

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM1000000029020
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: MIRROR (EXT): OUTER REAR VIEW MIRROR: INSPECTION; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

INSPECTION

PROCEDURE

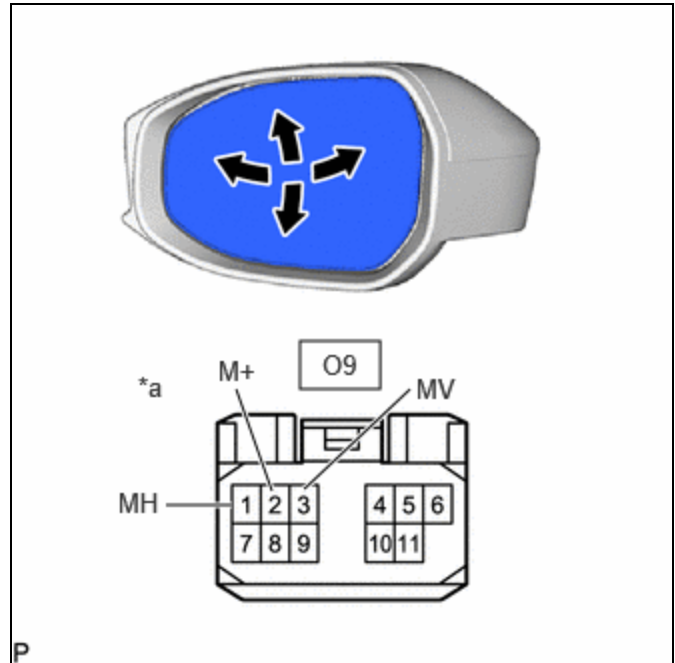
1. INSPECT OUTER REAR VIEW MIRROR ASSEMBLY LH

(a) Check the operation of the mirror surface.

NOTICE:

If the mirror surface is fully turned to the right, left, upward or downward position, the motor slips and produces a clicking noise. This is not a malfunction.

(1) Disconnect the outer rear view mirror assembly LH connector.



*a	Component without harness connected (Outer Rear View Mirror Assembly LH)
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(2) Apply auxiliary battery voltage and check the operation of the mirror surface.

OK:



[Click Location & Routing\(O9\)](#)

[Click Connector\(O9\)](#)

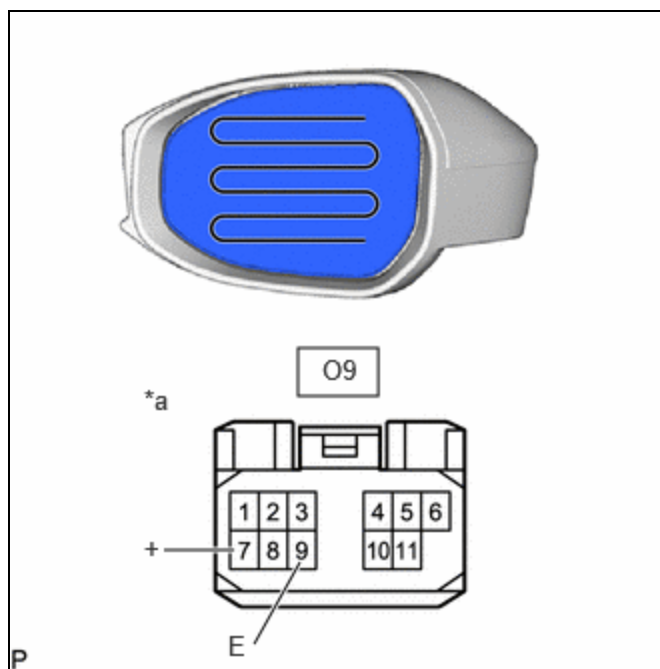
TESTER CONNECTION	SPECIFIED CONDITION
Auxiliary battery positive (+) → O9-3 (MV) Auxiliary battery negative (-) → O9-2 (M+)	Turns upward

TESTER CONNECTION	SPECIFIED CONDITION
Auxiliary battery positive (+) → O9-2 (M+) Auxiliary battery negative (-) → O9-3 (MV)	Turns downward
Auxiliary battery positive (+) → O9-1 (MH) Auxiliary battery negative (-) → O9-2 (M+)	Turns left
Auxiliary battery positive (+) → O9-2 (M+) Auxiliary battery negative (-) → O9-1 (MH)	Turns right

If the result is not as specified, replace the outer rear view mirror assembly LH.

(b) Check the operation of the mirror heater. (w/ Mirror Heater)

(1) Disconnect the outer rear view mirror assembly LH connector.



*a Component without harness connected (Outer Rear View Mirror Assembly LH)

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

Standard Resistance:



[Click Location & Routing\(O9\)](#)

[Click Connector\(O9\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
O9-7 (+) - O9-9 (E)	25°C (77°F)	12 to 18 Ω	Ω

If the result is not as specified, replace the outer rear view mirror assembly LH.

(3) Connect a cable from the positive (+) auxiliary battery terminal to terminal 7 (+) of connector O9 and the negative (-) auxiliary battery terminal to terminal 9 (E) of connector O9, then check that the mirror becomes warm.

HINT:

It takes a short time for the mirror to become warm.

OK:

Mirror becomes warm.

If the result is not as specified, replace the outer rear view mirror assembly LH.

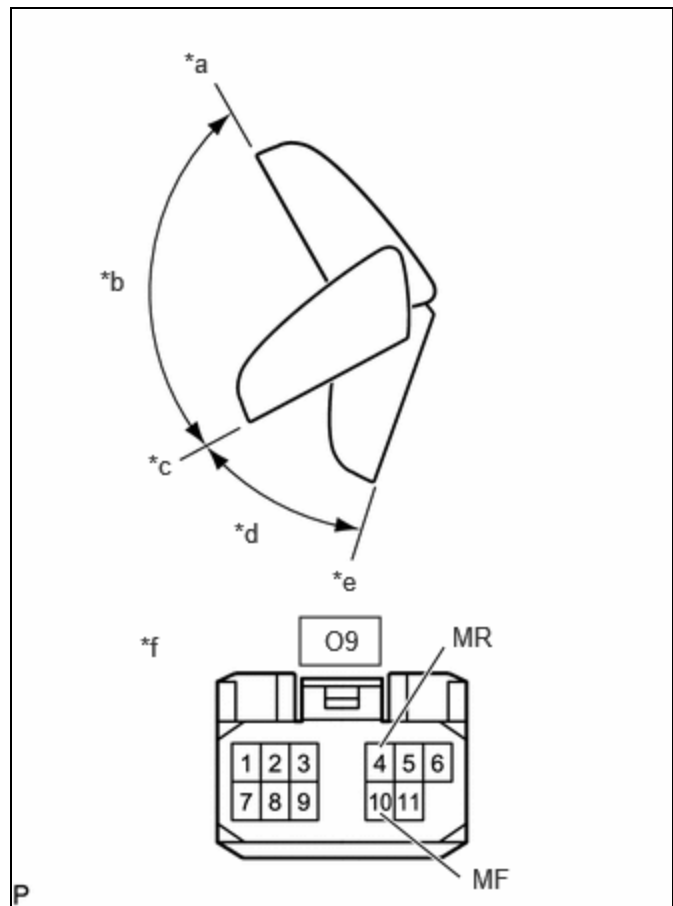
2. INSPECT OUTER MIRROR RETRACTOR LH (w/ Automatic Retractable Mirror)

(a) Check the operation of the retractable mirror.

NOTICE:

- Disconnect and reconnect the auxiliary battery between each mirror position check.
- The mirror position cannot be changed manually when the auxiliary battery is connected. To change the mirror position manually, the auxiliary battery must be disconnected first.
- If the motor is kept energized, even after each mirror position check, it may lead to a motor malfunction. Make sure to disconnect the auxiliary battery immediately after performing each mirror position check.

(1) Disconnect the outer rear view mirror assembly LH connector.



*a	(A) Forward position
*b	(B)
*c	(C) Driving position
*d	(D)
*e	(E) Retracted position
*f	Component without harness connected (Outer Rear View Mirror Assembly LH)

- (2) For each position: Disconnect the auxiliary battery, set the mirror position by hand, connect the auxiliary battery, and check the retractable mirror movement.

OK:



[Click Location & Routing\(O9\)](#)

[Click Connector\(O9\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Auxiliary battery positive (+) → O9-4 (MR) Auxiliary battery negative (-) → O9-10 (MF)	Forward position (A)	Moves from (A) to (E)
Auxiliary battery positive (+) → O9-10 (MF) Auxiliary battery negative (-) → O9-4 (MR)	Forward position (A)	Does not move
Auxiliary battery positive (+) → O9-4 (MR) Auxiliary battery negative (-) → O9-10 (MF)	Position between forward position (A) and driving position (C)	Moves from (B) to (E)
Auxiliary battery positive (+) → O9-10 (MF) Auxiliary battery negative (-) → O9-4 (MR)	Position between forward position (A) and driving position (C)	Moves from (B) to (A)
Auxiliary battery positive (+) → O9-4 (MR) Auxiliary battery negative (-) → O9-10 (MF)	Driving position (C)	Moves from (C) to (E)
Auxiliary battery positive (+) → O9-10 (MF) Auxiliary battery negative (-) → O9-4 (MR)	Driving position (C)	Does not move
Auxiliary battery positive (+) → O9-4 (MR) Auxiliary battery negative (-) → O9-10 (MF)	Position between driving position (C) and retracted position (E)	Moves from (D) to (E)
Auxiliary battery positive (+) → O9-10 (MF) Auxiliary battery negative (-) → O9-4 (MR)	Position between driving position (C) and retracted position (E)	Moves from (D) to (C)
Auxiliary battery positive (+) → O9-4 (MR) Auxiliary battery negative (-) → O9-10 (MF)	Retracted position (E)	Does not move

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Auxiliary battery positive (+) → O9-10 (MF) Auxiliary battery negative (-) → O9-4 (MR)	Retracted position (E)	Moves from (E) to (C)

If the result is not as specified, replace the outer mirror retractor LH.

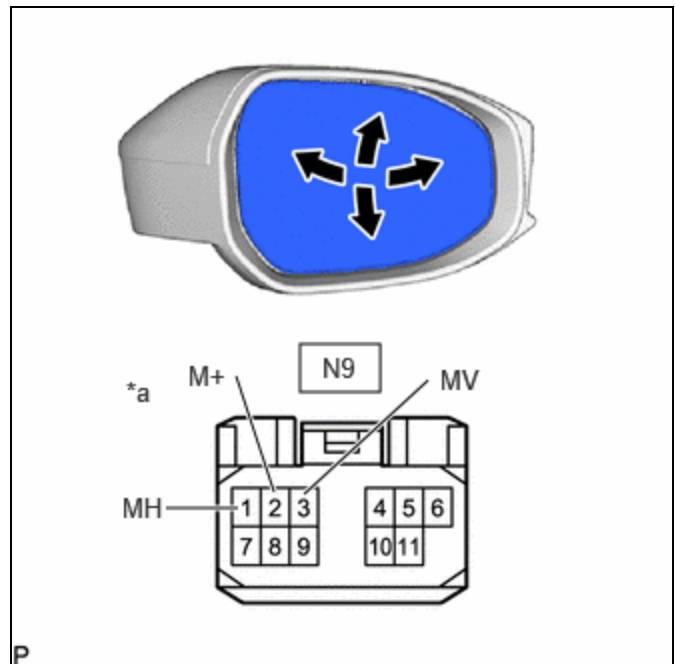
3. INSPECT OUTER REAR VIEW MIRROR ASSEMBLY RH

(a) Check the operation of the mirror surface.

NOTICE:

If the mirror surface is fully turned to the right, left, upward or downward position, the motor slips and produces a clicking noise. This is not a malfunction.

(1) Disconnect the outer rear view mirror assembly RH connector.



*a	Component without harness connected (Outer Rear View Mirror Assembly RH)
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(2) Apply auxiliary battery voltage and check the operation of the mirror surface.

OK:



[Click Location & Routing\(N9\)](#)

[Click Connector\(N9\)](#)

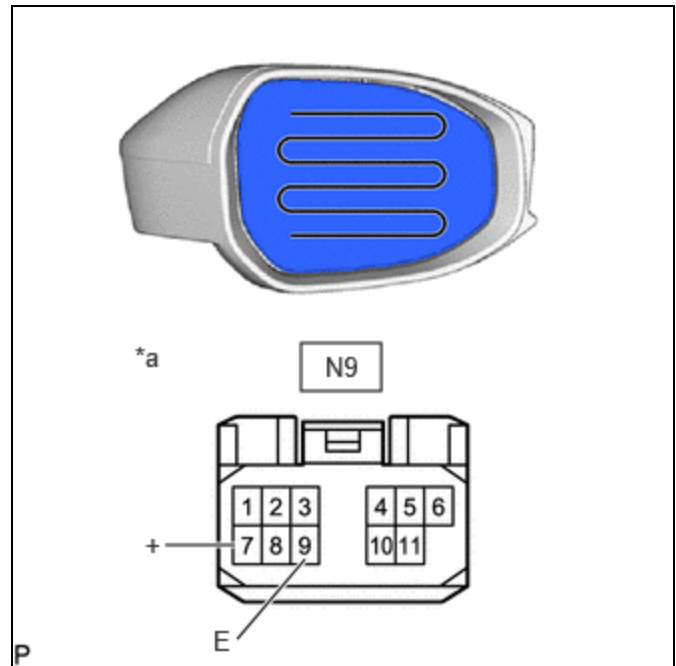
TESTER CONNECTION	SPECIFIED CONDITION
Auxiliary battery positive (+) → N9-3 (MV) Auxiliary battery negative (-) → N9-2 (M+)	Turns upward

TESTER CONNECTION	SPECIFIED CONDITION
Auxiliary battery positive (+) → N9-2 (M+) Auxiliary battery negative (-) → N9-3 (MV)	Turns downward
Auxiliary battery positive (+) → N9-1 (MH) Auxiliary battery negative (-) → N9-2 (M+)	Turns left
Auxiliary battery positive (+) → N9-2 (M+) Auxiliary battery negative (-) → N9-1 (MH)	Turns right

If the result is not as specified, replace the outer rear view mirror assembly RH.

(b) Check the operation of the mirror heater. (w/ Mirror Heater)

(1) Disconnect the outer rear view mirror assembly RH connector.



*a	Component without harness connected (Outer Rear View Mirror Assembly RH)
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(2) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



[Click Location & Routing\(N9\)](#)

[Click Connector\(N9\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
N9-7 (+) - N9-9 (E)	25°C (77°F)	12 to 18 Ω	Ω

If the result is not as specified, replace the outer rear view mirror assembly RH.

(3) Connect a cable from the positive (+) auxiliary battery terminal to terminal 7 (+) of connector N9 and the negative (-) auxiliary battery terminal to terminal 9 (E) of connector N9, then check that the mirror becomes warm.

HINT:

It takes a short time for the mirror to become warm.

OK:

Mirror becomes warm.

If the result is not as specified, replace the outer rear view mirror assembly RH.

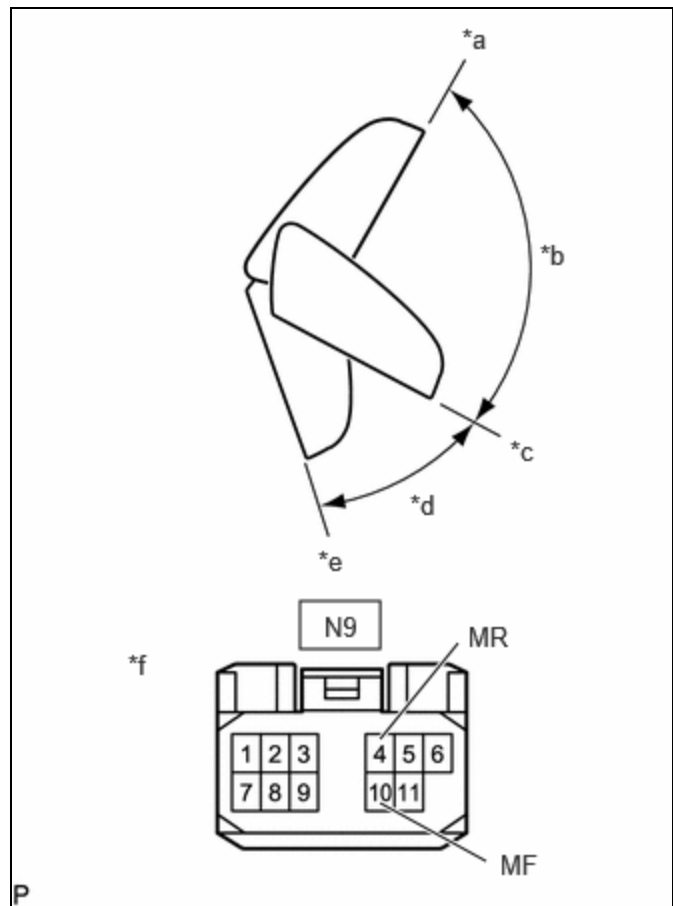
4. INSPECT OUTER MIRROR RETRACTOR RH (w/ Automatic Retractable Mirror)

(a) Check the operation of the retractable mirror.

NOTICE:

- Disconnect and reconnect the auxiliary battery between each mirror position check.
- The mirror position cannot be changed manually when the auxiliary battery is connected. To change the mirror position manually, the auxiliary battery must be disconnected first.
- If the motor is kept energized, even after each mirror position check, it may lead to a motor malfunction. Make sure to disconnect the auxiliary battery immediately after performing each mirror position check.

(1) Disconnect the outer rear view mirror assembly RH connector.



*a	(A) Forward Position
*b	(B)
*c	(C) Driving position
*d	(D)
*e	(E) Retracted Position
*f	Component without harness connected (Outer Rear View Mirror Assembly RH)

(2) For each position: Disconnect the auxiliary battery, set the mirror position by hand, connect the auxiliary battery, and check the retractable mirror movement.

OK:



[Click Location & Routing\(N9\)](#)

[Click Connector\(N9\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Auxiliary battery positive (+) → N9-4 (MR) Auxiliary battery negative (-) → N9-10 (MF)	Forward position (A)	Moves from (A) to (E)
Auxiliary battery positive (+) → N9-10 (MF) Auxiliary battery negative (-) → N9-4 (MR)	Forward position (A)	Does not move
Auxiliary battery positive (+) → N9-4 (MR) Auxiliary battery negative (-) → N9-10 (MF)	Position between forward position (A) and driving position (C)	Moves from (B) to (E)
Auxiliary battery positive (+) → N9-10 (MF) Auxiliary battery negative (-) → N9-4 (MR)	Position between forward position (A) and driving position (C)	Moves from (B) to (A)
Auxiliary battery positive (+) → N9-4 (MR) Auxiliary battery negative (-) → N9-10 (MF)	Driving position (C)	Moves from (C) to (E)
Auxiliary battery positive (+) → N9-10 (MF) Auxiliary battery negative (-) → N9-4 (MR)	Driving position (C)	Does not move
Auxiliary battery positive (+) → N9-4 (MR) Auxiliary battery negative (-) → N9-10 (MF)	Position between driving position (C) and retracted position (E)	Moves from (D) to (E)
Auxiliary battery positive (+) → N9-10 (MF) Auxiliary battery negative (-) → N9-4 (MR)	Position between driving position (C) and retracted position (E)	Moves from (D) to (C)
Auxiliary battery positive (+) → N9-4 (MR) Auxiliary battery negative (-) → N9-10 (MF)	Retracted position (E)	Does not move

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Auxiliary battery positive (+) → N9-10 (MF) Auxiliary battery negative (-) → N9-4 (MR)	Retracted position (E)	Moves from (E) to (C)

If the result is not as specified, replace the outer mirror retractor RH.

