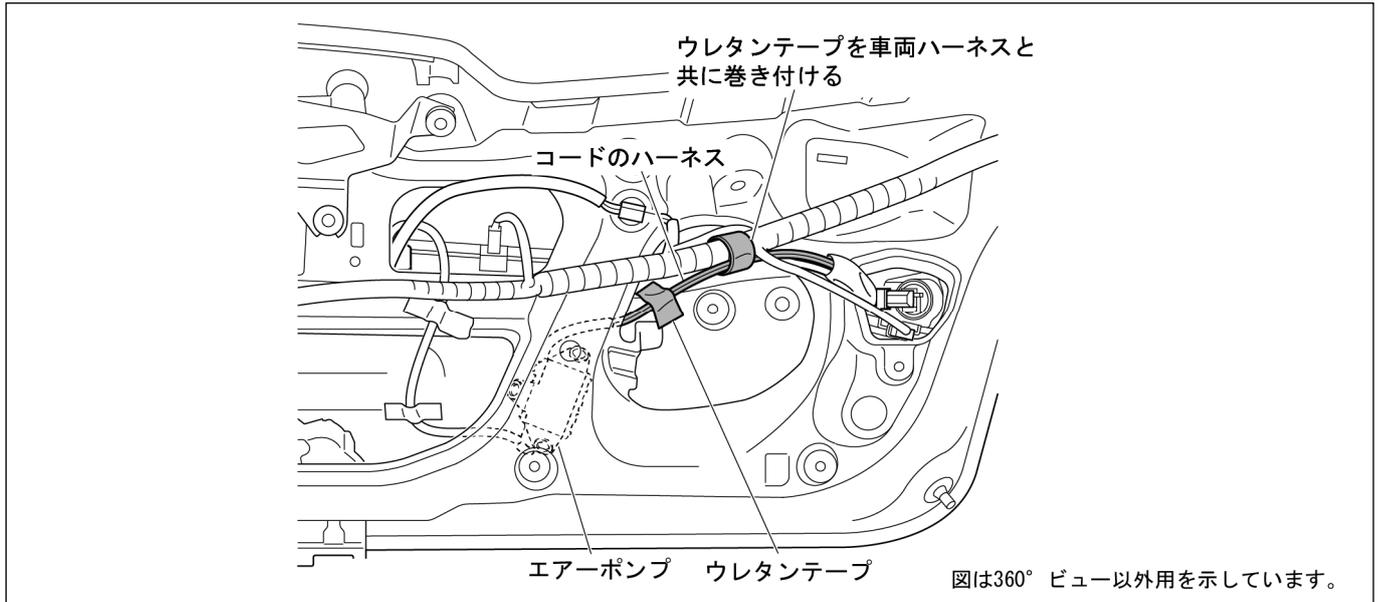


- Four .. Urethane tape with electro tap and vehicle harness cut

Wrap it with a device (65 mm x 100 mm).

- Five .. Connect the back lamp connector to its original position.

6 .. As shown in the figure below, attach the harness to urethane tape (2 locations: 65 mm x 30mm) to fix.



## 8 .. Restoration / inspection

1. Install in the reverse order of "Removing vehicle parts".
2. Restore and inspect vehicle parts and check the installation of supplies.

### ・battery

Install the current sensor connector.

Connect the battery (-) terminal.

**Nut tightening torque: 4.0-6.0 N · m**

After connecting the battery (-) terminal, refer to the maintenance manual or instruction manual and refer to the "Battery (-) cable.

Perform the work required after disconnection / connection.

## 9 .. Operation check

Check the operation of the air pump

- ・ Turn on the power position, put the selector lever / change lever in "R", and check the operation of the air pump.  
Please do.