

ELECTRIC FOLD-IN UNIT REPLACEMENT - Mazda6 (GL)

[REMOVAL PROCEDURE]

1. Remove the power outer mirror according to instructions in Workshop Manual "POWER OUTER MIRROR REMOVAL/INSTALLATION".

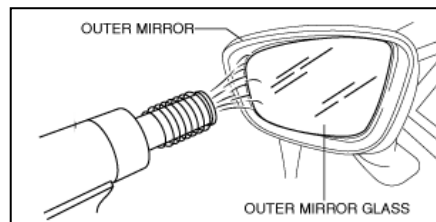
NOTE: Before the removal, ensure the power outer mirror is set in the driving position (not in the fold-in position). The power outer mirror cannot be disassembled if it is set in the fold-in position.

NOTE:

- No need to disconnect the negative battery terminal since the repair is performed with the ignition being turned OFF. Do not turn the ignition ON while the outer mirror assembly is removed.
- Always take care when removing or installing the outer mirror from/to the base according to instructions in Workshop Manual "OUTER MIRROR GLASS INSTALLATION"

Removal

- Removal of the outer mirror glass can be facilitated by warming the back of the glass to approx. 50°C {122°F} to 60°C {140°F} degrees using a hair drier or a heat gun.
- Be careful not to overheat the outer mirror, as temperatures higher than 60°C {140°F} degrees could deform it.



Reference information

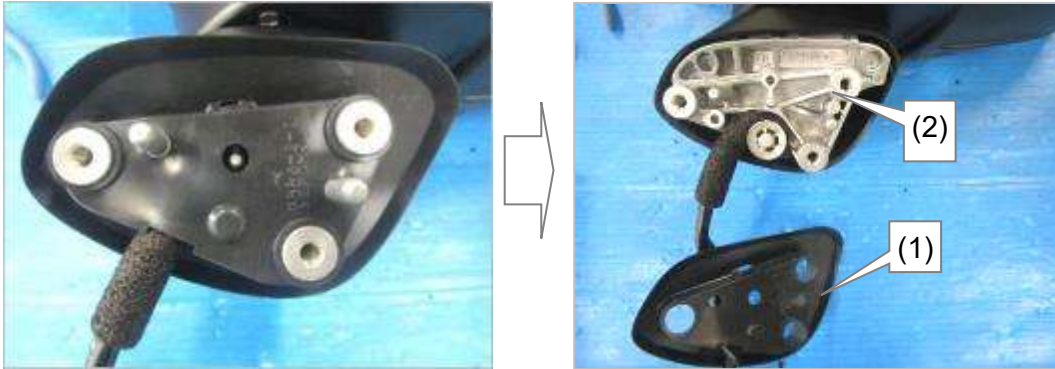
To prevent the breakage during removal of the outer mirror glass, it is recommended to use a suction cup and pull at two areas as shown by arrows.



2. Remove the outer mirror garnish according to instructions in Workshop Manual "OUTER MIRROR GARNISH REMOVAL/INSTALLATION".

NOTE: Below, the procedure is explained using pictures of the LH power outer mirror.
The basic procedure is same for LH and RH power outer mirrors.

3. Remove the seal rubber (1) from the power outer mirror base (2).



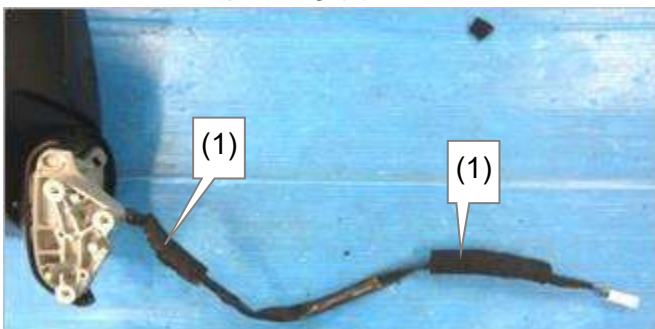
4. Using pliers, remove the push nut (1) from the power outer mirror base.



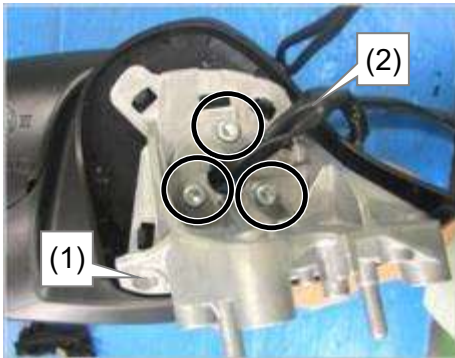
5. Pull out the base cover-lower in the direction of the arrow shown in figure.



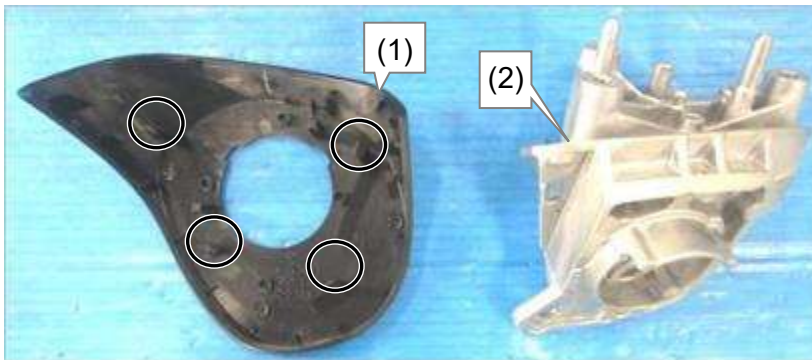
6. Peel off two seal packing (1) from the harness.



7. Remove three screws circled in figure then remove the inner base (1) passing the harness (2) through it.

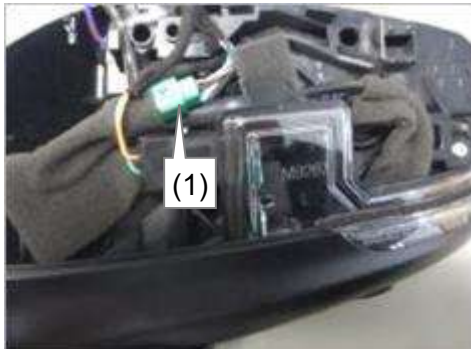


8. Disengage the four tabs circled in figure then remove the base cover-upper (1) from the inner base (2).



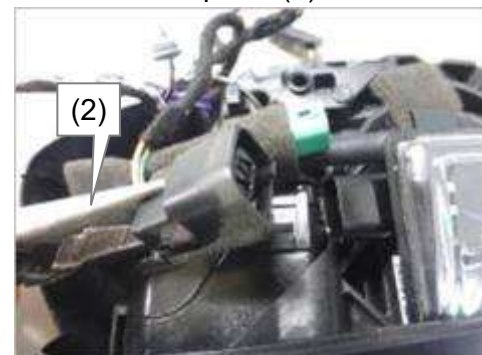
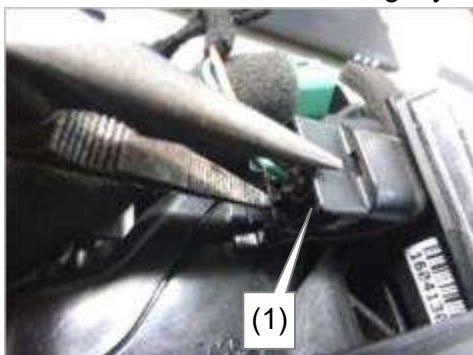
9. Remove mirror harnesses.

- 1) Disconnect the connector (1) (For outer mirror with side camera only)



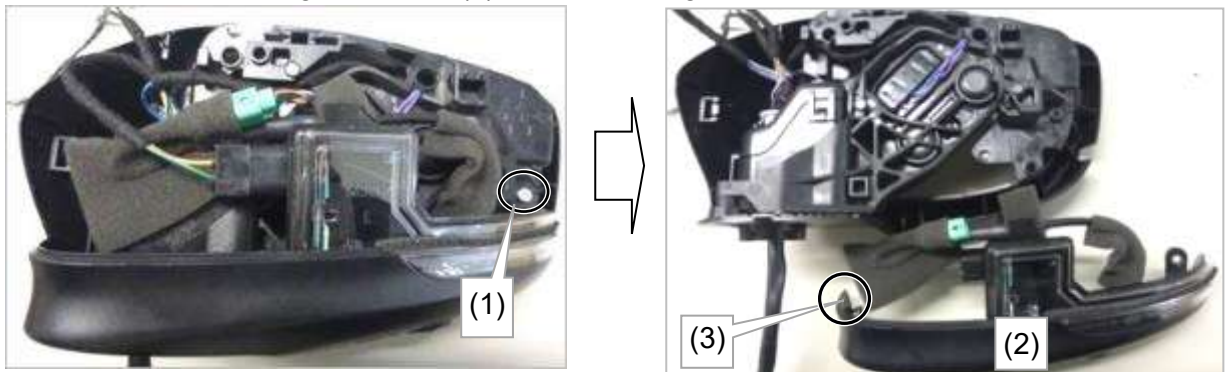
- 2) While pushing the lock, disconnect the connector (1).

NOTE: As it is connected tightly, it may be better to use pliers (2).

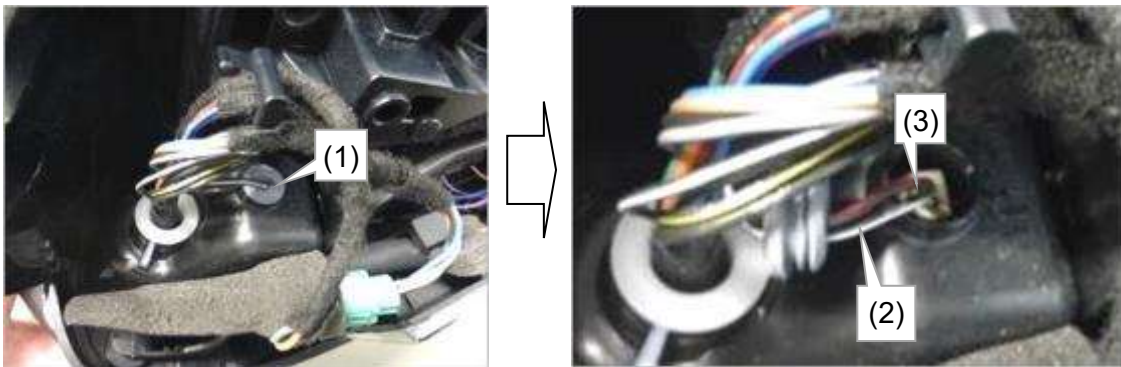


- 3) Remove the screw (1) and remove the lower outer mirror garnish (2).

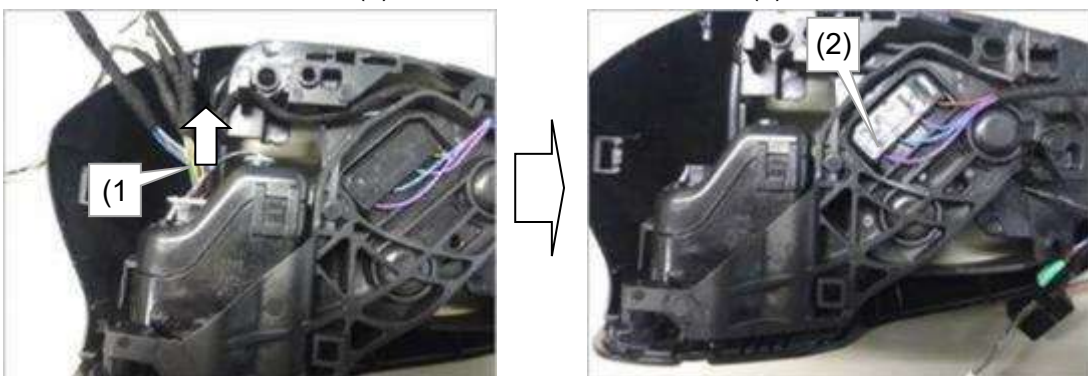
NOTE: DO NOT damage the hook (3) while removing.



- 4) Remove the grommet (1) and pull out the mirror harness (2) while pushing the lock (3) with a small flat-blade screw driver.

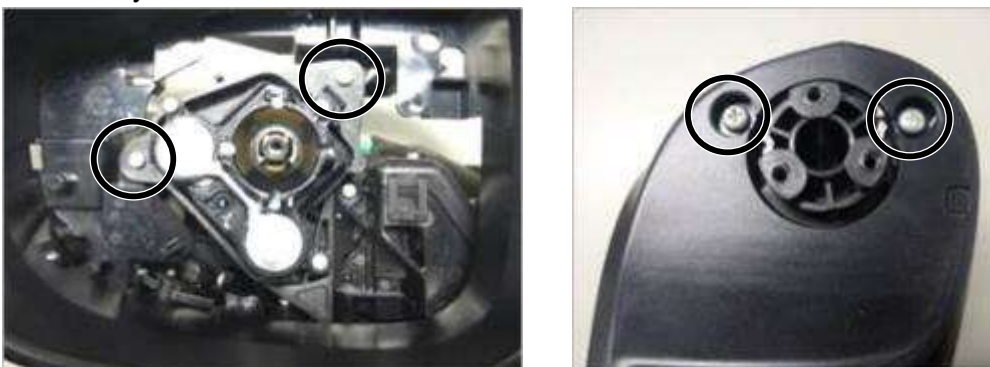


- 5) Pull out the mirror harness (1) and remove the connector (2).

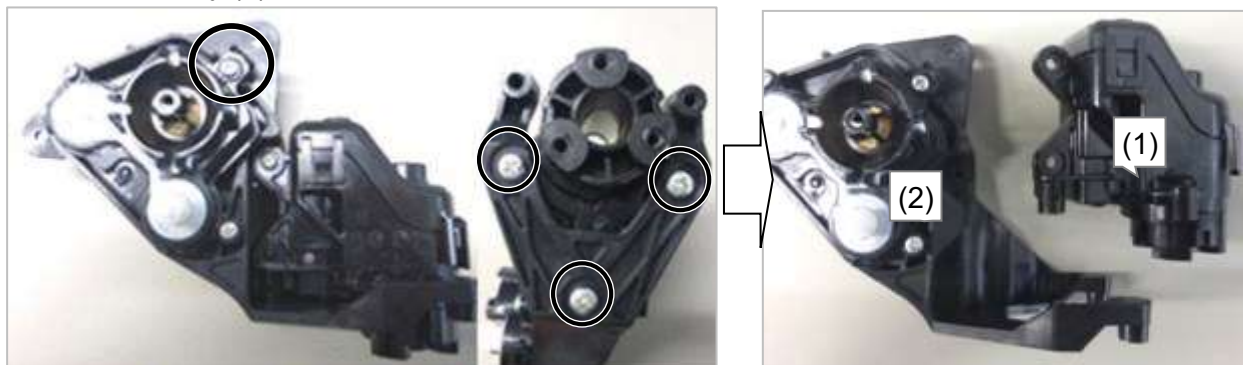


10. Remove the electric fold-in unit from the mirror body.

- 1) Remove screws circled in figures and remove the electric fold-in unit and the frame assembly in one unit.



- 2) Remove screws circled in left two figures then separate the electric fold-in unit (1) from the frame assembly (2).



[TAPE APPLICATION]

11. Judge if tape installation is necessary or not according to the following table and the "SUBJECT VIN & PRODUCTION DATE RANGE".

Repair	VIN range A	VIN range B
Electric fold-in unit replacement	Necessary	Necessary
Tape application	Necessary	Not necessary

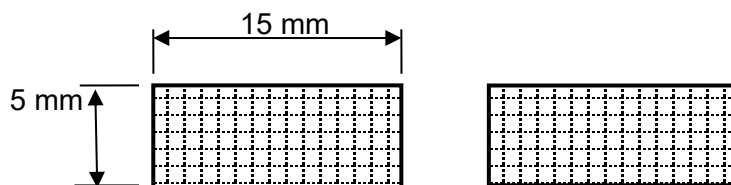
If the subject vehicle belongs to VIN range A, go to next step and perform the tape application.
If the subject vehicle belongs to VIN range B, skip to the step 13 [INSTALLATION PROCEDURE].

12. Apply PVC tape to the boss part of a new electric fold-in unit.

NOTE: Only perform this step in case of **right side** door mirror replacement.

It is not necessary to apply tape when replacing left side door mirror.

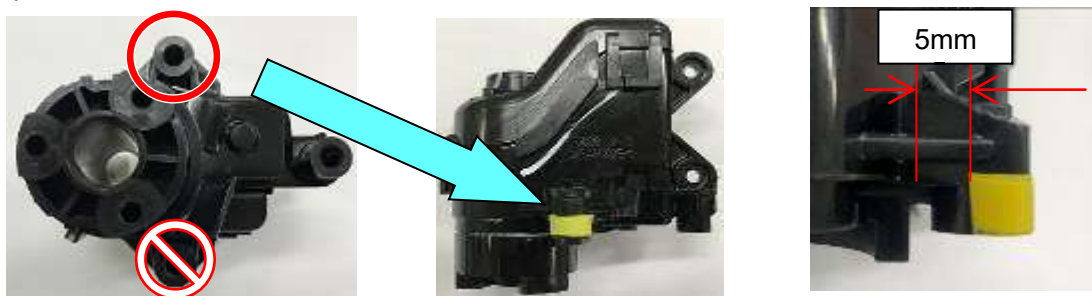
- 1) Cut PVC tape into two 5 mm x 15 mm.(Thickness 0.2mm)



- 2) Apply the two PVC tapes to the boss part of a new electric fold-in unit as shown with red circle.

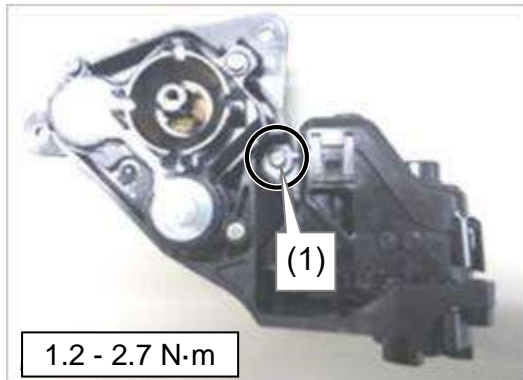
NOTE1: Apply two tapes in layers on the rim of the boss.

NOTE2: It is not necessary to apply tapes on the other boss marked with a prohibition symbol.

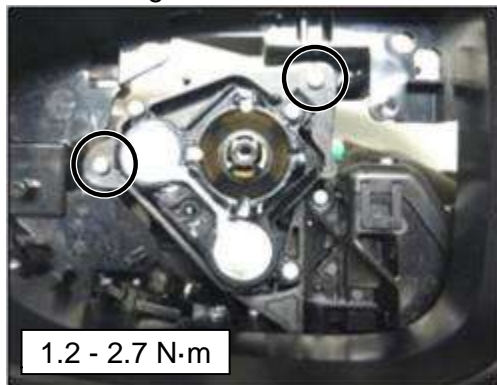


[INSTALLATION PROCEDURE]

13. Install a new electric fold-in unit from KIT to the frame assembly and tighten screws as shown in figures.

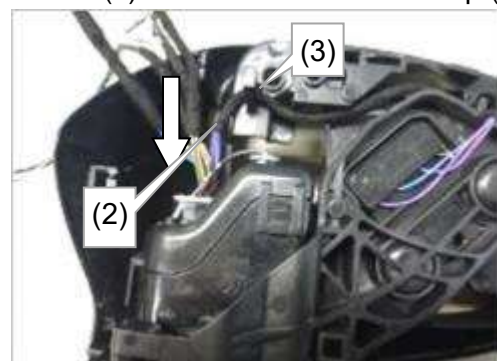
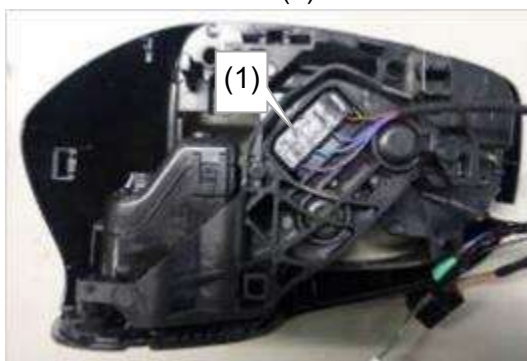


14. Install the electric fold-in unit and frame assembly to the mirror body and tighten screws as shown in figures.

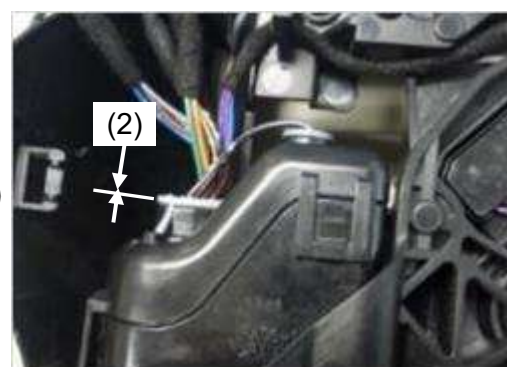
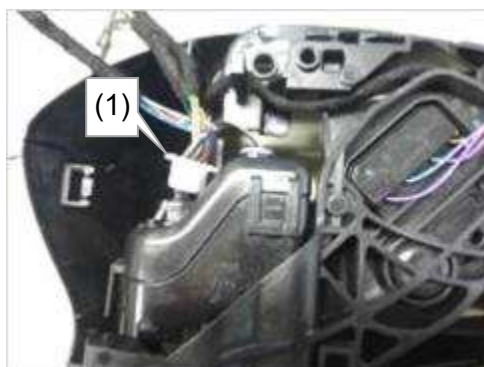


15. Install the mirror harness.

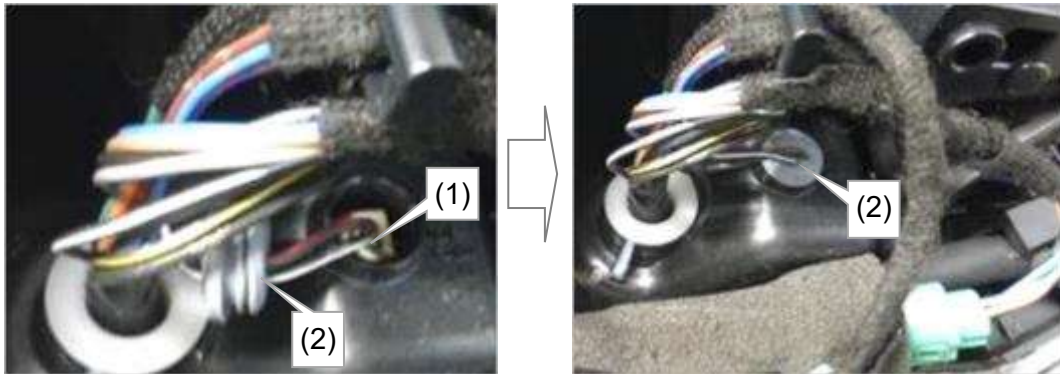
- 1) Install the connector (1) and install the mirror harness (2). Fit the harness in the clip (3).



- 2) Install the harness cap (1) without any clearance (2) remaining between the electric fold-in unit.



- 3) Connect the connector (1) and install the grommet (2).

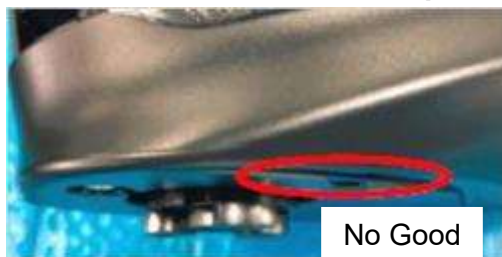


- 4) Install the lower outer mirror garnish engaging the hook (1) and tighten the screw (2).

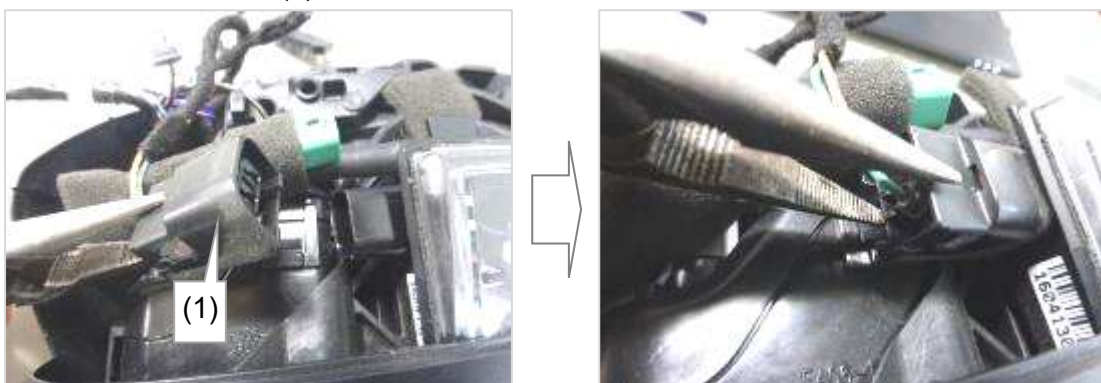


NOTE: Install the lower outer garnish in the correct position.

Samples of garnish installed incorrectly



- 5) Install the connector (1).

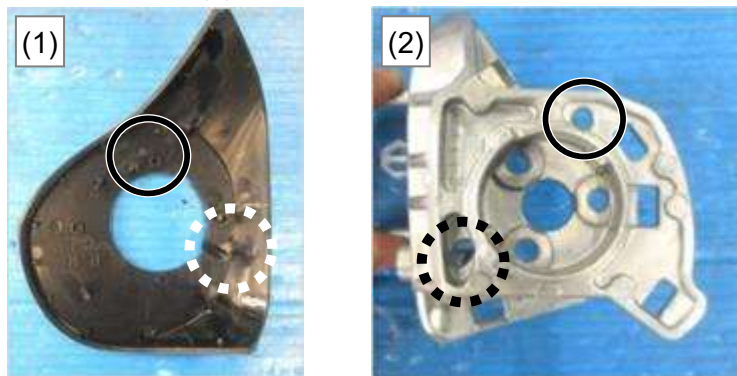


- 6) For vehicles with side camera only: Install the connector.



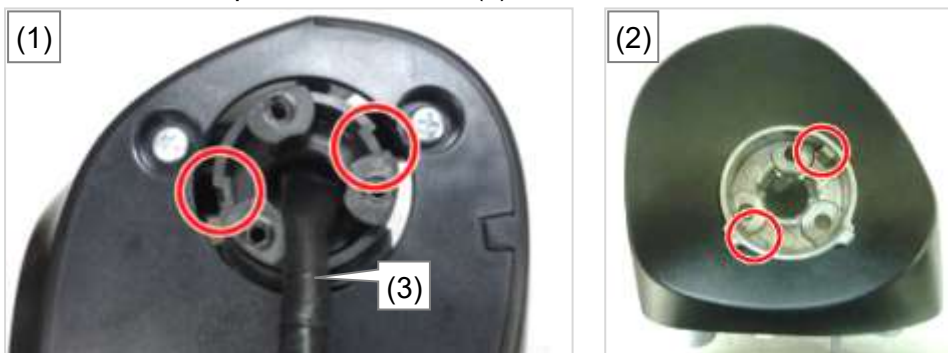
16. Install the inner base.

- 1) While aligning locators circled in figures, install a new base cover-upper (1) from KIT to the inner base (2).

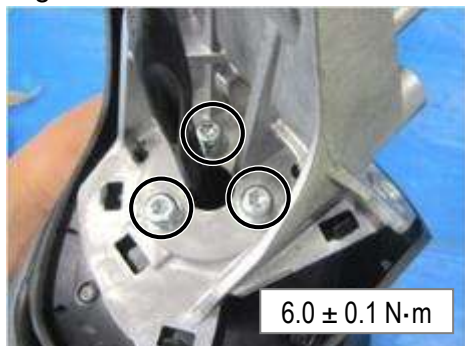


- 2) Install the inner base (1) to the mirror (2) while aligning locators.

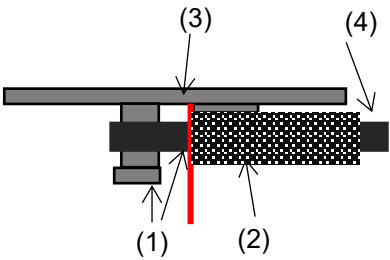
NOTE: DO NOT pinch the harness (3).



- 3) Tighten three screws.

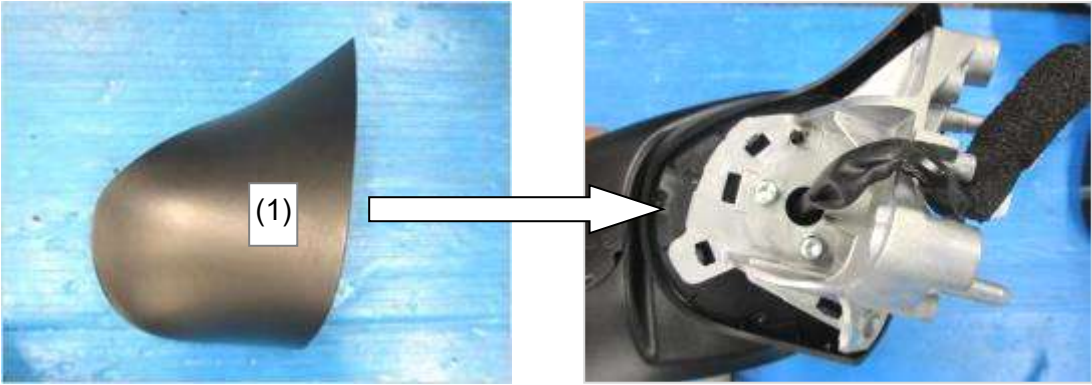


17. Install a new packing (2) from KIT to the position as shown in figure.



1	HOOK for HARNESS
2	PACKING
3	INNER BASE
4	HARNESS

18. Install the base cover-lower (1) from KIT to the inner base without clearance.

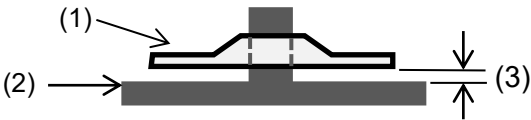


19. Confirming that the harness is correctly routed, install the push nut (1) from KIT.

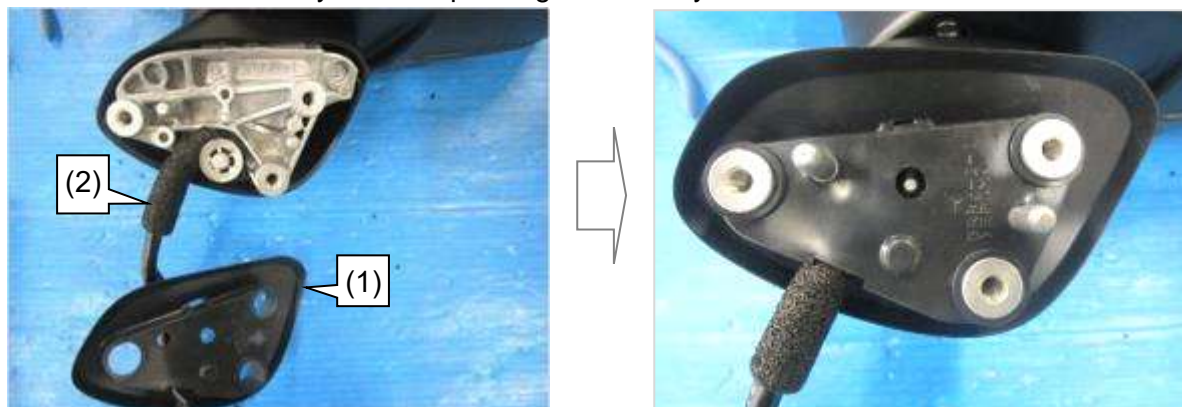


NOTE: Using an appropriate size of box socket, push the push nut (1) in until seated to the inner base (2) without clearance (3).

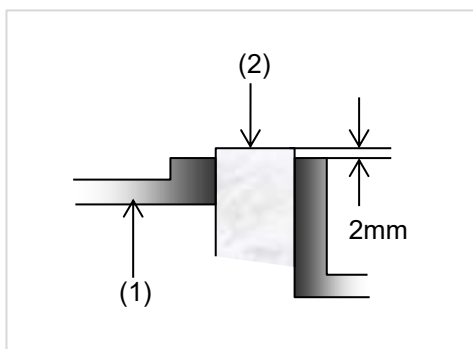
-No Good with clearance-



20. Install the seal rubber (1) and pull out the harness (2) through the slit as shown in the figure. The slit shall be closed by the seal packing without any clearance.

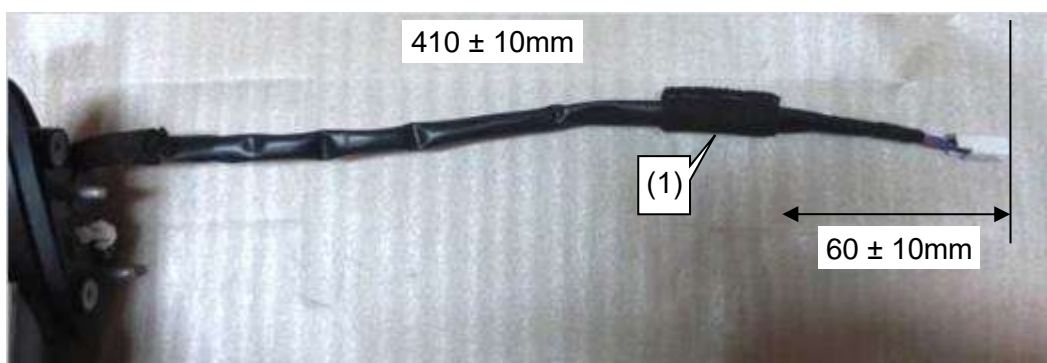


NOTE: If the seal rubber (1) is correctly installed, the three bosses (2) on the inner base are 2mm projected from the seal rubber.



21. Install a new packing (1) from KIT to the position of harness shown in figure.

NOTE: Confirm that the length of harness is $410 \pm 10\text{mm}$.

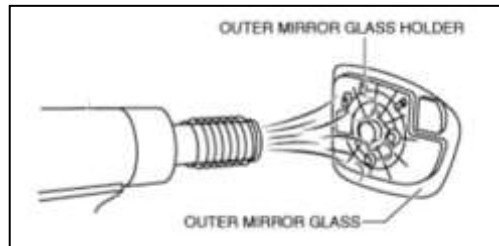


22. Install the outer mirror garnish according to instructions in Workshop Manual "OUTER MIRROR GARNISH REMOVAL/INSTALLATION".
23. Install the power outer mirror according to instructions in Workshop Manual "POWER OUTER MIRROR REMOVAL/INSTALLATION".

NOTE: Always take care when removing or installing the outer mirror from/to the base according to instructions in Workshop Manual "OUTER MIRROR GLASS INSTALLATION".

Installation

- Installation of the outer mirror glass can be facilitated by heating the outer mirror glass holder to approx. 50°C {122°F} to 60°C {140°F} degrees using a hair drier or a heat gun.
- Be careful not to overheat the outer mirror, as temperatures higher than 60°C {140°F} degrees could deform it.



24. Repeat from the beginning of the repair procedure if necessary to repair the other side mirror.
25. For power outer mirror with side camera, perform 360°view monitor system aiming according to instructions in Workshop Manual "360°VIEW MONITOR SYSTEM AIMING".