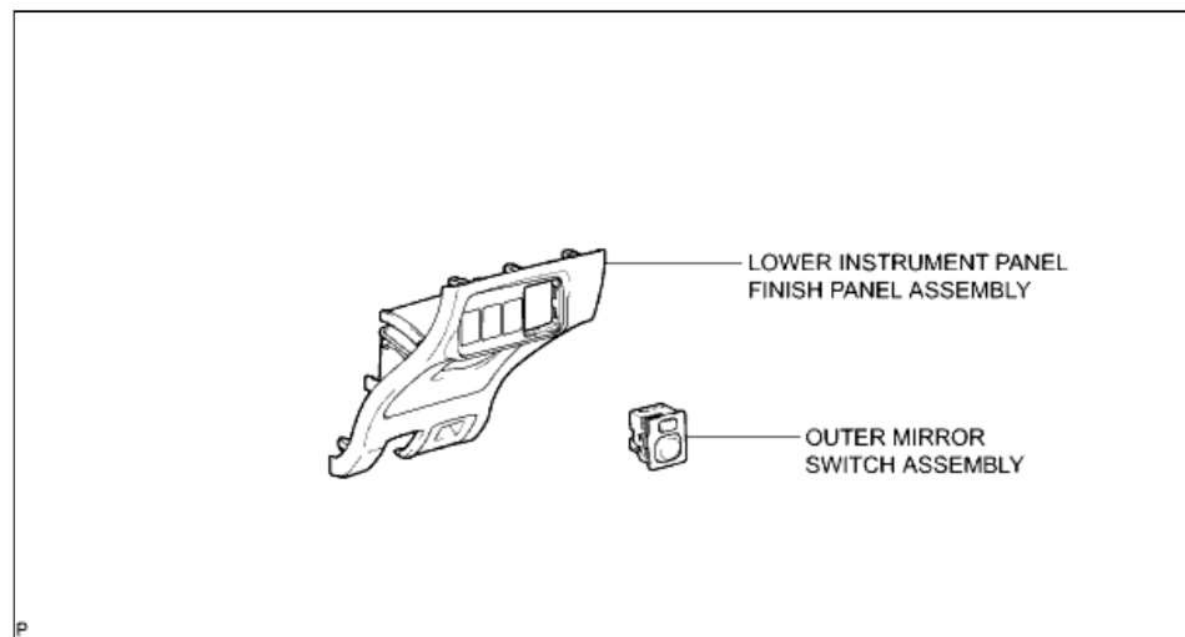


Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002WC300MX
Title: MIRROR (EXT): OUTER MIRROR SWITCH: COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION



P



TOYOTA

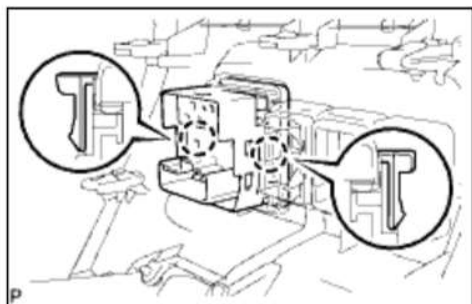
Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002WC400QX
Title: MIRROR (EXT): OUTER MIRROR SWITCH: REMOVAL (2010 Corolla)		

REMOVAL

1. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL ASSEMBLY



2. REMOVE OUTER MIRROR SWITCH ASSEMBLY



(a) Disengage the 2 claws and remove the outer mirror switch assembly.



Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000003H3X001X
Title: MIRROR (EXT): OUTER MIRROR SWITCH: INSPECTION (2010 Corolla)		

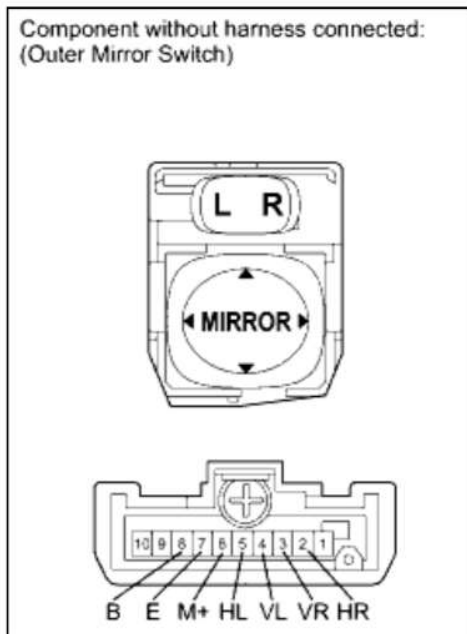
INSPECTION

1. INSPECT OUTER MIRROR SWITCH ASSEMBLY

(a) Inspect the L position of the left/right adjustment switch.

(1) Measure the resistance according to the value(s) in the table below.

Standard Resistance (for Left Side):



TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
4 (VL) - 8 (B)	UP	Below 1 Ω
6 (M+) - 7 (E)	OFF	10 k Ω or higher
4 (VL) - 7 (E)	DOWN	Below 1 Ω
6 (M+) - 8 (B)	OFF	10 k Ω or higher
5 (HL) - 8 (B)	LEFT	Below 1 Ω
6 (M+) - 7 (E)	OFF	10 k Ω or higher
5 (HL) - 7 (E)	RIGHT	Below 1 Ω
6 (M+) - 8 (B)	OFF	10 k Ω or higher

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

(b) Inspect the R position of the left/right adjustment switch.

(1) Measure the resistance according to the value(s) in the table below.

Standard Resistance (for Right Side):

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
3 (VR) - 8 (B)	UP	Below 1 Ω
6 (M+) - 7 (E)	OFF	10 k Ω or higher
3 (VR) - 7 (E)	DOWN	Below 1 Ω
6 (M+) - 8 (B)	OFF	10 k Ω or higher
2 (HR) - 8 (B)	LEFT	Below 1 Ω
6 (M+) - 7 (E)	OFF	10 k Ω or higher

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
2 (HR) - 7 (E)	RIGHT	Below 1 Ω
6 (M+) - 8 (B)	OFF	10 k Ω or higher

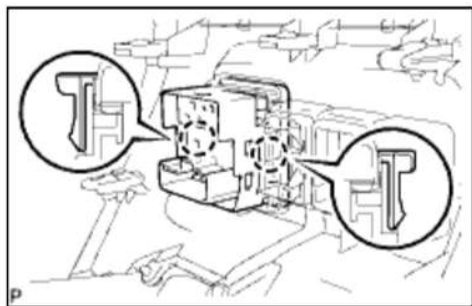
If the result is not as specified, replace the switch assembly.



Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002WC200QX
Title: MIRROR (EXT): OUTER MIRROR SWITCH: INSTALLATION (2010 Corolla)		

INSTALLATION

1. INSTALL OUTER MIRROR SWITCH ASSEMBLY



(a) Engage the 2 claws to install the outer mirror switch assembly.

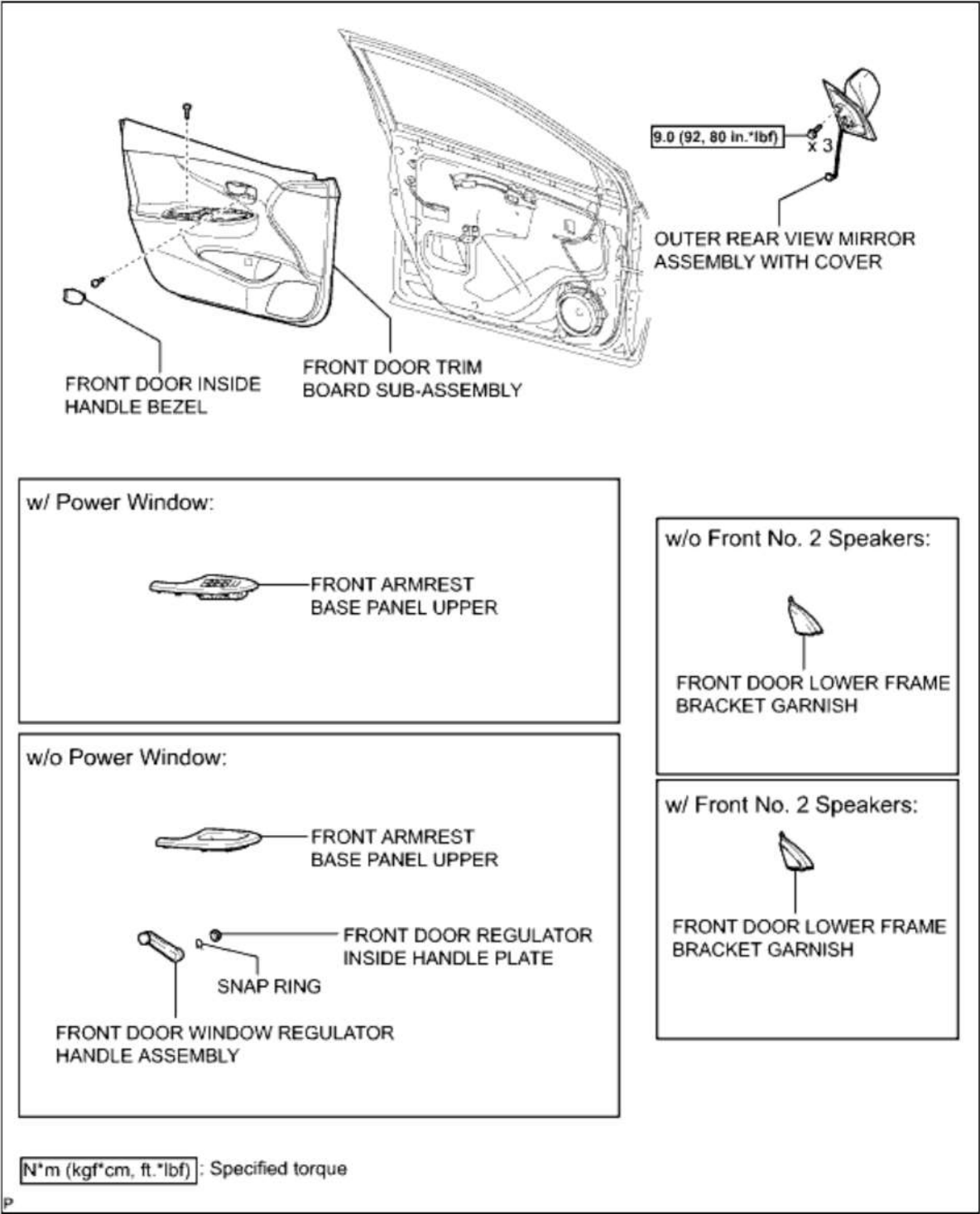
2. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL ASSEMBLY



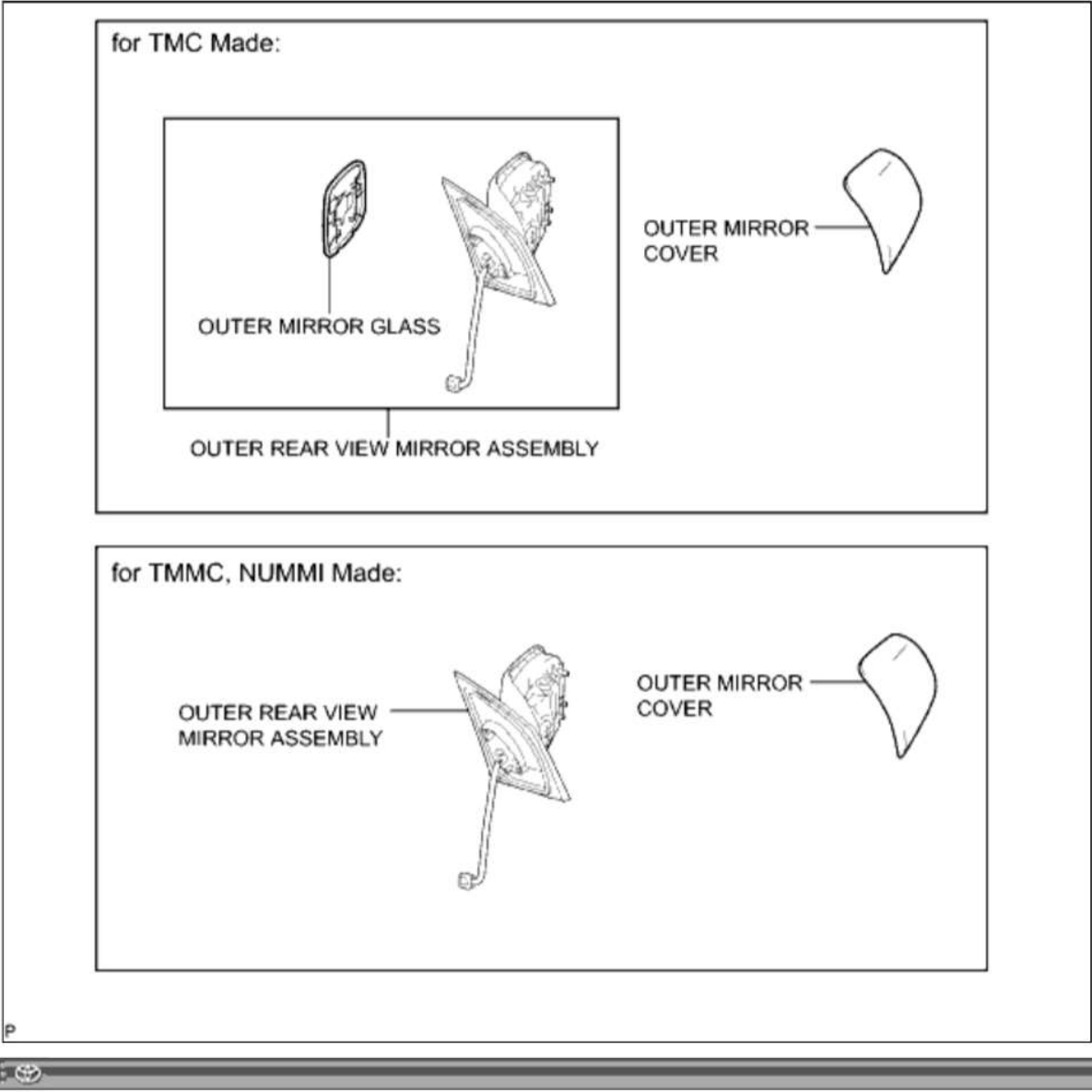
Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001PGQ01YX
Title: MIRROR (EXT): OUTER REAR VIEW MIRROR: COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION



ILLUSTRATION



Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001PGR02HX
Title: MIRROR (EXT): OUTER REAR VIEW MIRROR: REMOVAL (2010 Corolla)		

REMOVAL

1. REMOVE FRONT DOOR WINDOW REGULATOR HANDLE ASSEMBLY (w/o Power Window)



2. REMOVE FRONT DOOR INSIDE HANDLE BEZEL



3. REMOVE FRONT ARMREST BASE PANEL UPPER (w/o Power Window)



4. REMOVE FRONT ARMREST BASE PANEL UPPER (w/ Power Window)



5. REMOVE FRONT DOOR TRIM BOARD SUB-ASSEMBLY



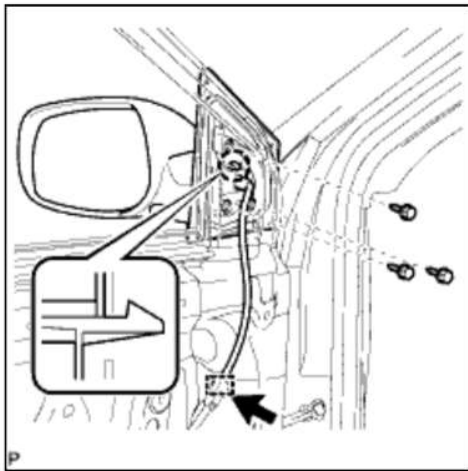
6. REMOVE FRONT DOOR LOWER FRAME BRACKET GARNISH (w/o Front No. 2 Speaker)



7. REMOVE FRONT DOOR LOWER FRAME BRACKET GARNISH (w/ Front No. 2 Speaker)



8. REMOVE OUTER REAR VIEW MIRROR ASSEMBLY WITH COVER



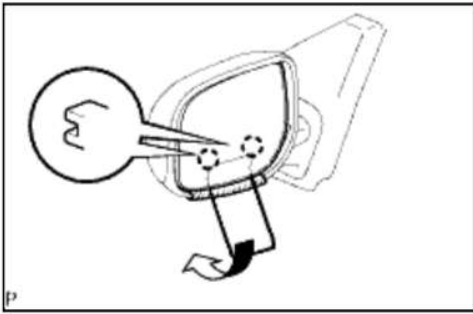
(a) Disconnect the clamp and connector.

(b) Remove the 3 bolts.

(c) Disengage the claw and remove the outer rear view mirror assembly with cover.

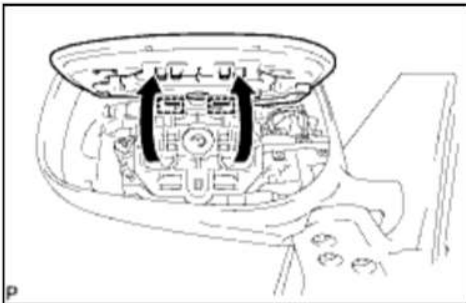
9. REMOVE OUTER MIRROR GLASS (for TMC Made)

(a) Apply protective tape to the bottom of the visor of the door mirror.



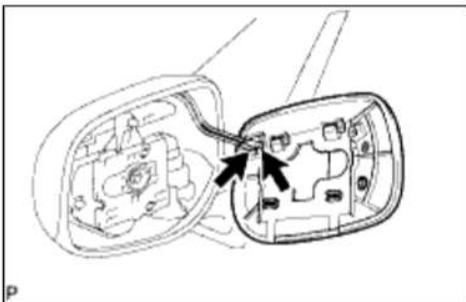
(b) Push the upper part of the mirror surface and tilt it.

(c) Using a moulding remover, disengage the 2 claws.



(d) Disengage the 2 guides at the upper part of the outer mirror as shown in the illustration.

(e) w/ Heater:

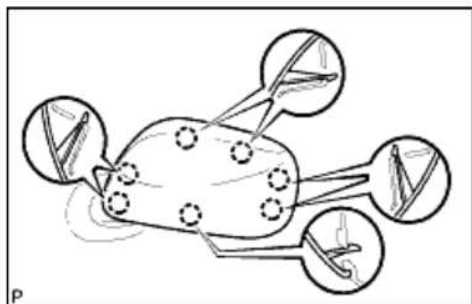


(1) Disconnect the connectors.

(f) Remove the outer mirror glass.

10. REMOVE OUTER MIRROR COVER (for TMC Made)

(a) Disengage the 7 claws and remove the outer mirror cover from the outer rear view mirror assembly with cover.



11. REMOVE OUTER MIRROR COVER (for TMMC, NUMMI Made)



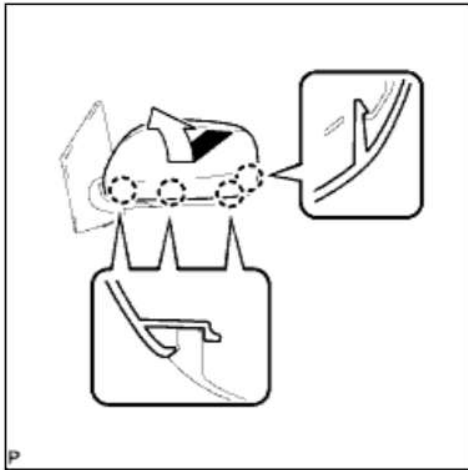
(a) Put protective tape around the outer mirror cover.



(b) Push the lower part of the mirror surface and tilt it.

(c) Using a screwdriver with the tip wrapped with protective tape, disengage the 2 claws B, from the clearance between the outer mirror glass and visor.

(d) Disengage the claw A.



(e) Disengage the 4 claws and remove the outer mirror cover.



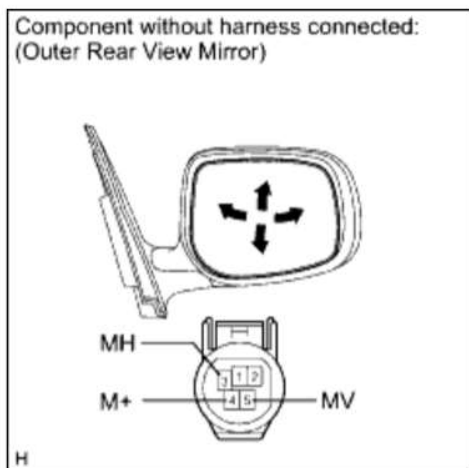
TOYOTA

Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000003H3W001X
Title: MIRROR (EXT): OUTER REAR VIEW MIRROR: INSPECTION (2010 Corolla)		

INSPECTION

1. INSPECT OUTER REAR VIEW MIRROR ASSEMBLY RH

(a) Inspect outer mirror motor operation.



(1) Disconnect the mirror connector.

(2) Apply battery voltage and check the operation of the mirror.

OK:

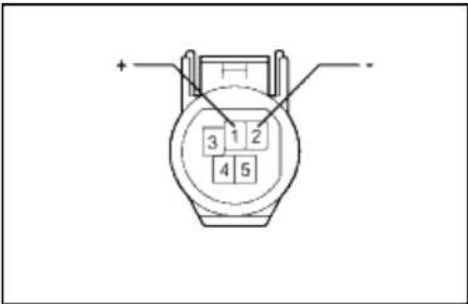
MEASUREMENT CONDITION	SPECIFIED CONDITION
Battery positive (+) → Terminal 5 (MV) Battery negative (-) → Terminal 4 (M+)	Turns upward
Battery positive (+) → Terminal 4 (M+) Battery negative (-) → Terminal 5 (MV)	Turns downward
Battery positive (+) → Terminal 3 (MH) Battery negative (-) → Terminal 4 (M+)	Turns left
Battery positive (+) → Terminal 4 (M+) Battery negative (-) → Terminal 3 (MH)	Turns right

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

(b) Inspect outer mirror heater operation.

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

OK:

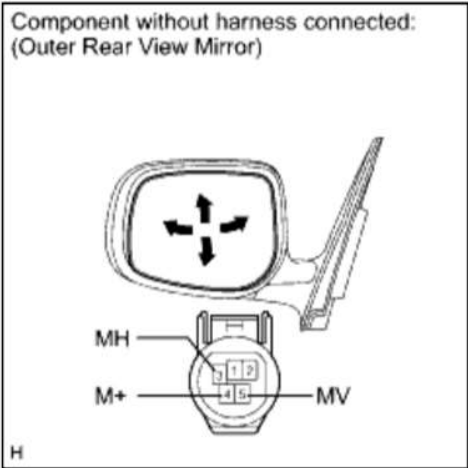


MEASUREMENT CONDITION	SPECIFIED CONDITION
Battery positive (+) → Terminal 1 (+) Battery negative (-) → Terminal 2 (-)	Mirror surface temperature becomes higher

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

2. INSPECT OUTER REAR VIEW MIRROR ASSEMBLY LH

(a) Inspect outer mirror motor operation.



(1) Disconnect the mirror connector.

(2) Apply battery voltage and check the operation of the mirror.

OK:

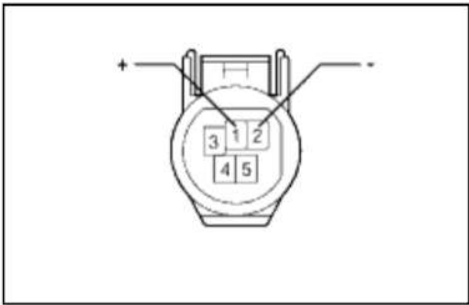
MEASUREMENT CONDITION	SPECIFIED CONDITION
Battery positive (+) → Terminal 5 (MV) Battery negative (-) → Terminal 4 (M+)	Turns upward
Battery positive (+) → Terminal 4 (M+) Battery negative (-) → Terminal 5 (MV)	Turns downward
Battery positive (+) → Terminal 3 (MH) Battery negative (-) → Terminal 4 (M+)	Turns left
Battery positive (+) → Terminal 4 (M+) Battery negative (-) → Terminal 3 (MH)	Turns right

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

(b) Inspect outer mirror heater operation.

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

OK:



MEASUREMENT CONDITION	SPECIFIED CONDITION
Battery positive (+) → Terminal 1 (+) Battery negative (-) → Terminal 2 (-)	Mirror surface temperature becomes higher

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

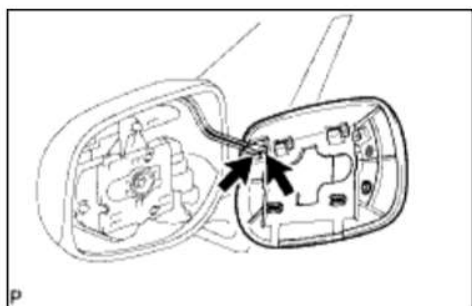


Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001PGP02HX
Title: MIRROR (EXT): OUTER REAR VIEW MIRROR: INSTALLATION (2010 Corolla)		

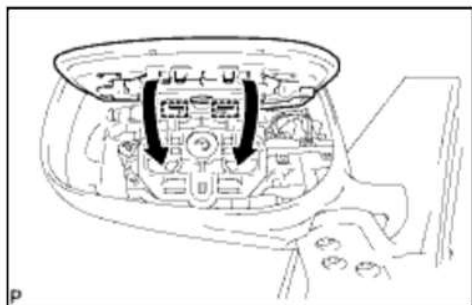
INSTALLATION

1. INSTALL OUTER MIRROR GLASS (for TMC Made)

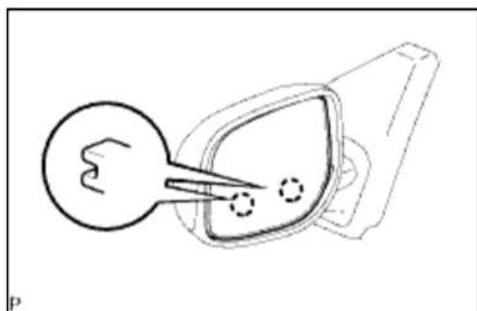
(a) w/ Heater:



(1) Connect the connectors.



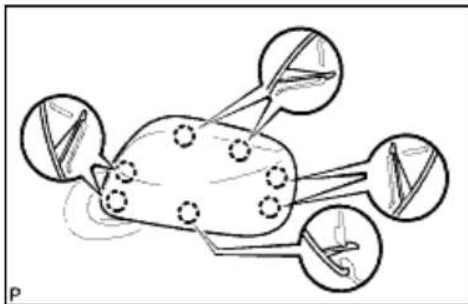
(b) Engage the 2 guides on the upper part of the outer mirror glass to the outer mirror as shown in the illustration.



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

2. INSTALL OUTER MIRROR COVER (for TMC Made)

(a) Engage the 7 claws to install the outer mirror cover to the

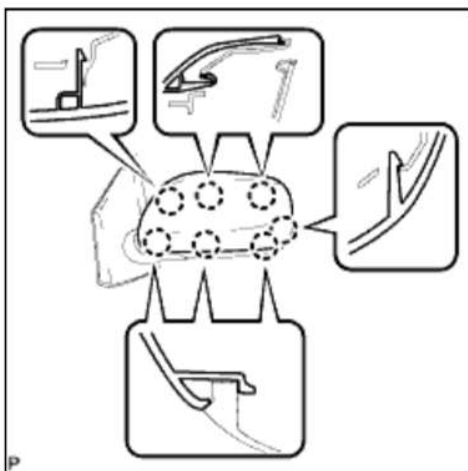


outer rear view mirror assembly with cover.

NOTICE:

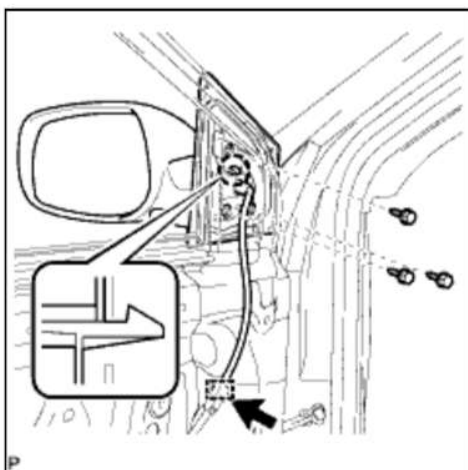
If there is a gap between the cover and the mirror body, it may cause noise during driving.

3. INSTALL OUTER MIRROR COVER (for TMMC, NUMMI Made)



(a) Engage the 7 claws to install the outer mirror cover.

4. INSTALL OUTER REAR VIEW MIRROR ASSEMBLY WITH COVER



(a) Engage the claw, and temporarily install the outer rear view mirror assembly with cover.

(b) Install the 3 bolts.

Torque: 9.0 N·m (92 kgf·cm, 80in·lbf)

(c) Engage the clamp and connect the connector.

5. INSTALL FRONT DOOR LOWER FRAME BRACKET GARNISH (w/o Front No. 2 Speaker)



6. INSTALL FRONT DOOR LOWER FRAME BRACKET GARNISH (w/ Front No. 2 Speaker)



7. INSTALL FRONT DOOR TRIM BOARD SUB-ASSEMBLY



8. INSTALL FRONT ARMREST BASE PANEL UPPER (w/o Power Window)



9. INSTALL FRONT ARMREST BASE PANEL UPPER (w/ Power Window)



10. INSTALL FRONT DOOR INSIDE HANDLE BEZEL



11. INSTALL FRONT DOOR WINDOW REGULATOR HANDLE ASSEMBLY (w/o Power Window)



Last Modified: 3-10-2010	6.4 L	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000003INO001X
Title: MIRROR (EXT): POWER MIRROR CONTROL SYSTEM: PRECAUTION (2010 Corolla)		

PRECAUTION

1. EXPRESSIONS OF IGNITION SWITCH

- (a) The type of ignition switch used on this model differs according to the specifications of the vehicle.

The expressions listed in the table below are used in this section.

EXPRESSION	SWITCH TYPE	
	IGNITION SWITCH (POSITION)	ENGINE SWITCH (CONDITION)
Ignition Switch off	LOCK	Off
Ignition Switch ON	ON	On (IG)
Ignition Switch ACC	ACC	On (ACC)
Engine Start	START	Start

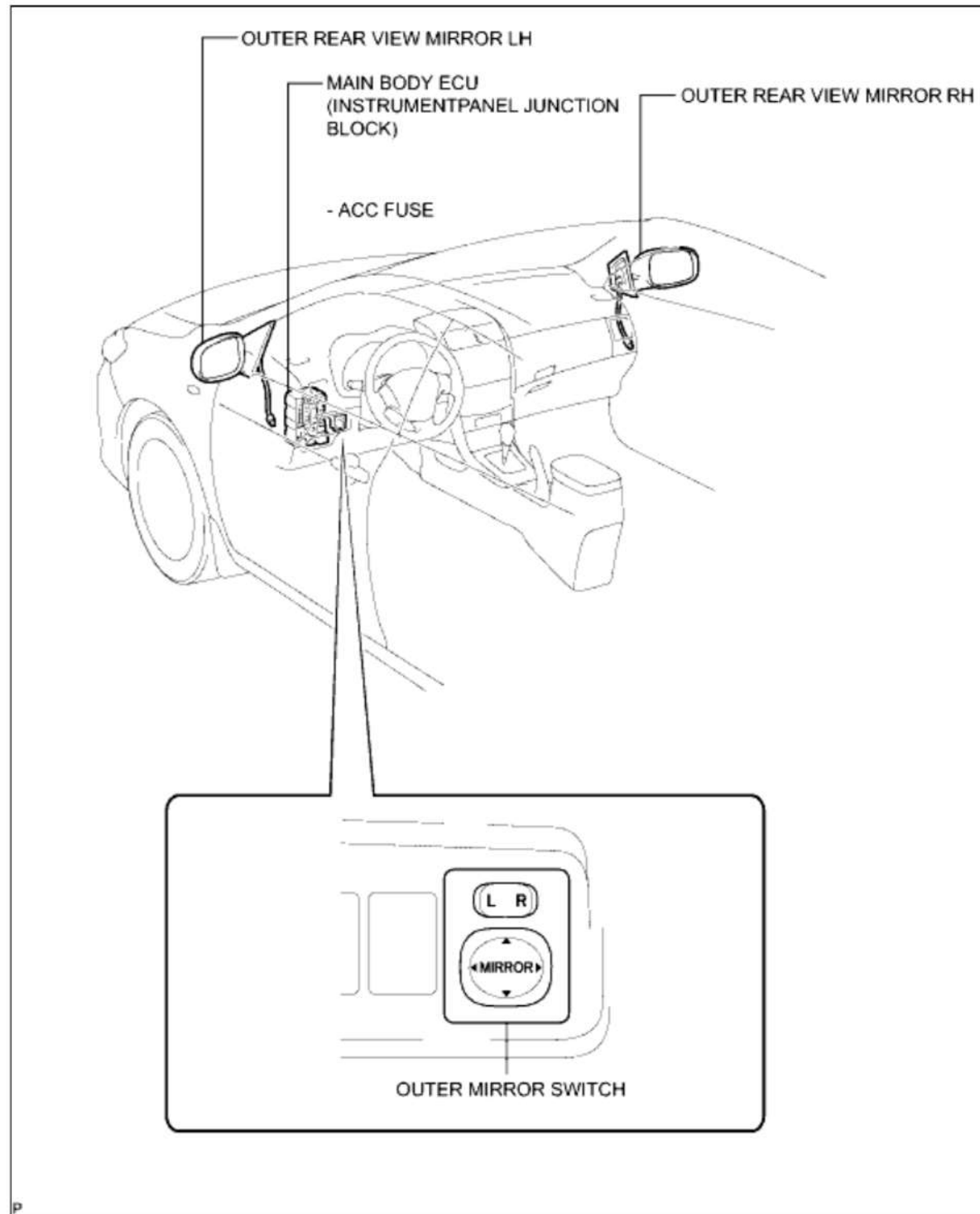


TOYOTA

Last Modified: 3-10-2010	6.4 R	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM00000209M00VX
Title: MIRROR (EXT): POWER MIRROR CONTROL SYSTEM: PARTS LOCATION (2010 Corolla)		

PARTS LOCATION

ILLUSTRATION





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Last Modified: 3-10-2010	6.4 T	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM0000020HQ013X
Title: MIRROR (EXT): POWER MIRROR CONTROL SYSTEM: PROBLEM SYMPTOMS TABLE (2010 Corolla)		

PROBLEM SYMPTOMS TABLE

HINT:

- Use the table below to help determine the cause of problem symptoms. If multiple suspected areas are listed, the potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.
- Inspect the fuses and relays related to this system before inspecting the suspected areas below.

Power Mirror Control System

SYMPTOM	SUSPECTED AREA	SEE PAGE
Mirror does not operate	ACC fuse	-
	Outer mirror switch	INFO
	Outer rear view mirror	INFO
	Wire harness or connector	-
Mirror heater does not operate	ACC fuse	-
	MIR HTR fuse	-
	Outer rear view mirror	INFO
	Wire harness	-
	Window defogger system (for Manual Air Conditioning System)	INFO
	Window defogger system (for Automatic Air Conditioning System)	INFO