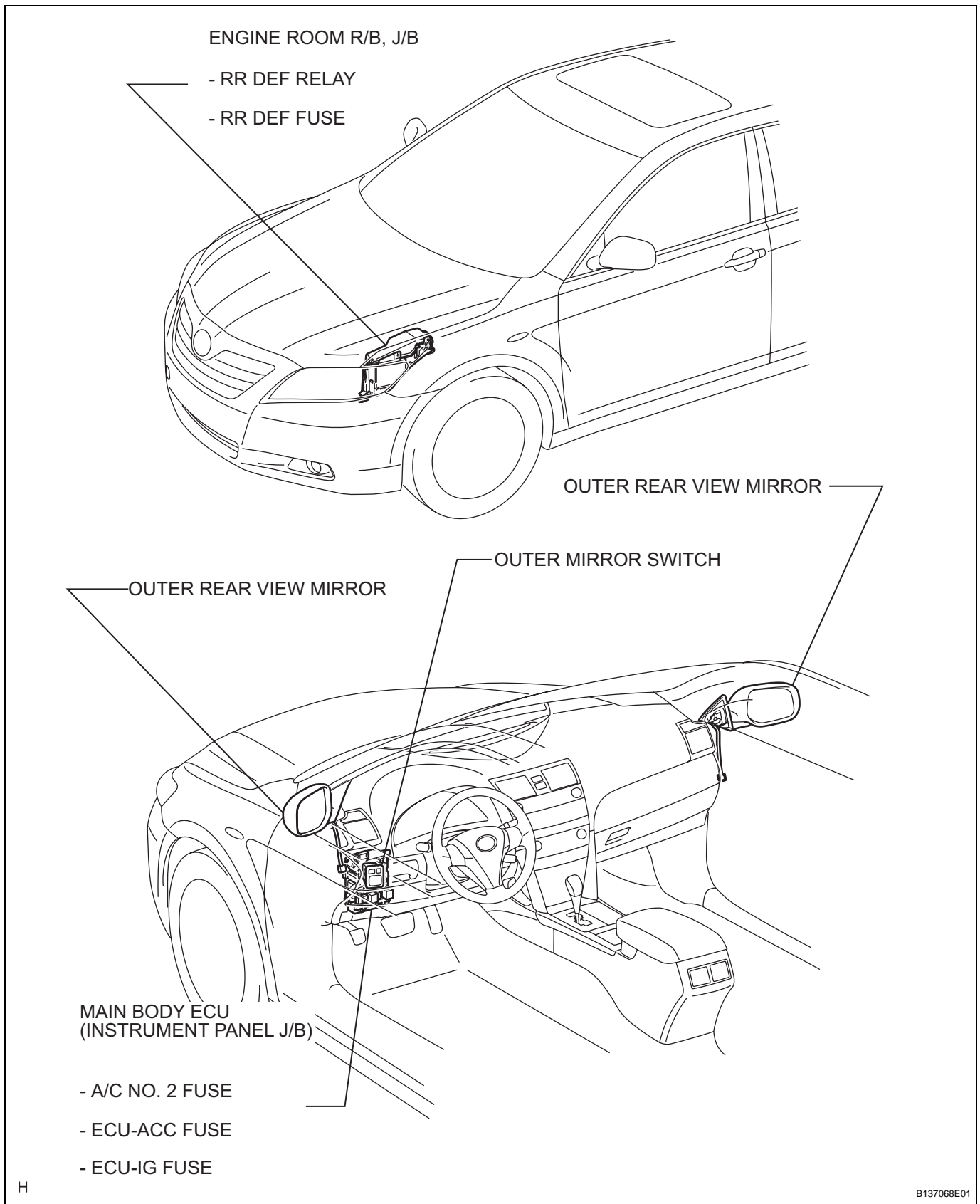


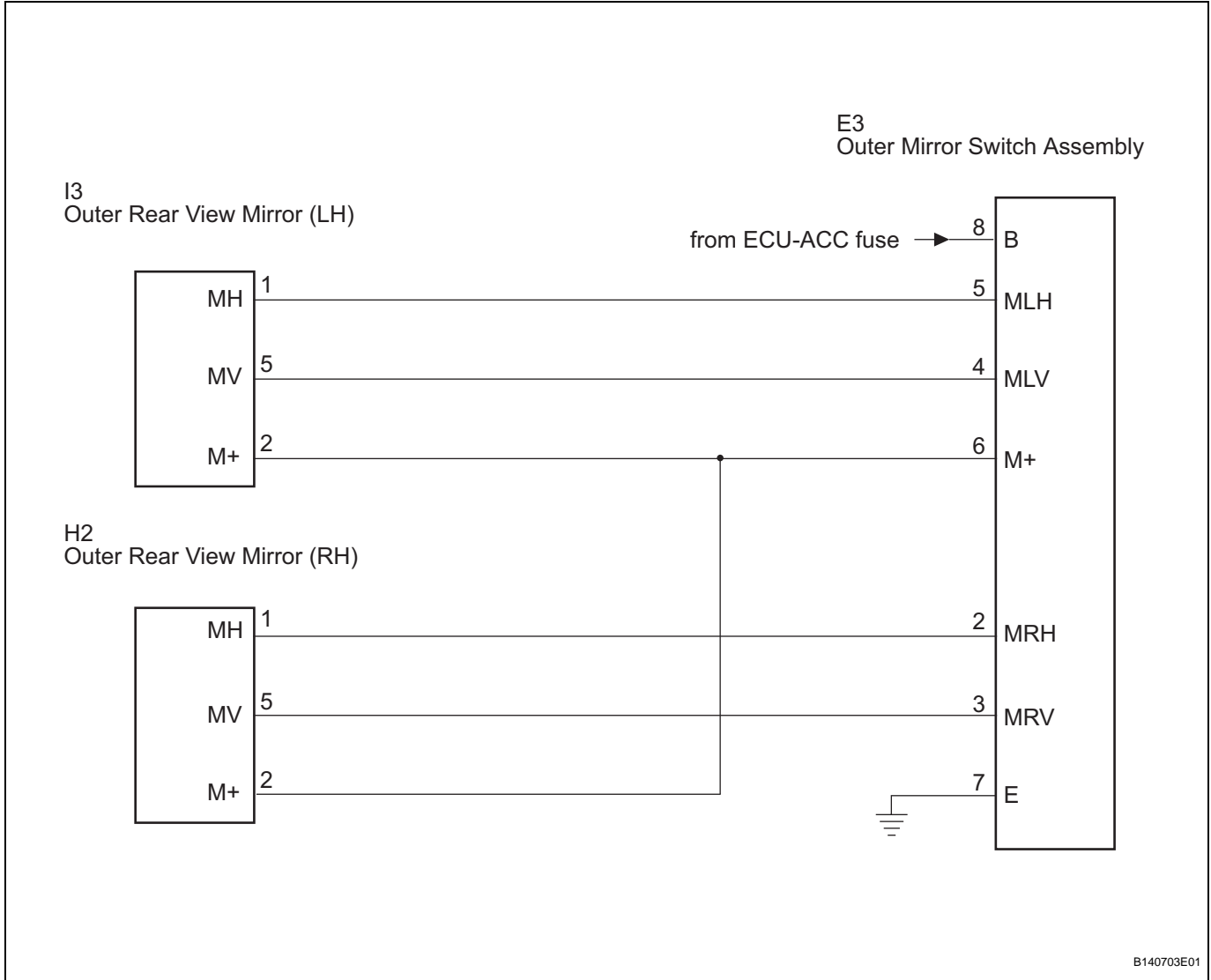
# POWER MIRROR CONTROL SYSTEM

## PARTS LOCATION

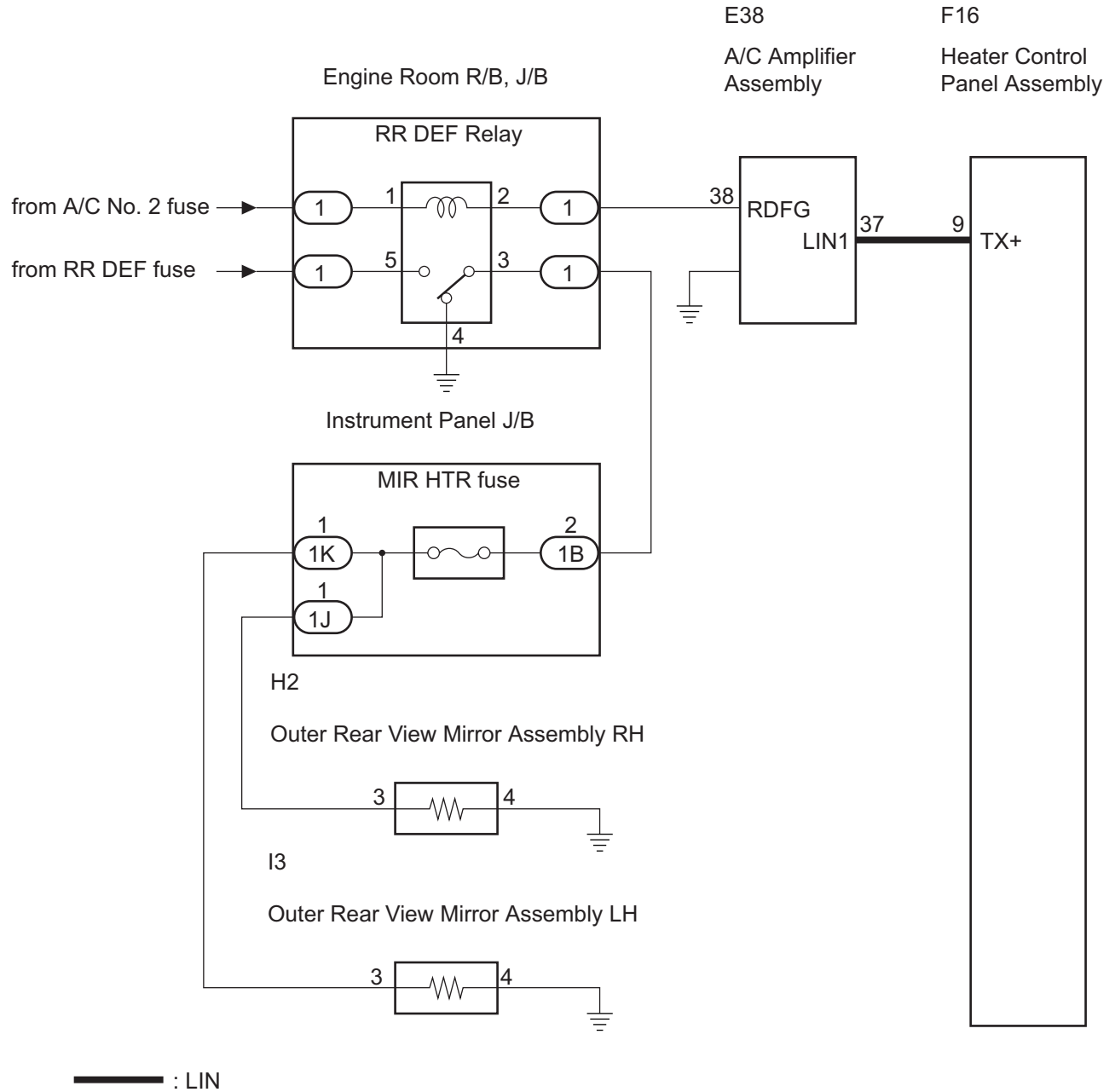


# SYSTEM DIAGRAM

MI



Mirror Heater Operation:



MI

## PROBLEM SYMPTOMS TABLE

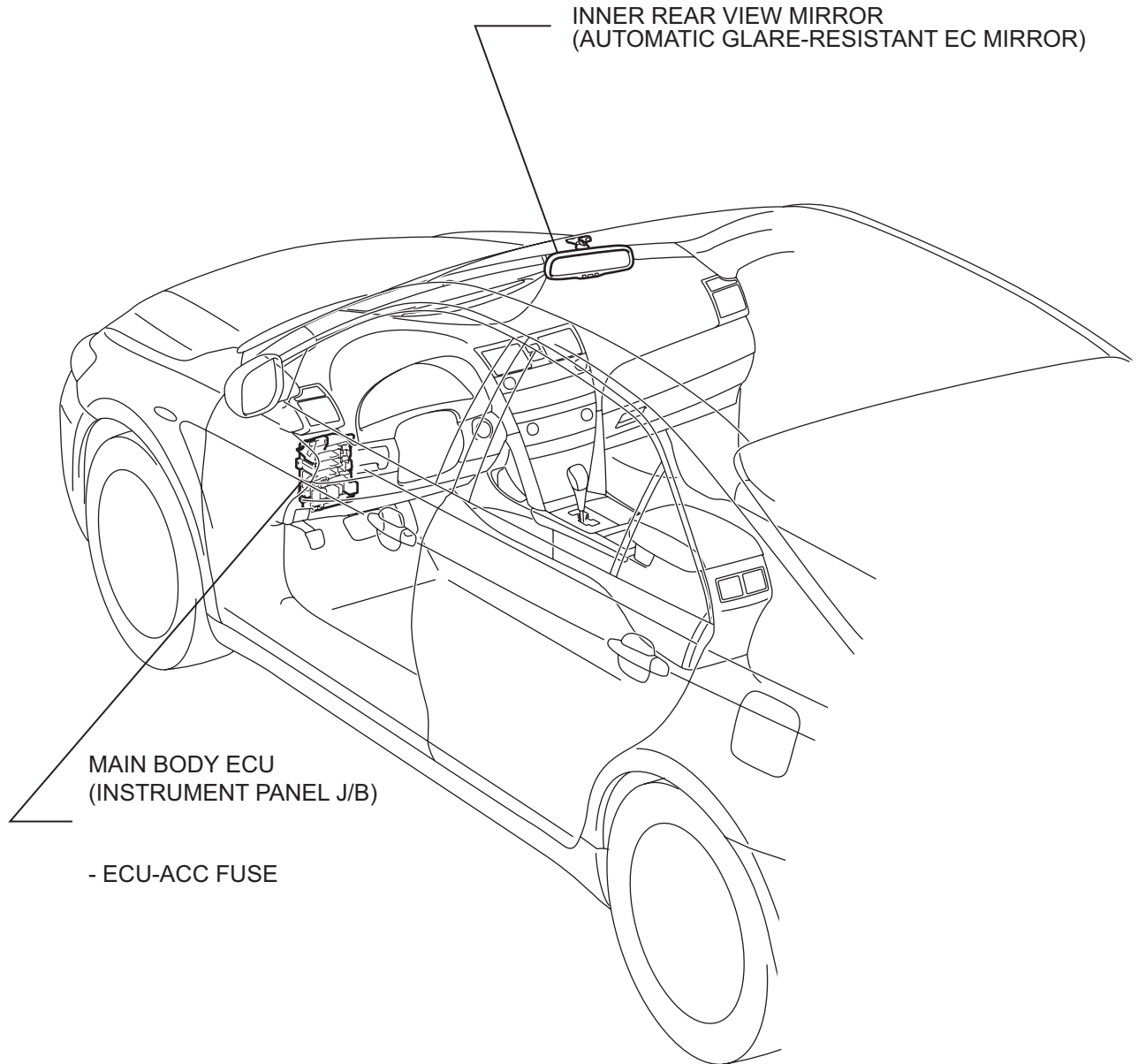
### Power Mirror Control System

Symptom	Suspected area	See page
Power mirrors cannot be adjusted manually	1. ECU-ACC fuse	-
	2. Outer mirror switch	<a href="#">MI-22</a>
	3. Outer rear view mirror LH/RH	<a href="#">MI-12</a>
	4. Wire harness	-
Mirror heater does not operate	1. MIR HTR, A/C No. 2, RR DEF fuses	-
	2. Heater control panel assembly	-
	3. A/C amplifier assembly	-
	4. RR DEF relay	-
	5. Outer rear view mirror LH/RH	<a href="#">MI-12</a>
	6. Wire harness	-

MI

# INNER REAR VIEW MIRROR

## PARTS LOCATION

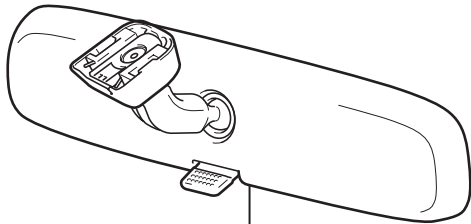


MI

# COMPONENTS

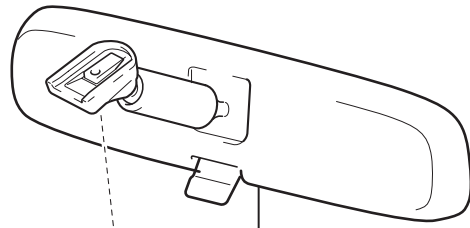
without EC Mirror:

TMC made:



INNER REAR VIEW MIRROR ASSEMBLY

TMMK made:



1.8 (18, 16 in.\*lbf)

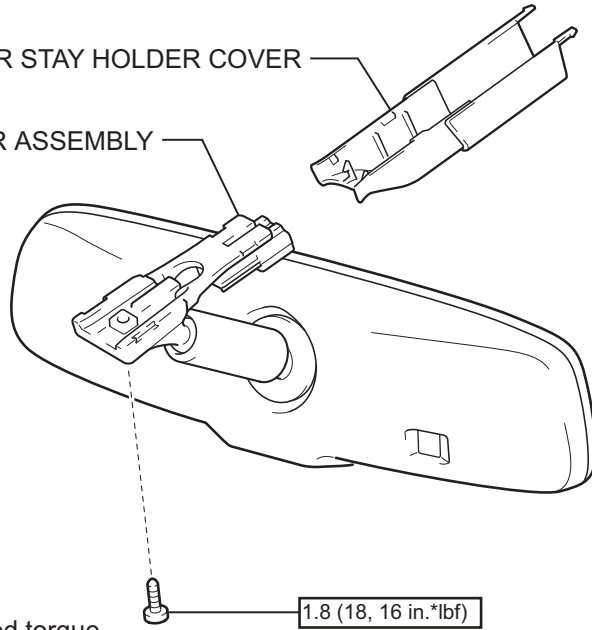
INNER REAR VIEW MIRROR ASSEMBLY

**N\*m (kgf\*cm, ft.\*lbf)**: Specified torque

with EC Mirror:

INNER REAR VIEW MIRROR STAY HOLDER COVER

INNER REAR VIEW MIRROR ASSEMBLY



$\boxed{\text{N*m (kgf*cm, ft.*lbf)}}$ : Specified torque

$\boxed{1.8 (18, 16 \text{ in.*lbf})}$

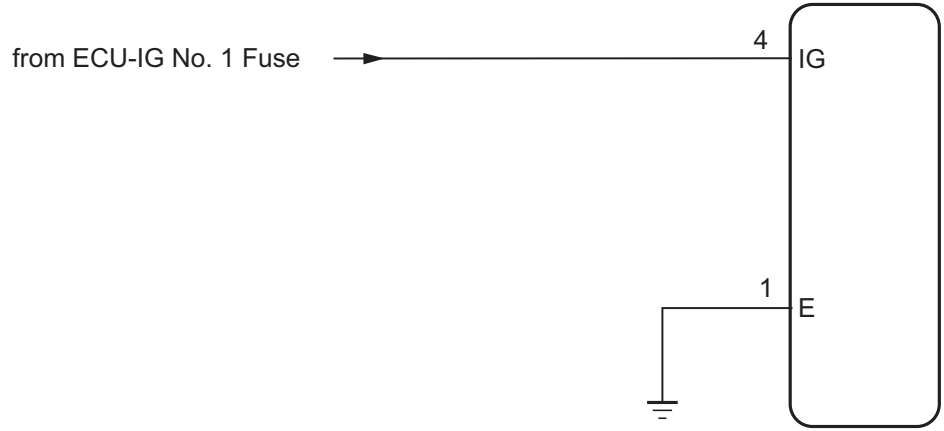
P

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MI

# SYSTEM DIAGRAM

Inner Rear View Mirror Assembly  
(Auto Glare-resistant EC Mirror)



MI

C

B111209E20



---

## CALIBRATION

### 1. SELECT COMPASS DISPLAY MODE

- (a) The COMP switch allows you to select the Display or Non-display mode of the compass.

### 2. SET ZONE

- (a) Deviation between the "magnetic north" and "actual north" differs depending on the location. Therefore, adjustment of the magnetism is required. Since the magnetic condition differs depending on the area where the vehicle is used, it is necessary for each user to set the zone (Refer to Compass Zone Map). The zone setting can be changed using the COMP switch of the inner mirror.

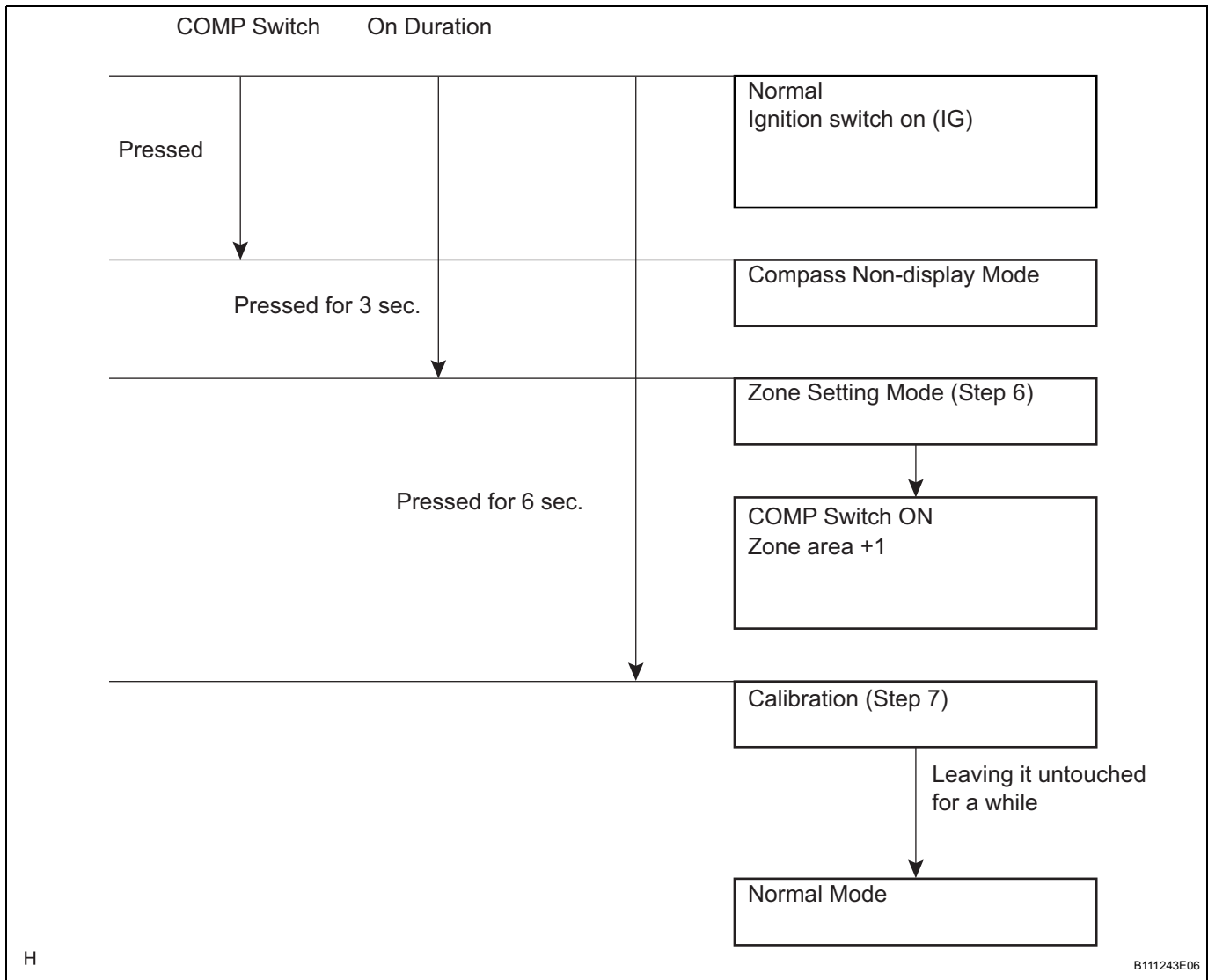
### 3. PERFORM CALIBRATION

- (a) Because each vehicle has its own magnetic field, calibration should be performed for each vehicle. This compass function is used when storing the record of the vehicle's magnetic field.

### 4. WHEN COMPASS IS MAGNETIZED

- (a) A compass could be magnetized during shipping by vessels or freight cars. Therefore, make sure to perform calibration and ensure that calibration is performed properly before delivery. If it cannot be done (cannot be completed in spite of driving around several times), it may be caused by magnetization. Demagnetize the vehicle using a demagnetizer and perform calibration again.

## 5. SET COMPASS



## 6. ZONE SETTING MODE

- (a) Pressing the COMP switch for 3 seconds in the normal mode will activate the zone setting mode. A number (1 to 15) is displayed on the compass display.

**NOTICE:**

**In the initial state, "8" is displayed.**

- (b) The displayed number increases by 1 every time the COMP switch is pressed. Referring to the map, check the number for the area where the vehicle will be used and set the zone number.
- (c) Leave it untouched for several seconds after setting and check that the compass display shows an azimuthal direction (N, NE, E, SE, S, SW, W or NW) or "C".

## 7. CALIBRATION SETTING MODE

- (a) Pressing the COMP switch for 6 seconds in the normal mode will activate the calibration setting mode.

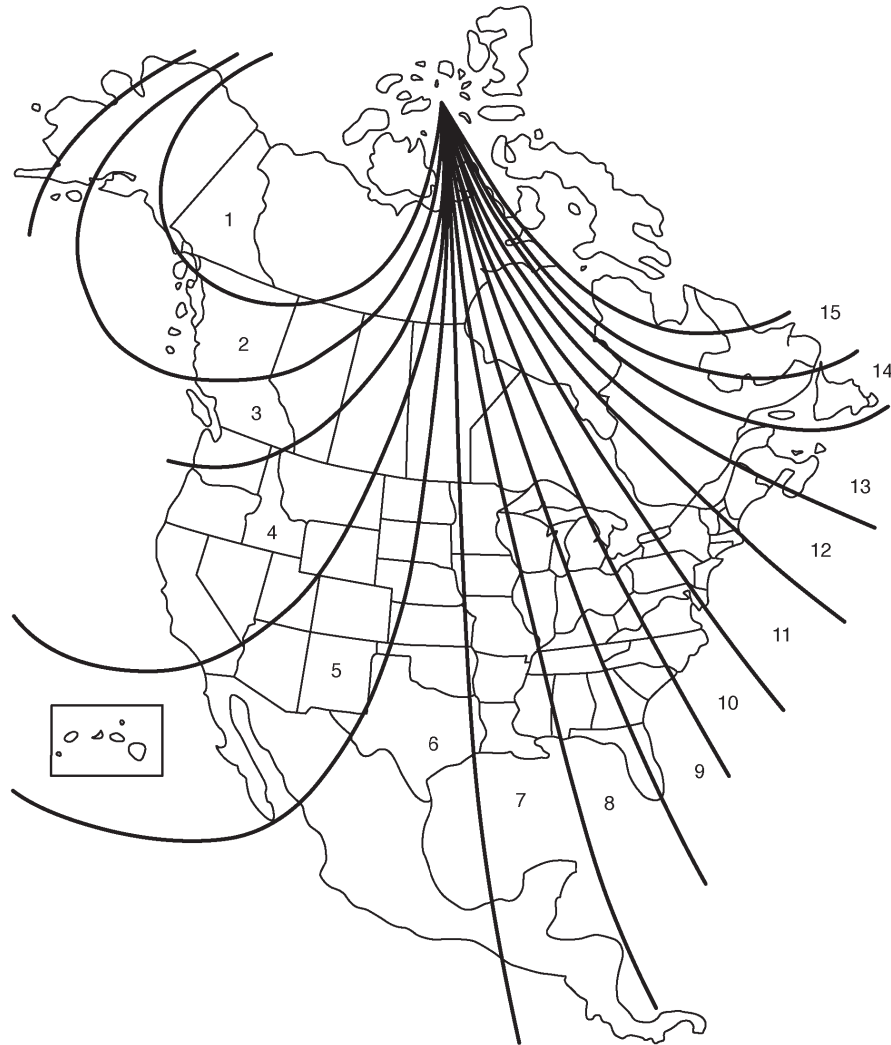
- (b) Drive the vehicle at a slow speed of 8 km/h (5 mph) or less in the circular direction.
- (c) Driving around the circle 1 to 3 times will display the azimuthal direction on the display, completing the calibration.

**NOTICE:**

After the calibration is completed, it is not necessary to perform the above procedures unless the magnetic field strength is drastically changed. If this happens, the azimuthal display will be changed to "C".

MI

Zone Setting Map:



T

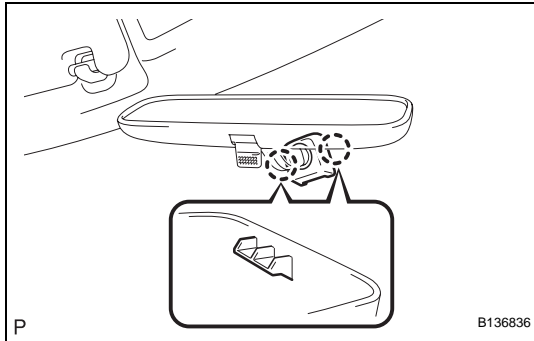
B057087E01

## PROBLEM SYMPTOMS TABLE

### AUTOMATIC GLARE-RESISTANT EC MIRROR

Symptom	Suspected area	See page
Auto glare-resistant EC mirror does not operate	1. ECU-IG No. 1 fuse	-
	2. Inner rear view mirror	<a href="#">MI-12</a>
	3. Wire harness	-

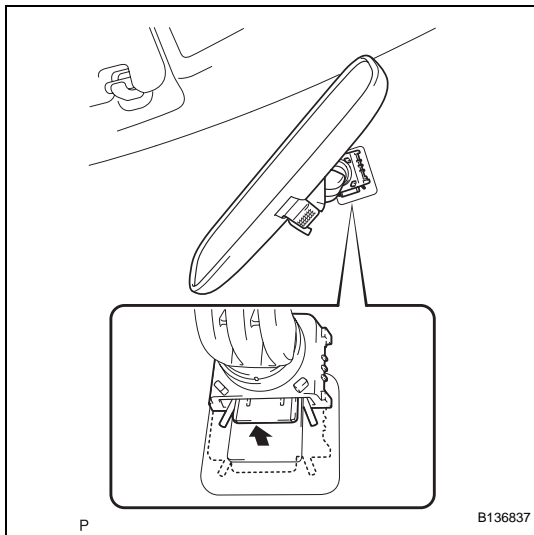
MI



## REMOVAL

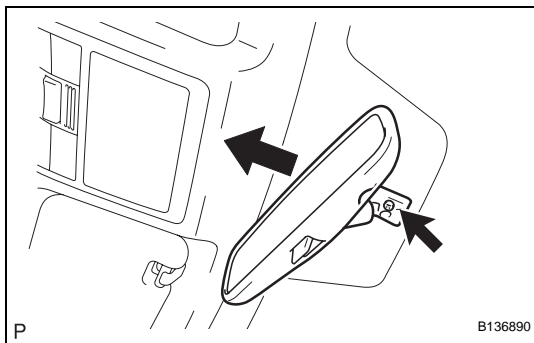
### 1. REMOVE INNER REAR VIEW MIRROR ASSEMBLY (for TMC Made without EC Mirror)

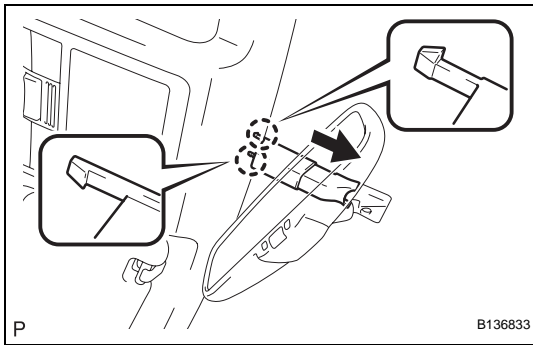
- (a) Disengage the 2 claws and the cover.
- (b) Pull the lever in the direction indicated by the arrow shown in the illustration and slide the inner rear view mirror assembly upward to remove it.



### 2. REMOVE INNER REAR VIEW MIRROR ASSEMBLY (for TMMK Made without EC Mirror)

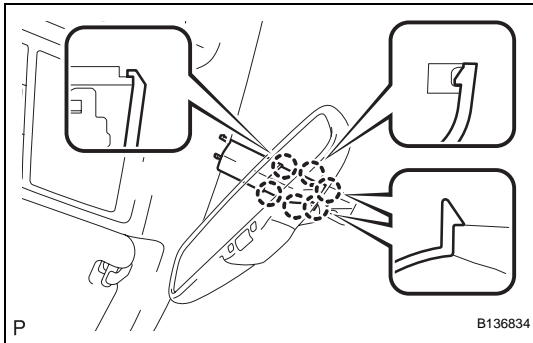
- (a) Using a "torx" socket wrench (T20), remove the screw.
- (b) Slide the inner rear view mirror assembly in the direction indicated by the arrow shown in the illustration to remove it.



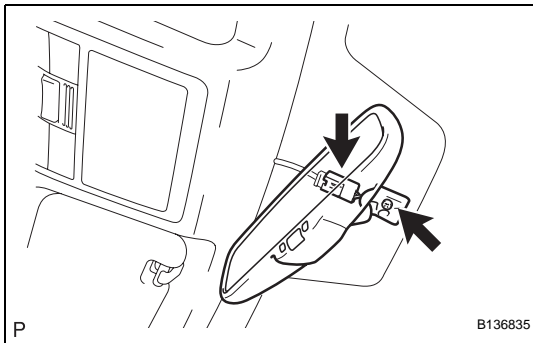


### 3. REMOVE INNER REAR VIEW MIRROR STAY HOLDER COVER (w/ EC Mirror)

- (a) Disengage the 2 claws and slide the inner rear view mirror stay holder cover as shown in the illustration.



- (b) Disengage the 6 claws and remove the inner rear view mirror stay holder cover.



### 4. REMOVE INNER REAR VIEW MIRROR ASSEMBLY (w/ EC Mirror)

- (a) Disconnect the connector.
- (b) Using a "torx" socket wrench (T20), remove the screw and the inner rear view mirror.

## INSPECTION

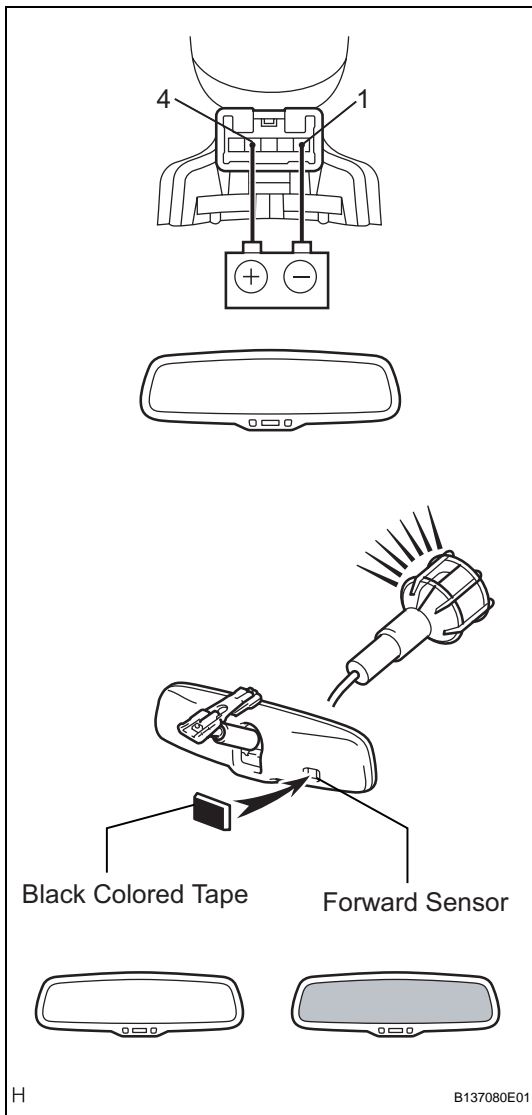
### 1. INSPECT INNER REAR VIEW MIRROR ASSEMBLY

- (a) Inspect operation of the electrochromic inner mirror.
- (1) Connect the positive (+) lead from the battery to terminal 4 and the negative (-) lead to terminal 1.
  - (2) Attach black colored tape to the forward sensor to prevent it from sensing.
  - (3) Light up the mirror with an electric light, and check that the mirror surface changes from bright to dark.

#### Standard:

**Mirror surface changes from bright to dark.**

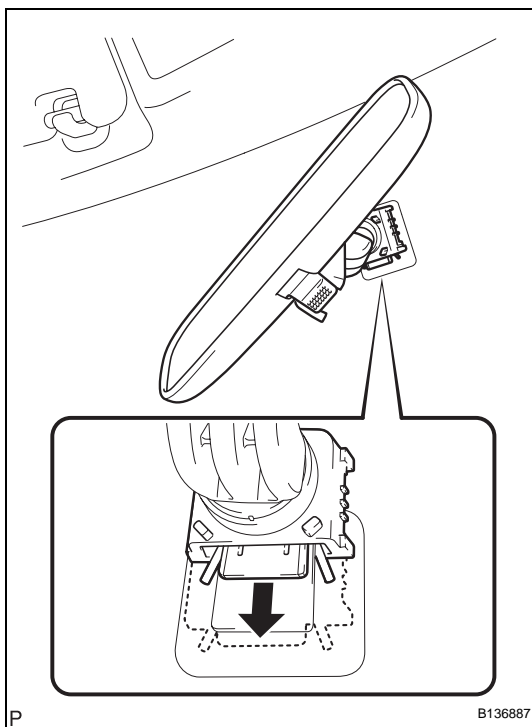
If the result is not as specified, replace the mirror assembly.

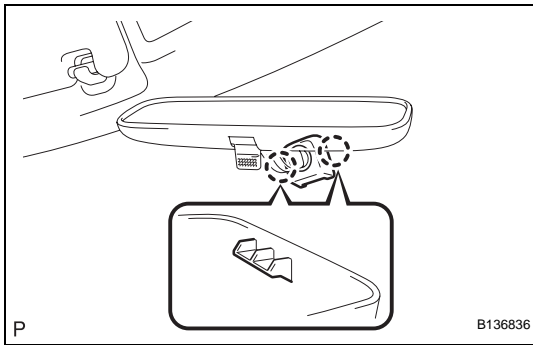


## INSTALLATION

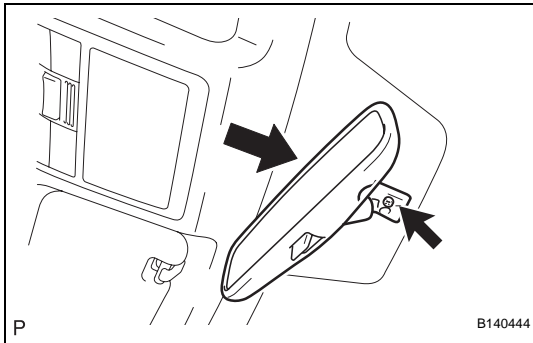
### 1. INSTALL INNER REAR VIEW MIRROR ASSEMBLY (for TMC Made without EC Mirror)

- (a) Slide the inner rear view mirror assembly in the direction indicated by the arrow shown in the illustration to install it.





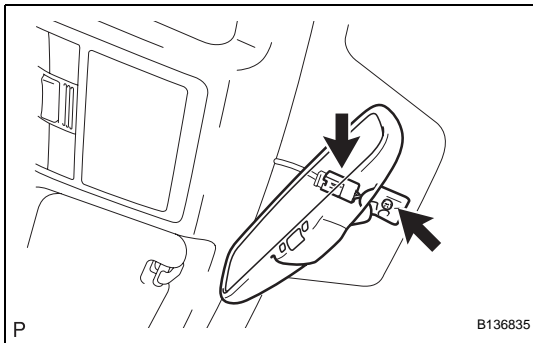
(b) Engage the 2 claws and install the cover.



## 2. INSTALL INNER REAR VIEW MIRROR ASSEMBLY (for TMMK Made without EC Mirror)

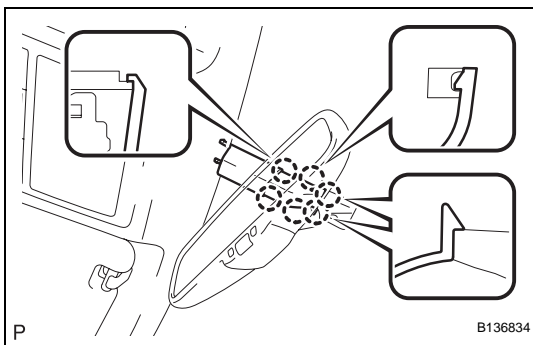
- (a) Slide the inner rear view mirror assembly in the direction indicated by the arrow shown in the illustration to install it.
- (b) Using a "torx" socket wrench (T20), install the screw.

**Torque: 1.8 N\*m (18 kgf\*cm, 16 in.\*lbf)**



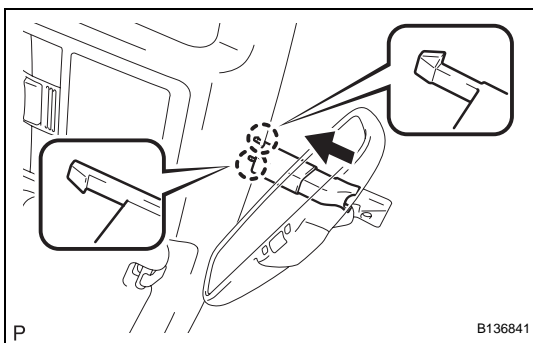
## 3. INSTALL INNER REAR VIEW MIRROR ASSEMBLY (w/ EC Mirror)

- (a) Using a "torx" socket wrench (T20), install the inner rear view mirror with the screw.
- Torque: 1.8 N\*m (18 kgf\*cm, 16 in.\*lbf)**
- (b) Connect the connector.



## 4. INSTALL INNER REAR VIEW MIRROR STAY HOLDER COVER (w/ EC Mirror)

- (a) Engage the 6 claws and install the inner rear view mirror stay holder cover.



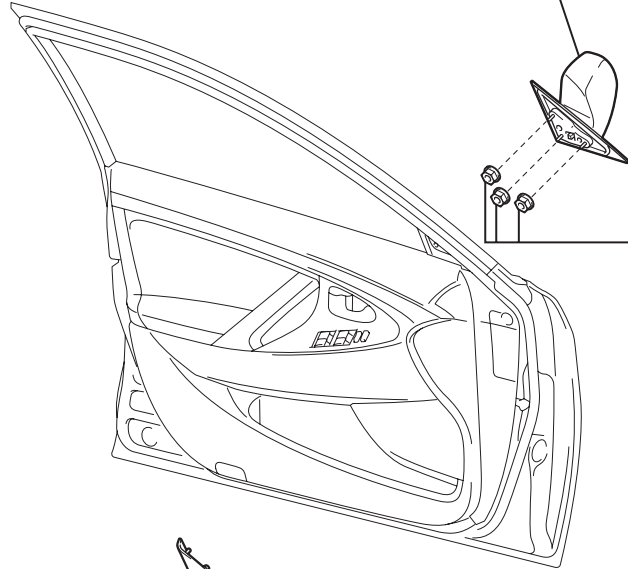
- (b) Engage the 2 claws and install the inner rear view mirror stay holder cover as shown in the illustration.

# OUTER REAR VIEW MIRROR

## COMPONENTS

MI

OUTER REAR VIEW MIRROR ASSEMBLY



5.5 (56, 49 in.\*lbf)



FRONT DOOR LOWER FRAME BRACKET GARNISH

**N\*m (kgf\*cm, ft.\*lbf)**: Specified torque

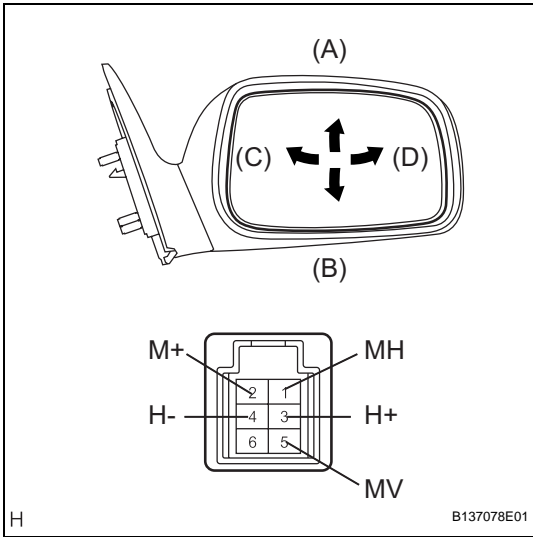
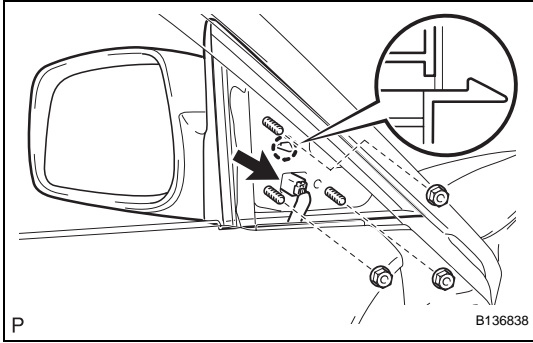
P

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## REMOVAL

1. REMOVE FRONT DOOR LOWER FRAME BRACKET GARNISH (See page ED-14)
2. REMOVE OUTER REAR VIEW MIRROR ASSEMBLY
  - (a) Disconnect the connector.
  - (b) Remove the 3 nuts.
  - (c) Disengage the claw and remove the outer rear view mirror assembly.



## INSPECTION

1. INSPECT OUTER REAR VIEW MIRROR ASSEMBLY RH
  - (a) Inspect outer mirror motor operation.
    - (1) Apply battery voltage and check operation of the mirror face, as shown in the table and illustration.

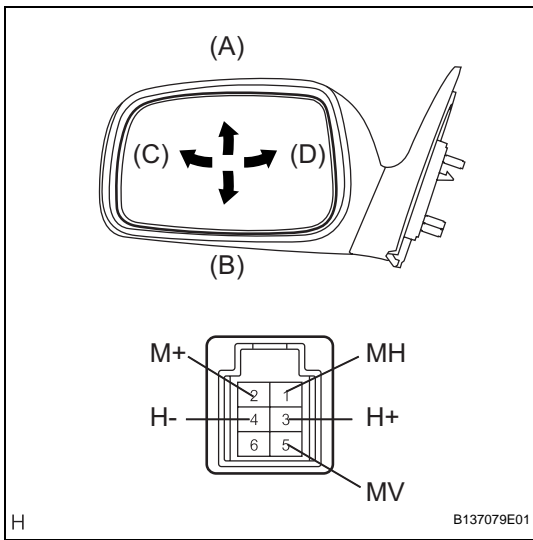
### Standard

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 5 (MV) Battery negative (-) → Terminal 2 (M+)	Turns upward (A)
Battery positive (+) → Terminal 2 (M+) Battery negative (-) → Terminal 5 (MV)	Turns downward (B)
Battery positive (+) → Terminal 1 (MH) Battery negative (-) → Terminal 2 (M+)	Turns left (C)
Battery positive (+) → Terminal 2 (M+) Battery negative (-) → Terminal 1 (MH)	Turns right (D)

- (b) Inspect outer mirror heater operation.
  - (1) Apply battery voltage and check operation of the mirror face, as shown in the table below.

### Standard

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 3 (H+) Battery negative (-) → Terminal 4 (H-)	Mirror surface temperature becomes higher



**2. INSPECT OUTER REAR VIEW MIRROR ASSEMBLY LH**

- (a) Inspect outer mirror motor operation.
  - (1) Remove the outer rear view mirror assembly.
  - (2) Apply battery voltage and check operation of the mirror face, as shown in the table and illustration.

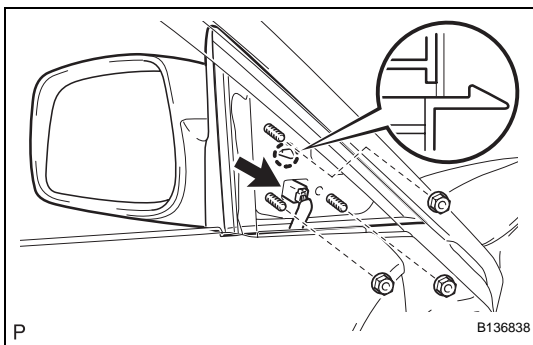
**Standard**

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 5 (MV) Battery negative (-) → Terminal 2 (M+)	Turns upward (A)
Battery positive (+) → Terminal 2 (M+) Battery negative (-) → Terminal 5 (MV)	Turns downward (B)
Battery positive (+) → Terminal 1 (MH) Battery negative (-) → Terminal 2 (M+)	Turns left (C)
Battery positive (+) → Terminal 2 (M+) Battery negative (-) → Terminal 1 (MH)	Turns right (D)

- (b) Inspect outer mirror heater operation.
  - (1) Apply battery voltage and check operation of the mirror face, as shown in the table below.

**Standard**

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 3 (H+) Battery negative (-) → Terminal 4 (H-)	Mirror surface temperature becomes higher



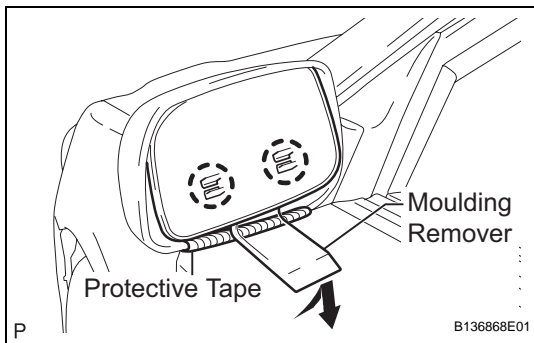
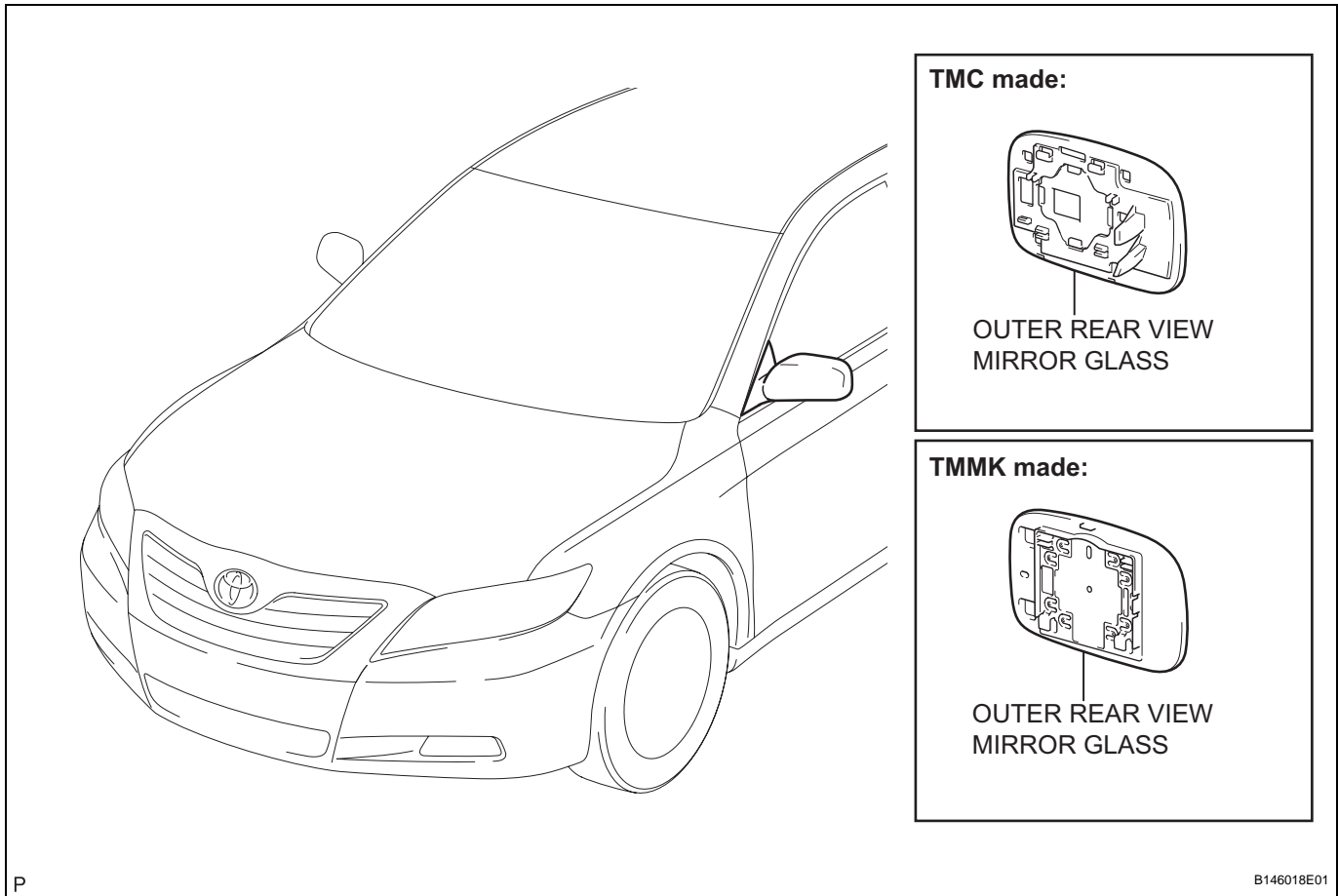
**INSTALLATION**

- 1. INSTALL OUTER REAR VIEW MIRROR ASSEMBLY**
  - (a) Engage the claw to install the outer rear view mirror assembly.
  - (b) Install the outer rear view mirror assembly with the 3 nuts.
    - Torque: 5.5 N\*m (56 kgf\*cm, 49 in.\*lbf)**
  - (c) Connect the connector.
- 2. INSTALL FRONT DOOR LOWER FRAME BRACKET GARNISH (See page ED-34)**

# OUTER REAR VIEW MIRROR GLASS

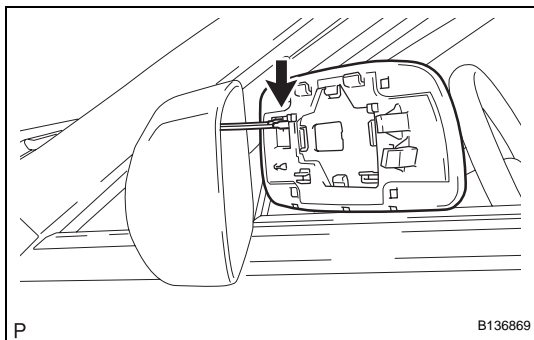
## COMPONENTS

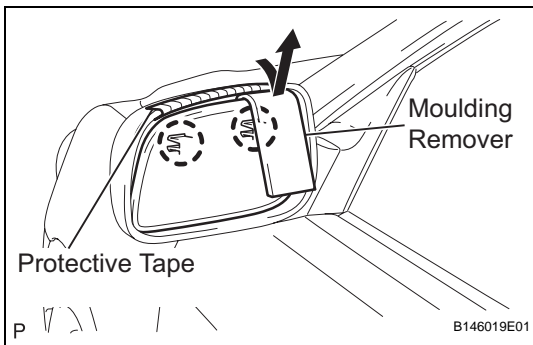
MI



## REPLACEMENT

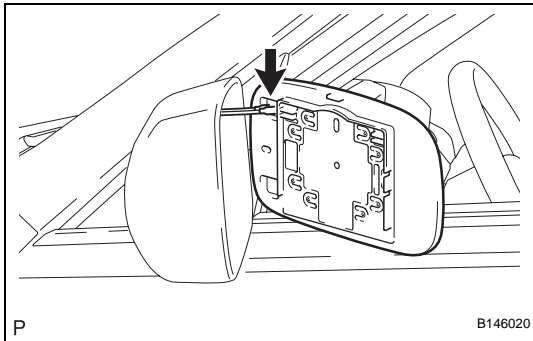
1. **REMOVE OUTER REAR VIEW MIRROR GLASS (for TMC Made)**
  - (a) Push the upper part of the mirror surface and tilt it.
  - (b) Using a moulding remover, disengage the 2 claws at the lower part of the outer rear view mirror, and remove the outer rear view mirror glass.
- (c) with Mirror Heater:
  - (1) Disconnect the connector and remove the outer rear view mirror glass.





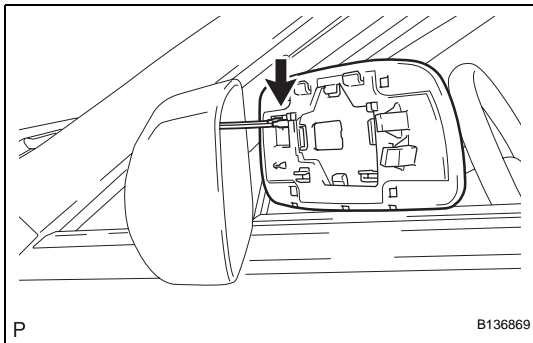
## 2. REMOVE OUTER REAR VIEW MIRROR GLASS (for TMMK Made)

- (a) Push the lower part of the mirror surface and tilt it.
- (b) Using a moulding remover, disengage the 2 claws at the upper part of the outer rear view mirror, and remove the outer rear view mirror glass.



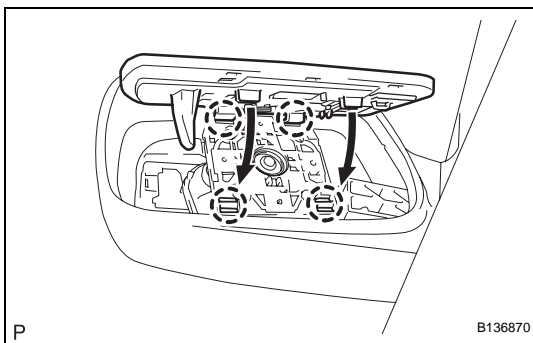
- (c) with Mirror Heater:

- (1) Disconnect the connector and remove the outer rear view mirror glass.



## 3. INSTALL OUTER REAR VIEW MIRROR GLASS (for TMC Made)

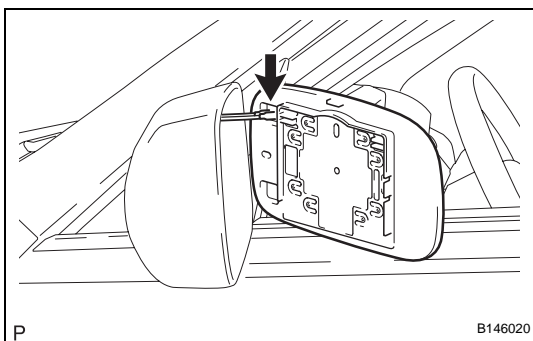
- (a) with Mirror Heater:
  - (1) Connect the connector.

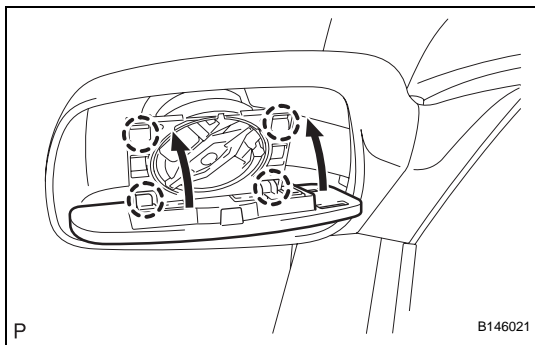


- (b) Engage the 2 claws on the upper part of the outer rear view mirror glass to the outer rear view mirror.
- (c) Engage the 2 claws on the lower part of the outer rear view mirror glass to the outer rear view mirror as shown in the illustration.

## 4. INSTALL OUTER REAR VIEW MIRROR GLASS (for TMMK Made)

- (a) with Mirror Heater:
  - (1) Connect the connector.

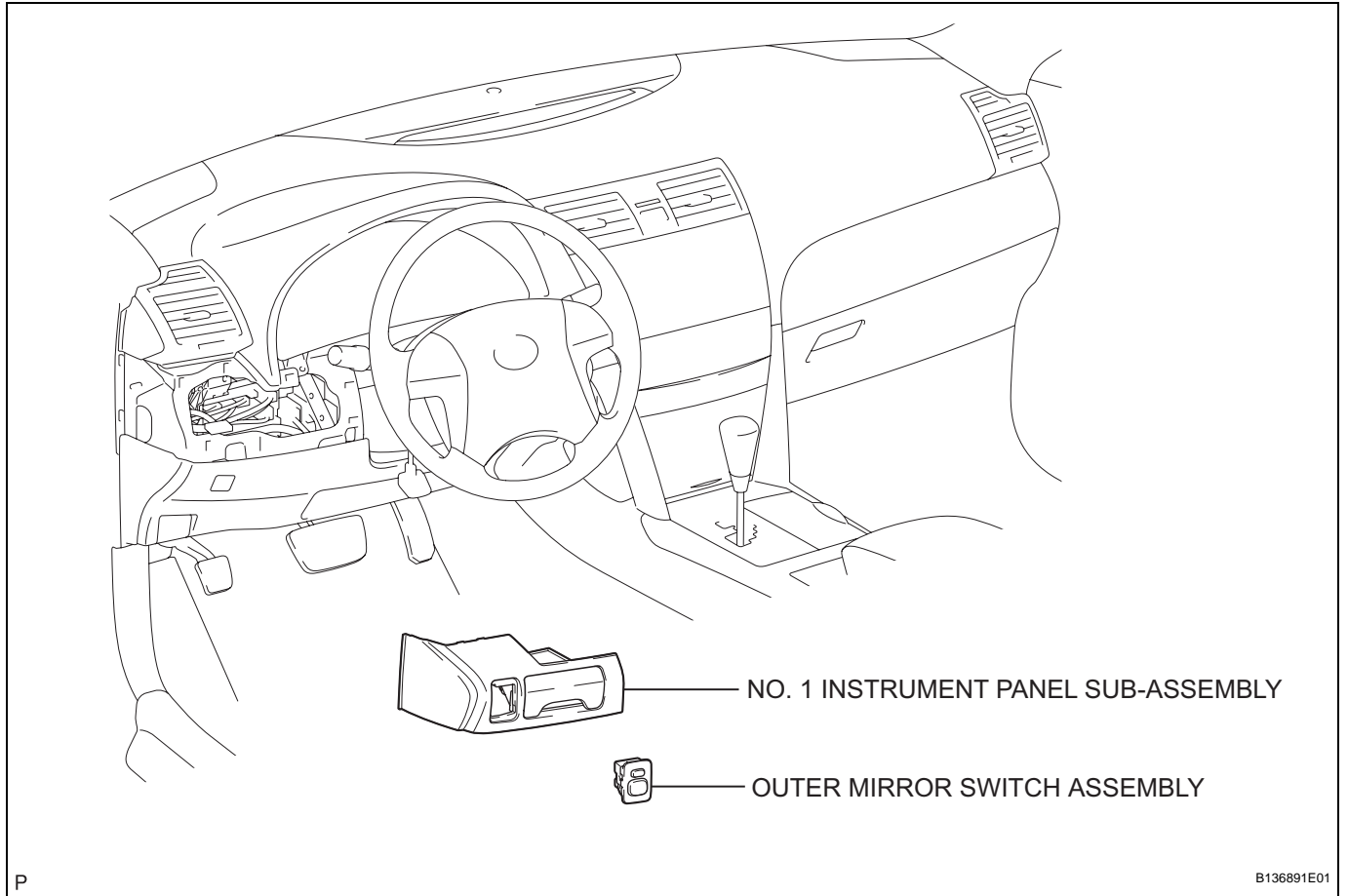




- (b) Engage the 2 claws on the lower part of the outer rear view mirror glass to the outer rear view mirror.
- (c) Engage the 2 claws on the upper part of the outer rear view mirror glass to the outer rear view mirror as shown in the illustration.

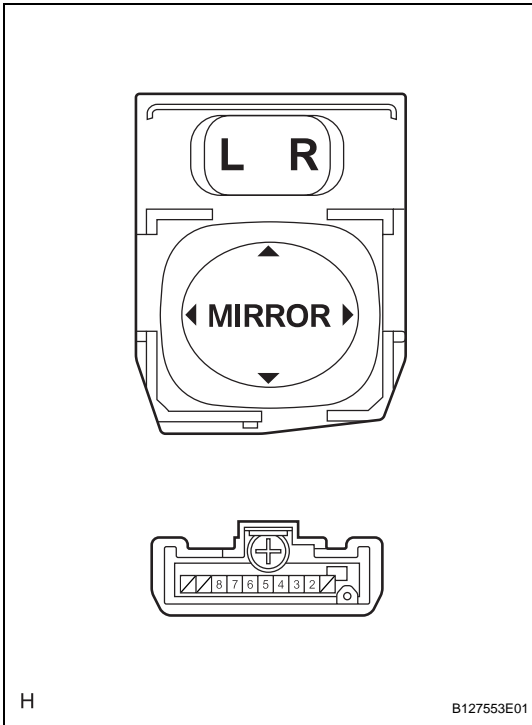
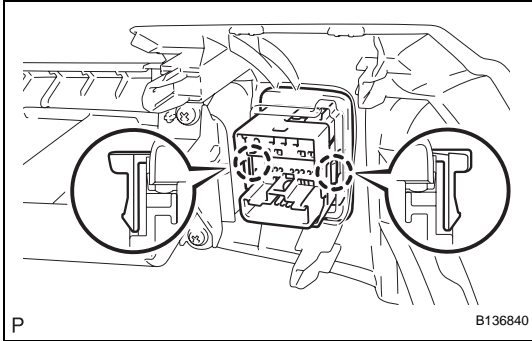
# OUTER MIRROR SWITCH

## COMPONENTS



## REMOVAL

1. REMOVE NO. 1 INSTRUMENT PANEL SUB-ASSEMBLY (See page IP-22)
2. REMOVE OUTER MIRROR SWITCH ASSEMBLY
  - (a) Disengage the 2 claws and remove the outer mirror switch assembly.



## INSPECTION

1. INSPECT OUTER MIRROR SWITCH ASSEMBLY
  - (a) Inspect the outer mirror switch.
    - (1) Measure the resistance according to the value(s) in the table below when the switch is operated.

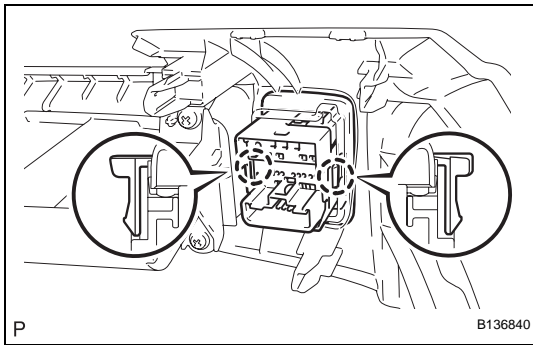
**Standard resistance:**

**Select "L" on the left/right adjustment switch**

Tester Connection	Switch Position	Specified Condition
4 - 8	UP	Below 1 $\Omega$
6 - 7		
4 - 7	DOWN	
6 - 8		
5 - 8	LEFT	
6 - 7		
5 - 7	RIGHT	
6 - 8		

**Select "R" on the left/right adjustment switch**

Tester Connection	Switch Position	Specified Condition
3 - 8	UP	Below 1 $\Omega$
6 - 7		
3 - 7	DOWN	
6 - 8		
2 - 8	LEFT	
6 - 7		
2 - 7	RIGHT	
6 - 8		



## INSTALLATION

- 1. INSTALL OUTER MIRROR SWITCH ASSEMBLY**
  - (a) Engage the 2 claws and install the outer mirror switch assembly.
- 2. INSTALL NO. 1 INSTRUMENT PANEL SUB-ASSEMBLY (See page [IP-57](#))**