TOYOTA

Toyota TechDoc

LAND CRUISE

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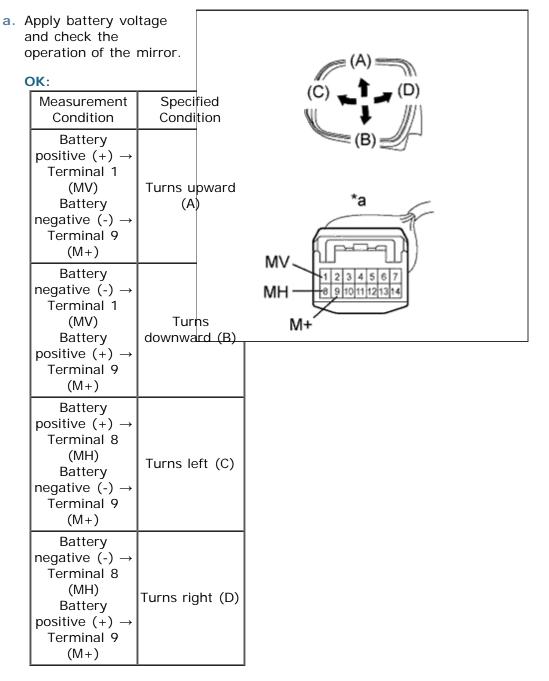
OUTER REAR VIEW MIRROR > INSPECTION

for Preparation Click here

- 1. INSPECT OUTER REAR VIEW MIRROR ASSEMBLY LH (w/ Side Monitor System)
- 2. INSPECT OUTER REAR VIEW MIRROR ASSEMBLY RH (w/ Side Monitor System)
- 3. INSPECT OUTER REAR VIEW MIRROR ASSEMBLY LH (w/o Side Monitor System)
- 4. INSPECT OUTER REAR VIEW MIRROR ASSEMBLY RH (w/o Side Monitor System)

1. INSPECT OUTER REAR VIEW MIRROR ASSEMBLY LH (w/ Side Monitor System)

OUTER REAR VIEW MIRROR > INSPECTION



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

Text in Illustration

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

b. For each position: Disconnect the battery, set the mirror position by hand, connect the battery, and check the retractable mirror

retractable mirror movement.				(B)
OK:				
	surement ndition	Mirror Position	Specified Condition	\ (
posi → T 3 Ba nega → T	attery tive (+) erminal (MR) attery ative (-) erminal) (MF)	Forward position (A)	Moves from (A) to retracted position (E)	(C) *a
nega → T 3 Ba posi → T	attery ative (-) erminal (MR) attery tive (+) erminal) (MF)	Forward position (A)	move	MR 1 2 3 4 5 6 7 8 9 10 11 12 13 14
posi → T 3 Ba nega → T	attery tive (+) erminal (MR) attery ative (-) erminal) (MF)	Position between forward position (A) and driving position (C)	Moves from (B) to retracted position (E)	
nega → T 3 Ba posi → T	attery ative (-) erminal (MR) attery tive (+) erminal) (MF)	Position between forward position (A) and driving position (C)	Moves from (B) to forward position (A)	
posi → T 3 Ba nega	attery tive (+) erminal (MR) attery ative (-) erminal	Driving position (C)	Moves from (C) to retracted position (E)	

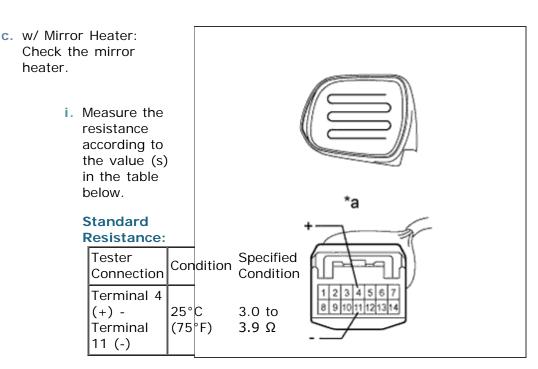
10 (MF)		
Battery negative (-) → Terminal 3 (MR) Battery positive (+) → Terminal 10 (MF)	Driving position (C)	Does not move
Battery positive (+) → Terminal 3 (MR) Battery negative (-) → Terminal 10 (MF)	Position between driving position (C) and retracted position (E)	Moves from (D) to retracted position (E)
Battery negative (-) → Terminal 3 (MR) Battery positive (+) → Terminal 10 (MF)	Position between driving position (C) and retracted position (E)	Moves from (D) to driving position (C)
Battery positive (+) → Terminal 3 (MR) Battery negative (-) → Terminal 10 (MF)	Retracted position (E)	Does not move
Battery negative (-) → Terminal 3 (MR) Battery positive (+) → Terminal 10 (MF)	Retracted position (E)	Moves from (E) to driving position (C)

- Disconnect and reconnect the battery between each mirror position check.
- Do not apply battery voltage when moving the mirror by hand into each mirror position.

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

Text in Illustration

	,	Component without harness	
ı		connected	
l	а	(Outer Rear View Mirror	
ı		Assembly LH)	



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

 Apply battery voltage and check the operation of the mirror heater.

OK:

Measurement	Specified
Condition	Condition
Battery positive (+) → Terminal 4 (+) Battery negative (-) → Terminal 11 (-)	Mirror becomes warm

HINT:

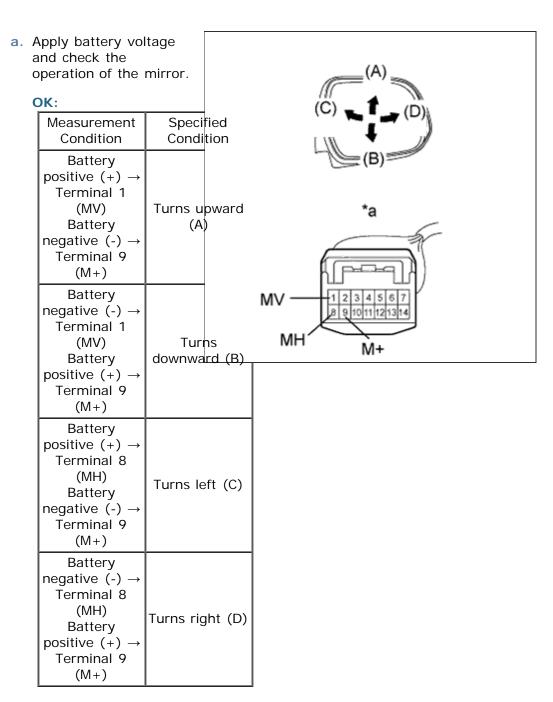
It will take a short time for the mirror to become warm.

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

Text in Illustration

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

2. INSPECT OUTER REAR VIEW MIRROR ASSEMBLY RH (w/ Side Monitor System)



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

Text in Illustration

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

For each position:
 Disconnect the battery, set the mirror position by hand, connect the battery, and check the retractable mirror

		(A)
movement.	1	(B)
OK:	77	
Measurement Mirr Condition Posit		
Battery positive (+) → Terminal 3 (MR) Battery negative (-) → Terminal 10 (MF)	. IIt∩	(C) (E) *a
Battery negative (-) → Terminal 3 (MR) Battery positive (+) → Terminal 10 (MF)	Does not move	1 2 3 4 5 6 7 8 9 10 11 12 13 14
Battery positive (+) → Terminal forwa 3 (MR) positi Battery (A) a drivin → Terminal positi 10 (MF) (C)	een Moves rd from (B) on to retracted g position	
Battery negative (-) → Terminal forwa 3 (MR) positi Battery (A) ard positive (+) → Terminal positi 10 (MF) (C)	een Moves rd from (B) on to nd forward g position	
Battery positive (+) → Terminal 3 (MR) Battery negative (-) → Terminal 10 (MF)		
Battery negative (-) → Terminal 3 (MR) Battery positive (+) → Terminal		

10 (MF)		
Battery positive (+) → Terminal 3 (MR) Battery negative (-) → Terminal 10 (MF)	Position between driving position (C) and retracted position (E)	Moves from (D) to retracted position (E)
Battery negative (-) → Terminal 3 (MR) Battery positive (+) → Terminal 10 (MF)	Position between driving position (C) and retracted position (E)	Moves from (D) to driving position (C)
Battery positive (+) → Terminal 3 (MR) Battery negative (-) → Terminal 10 (MF)	Retracted position (E)	Does not move
Battery negative (-) → Terminal 3 (MR) Battery positive (+) → Terminal 10 (MF)	Retracted position (E)	Moves from (E) to driving position (C)

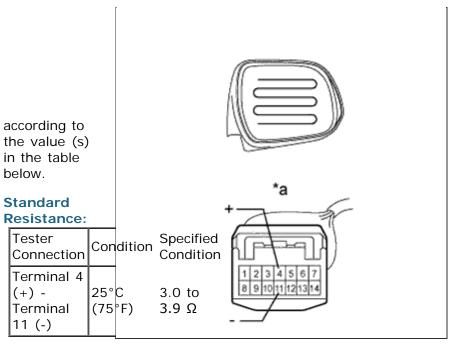
- Disconnect and reconnect the battery between each mirror position check.
- Do not apply battery voltage when moving the mirror by hand into each mirror position.

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

Text in Illustration

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

- c. w/ Mirror Heater: Check the mirror heater.
 - i. Measure the resistance



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

ii. Apply battery voltage and check the operation of the mirror heater.

OK:

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 4 (+) Battery negative (-) → Terminal 11 (-)	Mirror becomes warm

HINT:

It will take a short time for the mirror to become warm.

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

Text in Illustration

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

3. INSPECT OUTER REAR VIEW MIRROR ASSEMBLY LH (w/o Side Monitor System)

a. Apply battery voltage and check the operation of the mirror. OK: Measurement Specified Condition Condition Battery positive $(+) \rightarrow$ Terminal 6 (MV) Turns upward MH **Battery** (A) negative $(-) \rightarrow$ M+ Terminal 5 (M+)Battery negative $(-) \rightarrow$ Terminal 6 (MV) Turns downward (B) Battery positive $(+) \rightarrow$ Terminal 5 (M+)Battery positive $(+) \rightarrow$ Terminal 4 (MH) Turns left (C) **Battery** negative $(-) \rightarrow$ Terminal 5 (M+)**Battery** negative $(-) \rightarrow$ Terminal 4 (MH) Turns right (D) Battery positive $(+) \rightarrow$ Terminal 5 (M+)

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

Text in Illustration

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

b. w/ Retract Mirror:
 For each position:
 Disconnect the battery, set the mirror position by hand, connect the battery, and check the retractable mirror

movement. OK: Measurement Condition Mirror Position	Specified Condition Moves from (A) to MR retracted position (E) (A) (B) (C) (D) (E)
Battery negative (-) → Terminal 3 (MR) Battery positive (+) → Terminal 9 (MF) Forward position (A)	Does not move
Battery position between forward 3 (MR) position Battery (A) and negative (-) → Terminal 9 (MF) (C)	Moves from (B) to retracted position (E)
Battery negative (-) → Terminal forward position Battery (A) and positive (+) → Terminal position 9 (MF) (C)	Moves from (B) to forward position (A)
Battery positive (+) → Terminal 3 (MR) Battery negative (-) → Terminal 9 (MF) Driving position (C)	Moves from (C) to retracted position (E)
Battery negative (-) → Terminal 3 (MR) Battery positive (+) Driving position (C)	Does not move

→ Terminal 9 (MF)		
Battery positive (+) → Terminal 3 (MR) Battery negative (-) → Terminal 9 (MF)	Position between driving position (C) and retracted position (E)	Moves from (D) to retracted position (E)
Battery negative (-) → Terminal 3 (MR) Battery positive (+) → Terminal 9 (MF)	Position between driving position (C) and retracted position (E)	Moves from (D) to driving position (C)
Battery positive (+) → Terminal 3 (MR) Battery negative (-) → Terminal 9 (MF)	Retracted position (E)	Does not move
Battery negative (-) → Terminal 3 (MR) Battery positive (+) → Terminal 9 (MF)	Retracted position (E)	Moves from (E) to driving position (C)

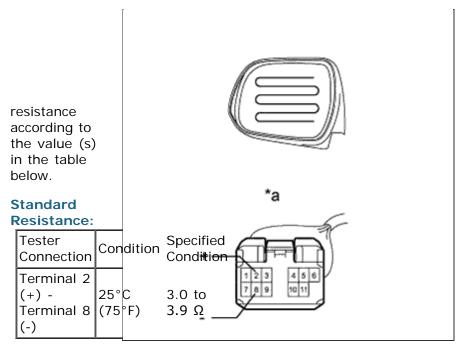
- Disconnect and reconnect the battery between each mirror position check.
- Do not apply battery voltage when moving the mirror by hand into each mirror position.

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

Text in Illustration

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

- c. w/ Mirror heater: Check the mirror heater.
 - i. Measure the



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

ii. Apply battery voltage and check the operation of the mirror heater.

OK:

Measurement	Specified
Condition	Condition
Battery positive (+) → Terminal 2 (+) Battery negative (-) → Terminal 8 (-)	Mirror becomes warm

HINT:

It will take a short time for the mirror to become warm.

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

Text in Illustration

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

4. INSPECT OUTER REAR VIEW MIRROR ASSEMBLY RH (w/o Side Monitor System)

a. Apply battery voltage and check the operation of the mirror. OK: Measurement Specified Condition Condition Battery positive $(+) \rightarrow$ Terminal 6 (MV) Turns upward MH **Battery** (A) negative $(-) \rightarrow$ M+ Terminal 5 (M+)ΜV Battery negative $(-) \rightarrow$ Terminal 6 (MV) Turns downward (B) Battery positive $(+) \rightarrow$ Terminal 5 (M+)Battery positive $(+) \rightarrow$ Terminal 4 (MH) Turns left (C) **Battery** negative $(-) \rightarrow$ Terminal 5 (M+)**Battery** negative $(-) \rightarrow$ Terminal 4 (MH) Turns right (D) Battery positive $(+) \rightarrow$ Terminal 5 (M+)

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

Text in Illustration

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

b. w/ Retract Mirror:
 For each position:
 Disconnect the battery, set the mirror position by hand, connect the battery, and check the retractable mirror

Condition Pos Battery positive (+) → Terminal 3 (MR) Battery negative (-) → Terminal 9 (MF) Forw positive (A)	tion to retracted position	*a (E) (C) *AR (E) (B) AR (B) (B)
Battery negative (-) → Terminal 3 (MR) Battery positive (+) → Terminal 9 (MF)	III)ODS NOT	
Battery positive (+) → Terminal forw 3 (MR) positive (-) Battery (A) a drivity → Terminal positive (-) 9 (MF) (C)	ween Moves ard from (B) tion to and retracted ng position	
Battery negative (-) betwood of the positive (+) drivities (C)	ween Moves ard from (B) tion to and forward ng position	
Battery positive (+) → Terminal 3 (MR) Battery negative (-) → Terminal 9 (MF)		
Battery negative (-) → Terminal 3 (MR) Battery positive (+)		

→ Terminal 9 (MF)		
Battery positive (+) → Terminal 3 (MR) Battery negative (-) → Terminal 9 (MF)	Position between driving position (C) and retracted position (E)	Moves from (D) to retracted position (E)
Battery negative (-) → Terminal 3 (MR) Battery positive (+) → Terminal 9 (MF)	Position between driving position (C) and retracted position (E)	Moves from (D) to driving position (C)
Battery positive (+) → Terminal 3 (MR) Battery negative (-) → Terminal 9 (MF)	Retracted position (E)	Does not move
Battery negative (-) → Terminal 3 (MR) Battery positive (+) → Terminal 9 (MF)	Retracted position (E)	Moves from (E) to driving position (C)

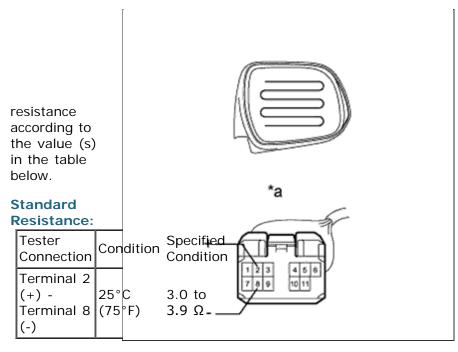
- Disconnect and reconnect the battery between each mirror position check.
- Do not apply battery voltage when moving the mirror by hand into each mirror position.

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

Text in Illustration

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

- c. w/ Mirror Heater: Check the mirror heater.
 - i. Measure the



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

ii. Apply battery voltage and check the operation of the mirror heater.

OK:

Measurement	Specified
Condition	Condition
Battery positive (+) → Terminal 2 (+) Battery negative (-) → Terminal 8 (-)	Mirror becomes warm

HINT:

It will take a short time for the mirror to become warm.

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

Text in Illustration

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

