

INSPECTION

1. Rear View adjustment switch: INSPECT MIRROR SWITCH CONTINUITY

Left side:

Switch position	Tester connection	Specified condition
OFF	–	No continuity
UP	3 – 12 8 – 11	Continuity
DOWN	3 – 8 11 – 12	Continuity
LEFT	2 – 12 8 – 11	Continuity
RIGHT	2 – 8 11 – 12	Continuity

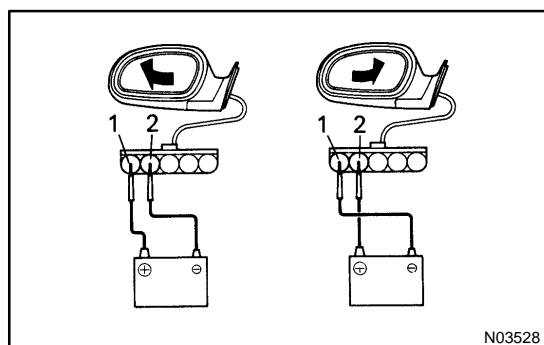
Right side:

Switch position	Tester connection	Specified condition
OFF	–	No continuity
UP	8 – 11 10 – 12	Continuity
DOWN	8 – 10 11 – 12	Continuity
LEFT	8 – 11 9 – 12	Continuity
RIGHT	8 – 9 11 – 12	Continuity

Left/Right select switch:

Switch position	Tester connection	Specified condition
OFF	–	No continuity
LEFT	2 – 9 3 – 10	Continuity
RIGHT	2 – 9 3 – 10	Continuity

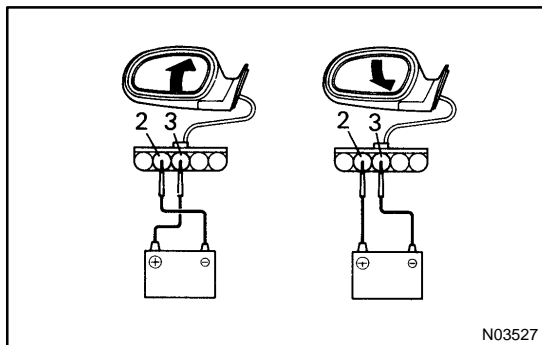
If continuity is not as specified, replace the switch.



2. w/o Driving position memory:

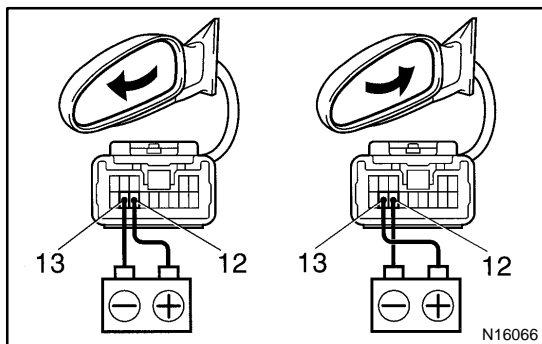
INSPECT MIRROR MOTOR OPERATION

- Connect the positive (+) lead from the battery to terminal 1 and negative (–) lead to terminal 2, then check that the mirror turns to left side.
- Reverse the polarity and check that the mirror turns to right side.



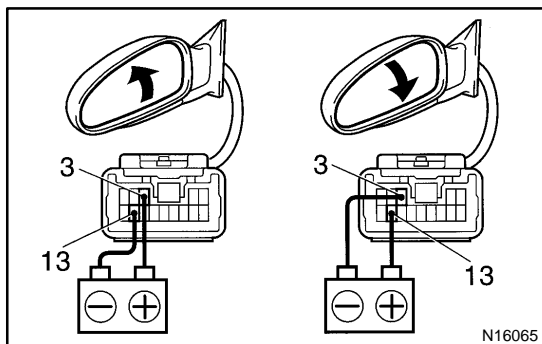
- (c) Connect the positive (+) lead from the battery to terminal 3 and negative (–) lead to terminal 2, then check that the mirror turns upward.
- (d) Reverse the polarity and check that the mirror turns downward.

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



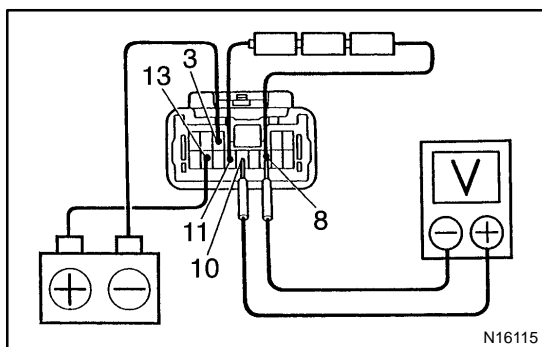
3. w/ Driving position memory: INSPECT MIRROR MOTOR OPERATION

- (a) Connect the positive (+) lead from the battery to terminal 12 and negative (–) lead to terminal 13, then check that the mirror turns to left side.
- (b) Reverse the polarity and check that the mirror turns to right side.



- (c) Connect the positive (+) lead from the battery to terminal 3 and negative (–) lead to terminal 13, then check that the mirror turns upward.
- (d) Reverse the polarity and check that the mirror turns downward.

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



4. INSPECT MIRROR POSITION SENSORS

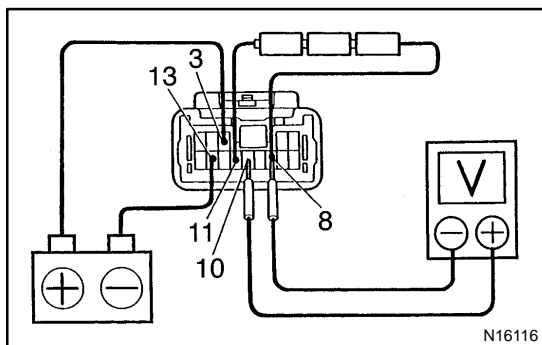
HINT:

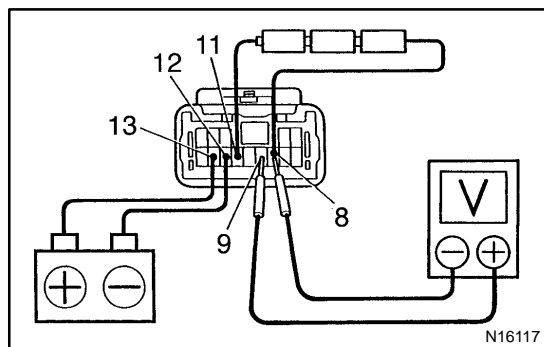
Strip off the vinyl tape of the connector and remove terminals 3, 8, 10, 11 and 13 from the connector housing.

- (a) Connect a series of three 1.5 V dry cell batteries.
- (b) Connect the positive (+) lead from the dry cell batteries to terminal 11 and the negative (–) lead to terminal 8.
- (c) Connect the positive (+) lead from the voltmeter to terminal 10 and the negative (–) lead to terminal 8.
- (d) Apply battery positive voltage to terminals 3 and 13, then check that the voltage gradually changes according to the table below while the mirror moves between the uppermost position and lowermost position.

Mirror position	Lowermost	Mirror position	Uppermost
Voltage	2.8 – 5.0	Changes gradually	0 – 0.9

If voltage value is not as specified, replace the motor assembly.

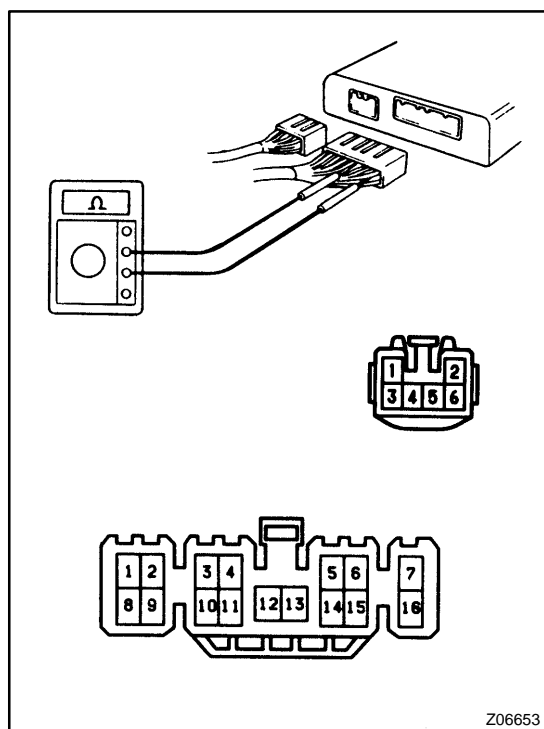
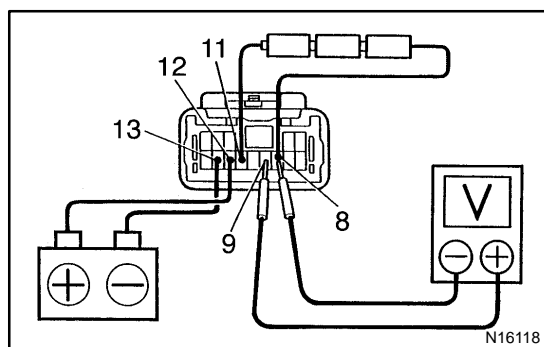




- (e) Disconnect the 2 leads of the battery and voltmeter.
- (f) Connect the positive (+) lead from the voltmeter to terminal 9 and negative (–) lead to terminal 8.
- (g) Apply battery positive voltage to terminals 12 and 13, then inspect that the voltage gradually changes according to the table below while the mirror moves between the leftmost position and rightmost position.

Mirror position	Leftmost	Mirror position	Rightmost
Voltage LEFT	2.8 – 5.0	Changes gradually	0 – 0.9
Voltage RIGHT	0 – 0.9	Changes gradually	2.8 – 5.0

If voltage value is not as specified, replace the motor assembly.



5. Wire Harness Side: INSPECT MIRROR ECU CIRCUIT

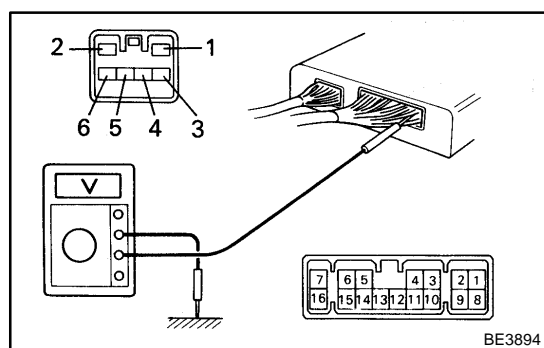
Disconnect the connectors from the ECU and inspect the connector on the wire harness side, as shown in the chart below.

Tester connection	Condition	Specified condition
A1 – A2	Constant	Continuity
A1 – A3	Constant	Continuity
A8 – A10	Constant	Continuity
A9 – A10	Constant	Continuity
A11 – Ground	Constant	Continuity
A12 – A13	Constant	Continuity
A16 – *	Constant	Continuity
B1 – B2	Right mirror switch DOWN	Continuity

B1 – B4	Right mirror switch RIGHT	Continuity
B1 – B5	Left mirror switch RIGHT	Continuity
B1 – B6	Left mirror switch DOWN	Continuity
B2 – B3	Right mirror switch UP	Continuity
B3 – B4	Right mirror switch LEFT	Continuity
B3 – B5	Left mirror switch LEFT	Continuity
B3 – B6	Left mirror switch UP	Continuity
A4 – Ground	Constant	Battery positive voltage
A7 – Ground	Ignition switch OFF	No voltage
A7 – Ground	Ignition switch ACC	Battery positive voltage

*: Terminal 1/18 of the Tilt and Telescopic ECU

If circuit is not as specified, inspect the wire harness and mirror switch or motor assembly.



6. Connector Connected:

INSPECT MIRROR ECU OPERATION

Connect the connectors and using a voltmeter with high impedance (10 k Ω /V minimum), measure the voltage at each terminal and body ground.

Tester connection	Condition	Specified condition
A1 – Ground	Right mirror switch LEFT	Battery positive voltage
A2 – Ground	Right mirror switch UP	Battery positive voltage
A3 – Ground	Right mirror switch RIGHT or DOWN	Battery positive voltage
* A5 – Ground	Right mirror switch leftmost	0 – 0.9 V
* A5 – Ground	Right mirror switch rightmost	2.8 – 5.0 V
* A6 – Ground	Right mirror switch lowermost	2.8 – 5.0 V
* A6 – Ground	Right mirror switch uppermost	0 – 0.9 V
A8 – Ground	Left mirror switch RIGHT	Battery positive voltage
A9 – Ground	Left mirror switch UP	Battery positive voltage
A10 – Ground	Left mirror switch LEFT or DOWN	Battery positive voltage
A13 – Ground	Right or left mirror switch to any position except OFF	Approx. 5 V
* A14 – Ground	Left mirror switch leftmost	2.8 – 5.0 V
* A14 – Ground	Left mirror switch rightmost	0 – 0.9 V
* A15 – Ground	Left mirror switch lowermost	2.8 – 5.0 V
* A15 – Ground	Left mirror switch uppermost	0 – 0.9 V
B2 – Ground	Constant	Approx. 5 V
B4 – Ground	Constant	Approx. 5 V
B5 – Ground	Constant	Approx. 5 V
B6 – Ground	Constant	Approx. 5 V

*: Confirm that the voltage changes gradually while the mirror moves.

If operation is not as specified, inspect the wire harness and mirror switch or motor assembly. Then if these are correct, replace the ECU.