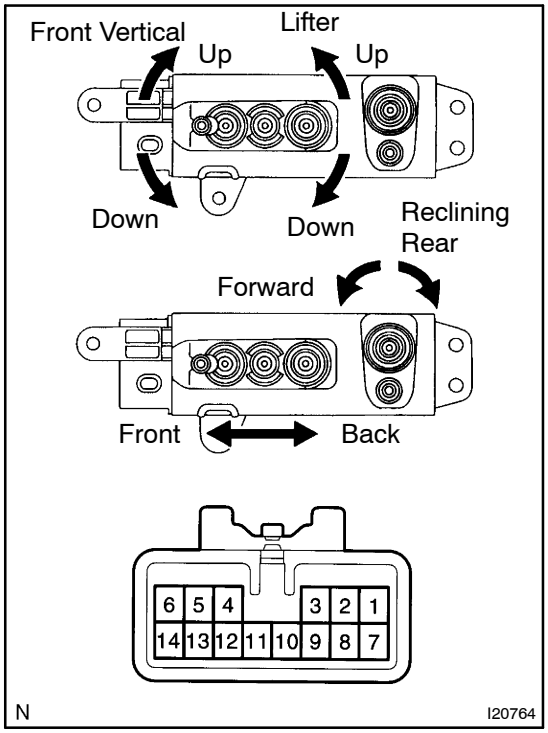


BE22A–01

INSPECTION

1. INSPECT FRONT PASSENGER'S POWER SEAT SWITCH CONTINUITY

Slide switch:

Switch position	Tester connection	Specified condition
FRONT	1 – 9 4 – 6	Continuity
OFF	4 – 6 4 – 9	Continuity
BACK	1 – 6 4 – 9	Continuity

Reclining switch:

Switch position	Tester connection	Specified condition
FORWARD	1 – 3 2 – 4	Continuity
OFF	2 – 4 3 – 4	Continuity
REAR	1 – 2 3 – 4	Continuity

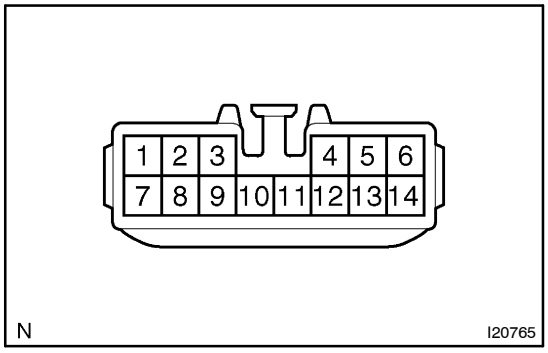
Front vertical switch:

Switch position	Tester connection	Specified condition
FORWARD	1 – 3 2 – 4	Continuity
OFF	2 – 4 3 – 4	Continuity
REAR	1 – 2 3 – 4	Continuity

Lifter switch:

Switch position	Tester connection	Specified condition
FORWARD	1 – 3 2 – 4	Continuity
OFF	2 – 4 3 – 4	Continuity
REAR	1 – 2 3 – 4	Continuity

If continuity is not as specified, replace the switch.



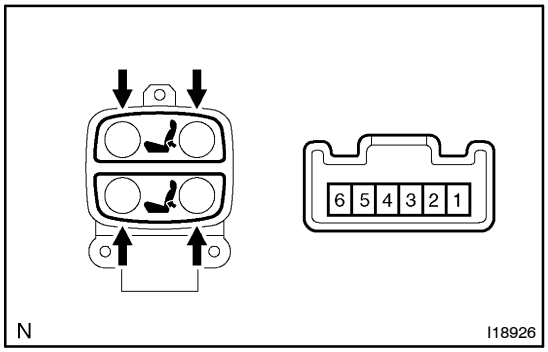
2. INSPECT FRONT PASSENGER'S POWER SEAT SWITCH CIRCUIT

(a) Disconnect the switch connector and connect the seat wire harness to the floor wire harness.

(b) Inspect the connector on the wire harness side.

Tester connection	Condition	Specified condition
6 – Ground	Constant	Continuity
1 – Ground	Constant	Battery positive voltage

If circuit is not as specified, inspect the circuits connected to other parts.



3. INSPECT DRIVER'S LUMBAR SUPPORT SWITCH CONTINUITY

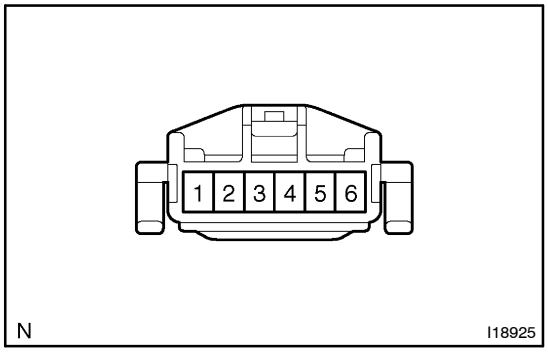
Upper side control:

Switch position	Tester connection	Specified condition
FORWARD	5 – 1 4 – 6	Continuity
OFF	1 – 6 4 – 6	Continuity
RELEASE	1 – 6 4 – 5	Continuity

Lower side control:

Switch position	Tester connection	Specified condition
FORWARD	2 – 5 3 – 6	Continuity
OFF	2 – 6 3 – 6	Continuity
RELEASE	2 – 6 3 – 5	Continuity

If continuity is not as specified, replace the switch.



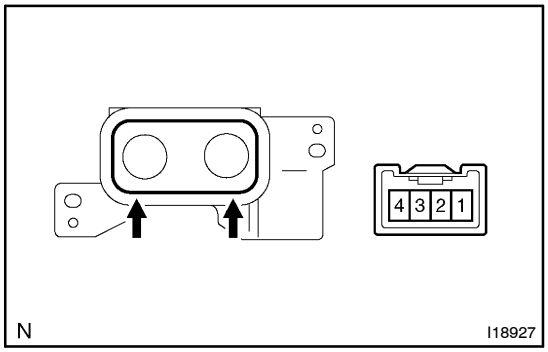
4. INSPECT DRIVER'S LUMBAR SUPPORT SWITCH CIRCUIT

(a) Disconnect the switch connector and connect the seat wire harness to the floor wire harness.

(b) Inspect the connector on the wire harness side.

Tester connection	Condition	Specified condition
6 – Ground	Constant	Continuity
5 – Ground	Constant	Battery positive voltage

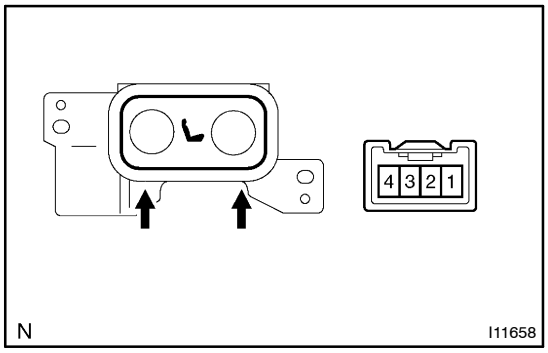
If circuit is not as specified, inspect the circuits connected to other parts.



5. INSPECT DRIVER'S SEAT CUSHION SWITCH CIRCUIT

Switch position	Tester connection	Specified condition
FORWARD	1 – 4	Continuity
OFF	–	–
RELEASE	2 – 4	Continuity

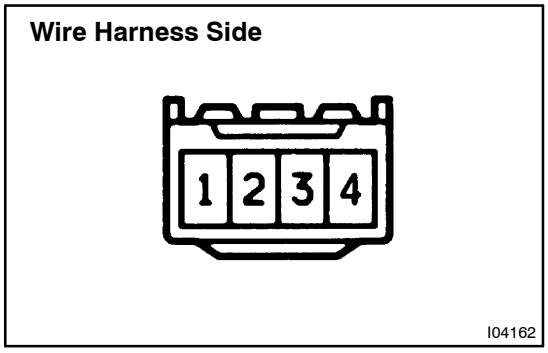
If continuity is not as specified, replace the switch.



6. INSPECT PASSENGER'S LUMBAR SUPPORT SWITCH CIRCUIT

Switch position	Tester connection	Specified condition
FORWARD	1 – 4 2 – 3	Continuity
OFF	1 – 3 2 – 3 2 – 4	Continuity
RELEASE	1 – 3 2 – 4	Continuity

If continuity is not as specified, replace the switch.



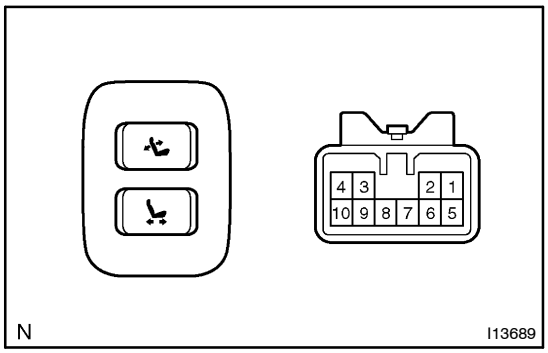
7. INSPECT PASSENGER'S LUMBAR SUPPORT SWITCH CIRCUIT

(a) Disconnect the switch connector and connect the seat wire harness to the floor wire harness.

(b) Inspect the connector on the wire harness side.

Tester connection	Condition	Specified condition
3 – Ground	Constant	Continuity
4 – Ground	Constant	Battery positive voltage

If circuit is not as specified, inspect the circuits connected to other parts.



8. INSPECT PASSENGER POWER SEAT SUB SWITCH CONTINUITY

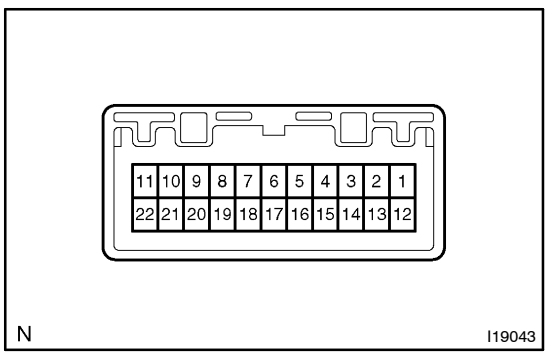
Slide switch:

Switch position	Tester connection	Specified condition
FRONT	5 – 10	Continuity
OFF	–	Continuity
REAR	6 – 10	Continuity

Reclining switch:

Switch position	Tester connection	Specified condition
FRONT	4 – 10	Continuity
OFF	–	Continuity
REAR	9 – 10	Continuity

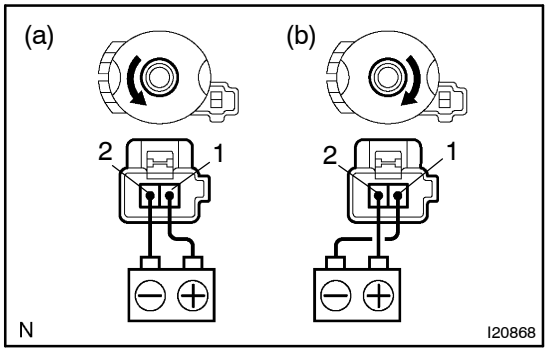
If continuity is not as specified, replace the switch.



9. INSPECT REAR SEAT RETURN SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
ON	6 – 9	Continuity

If continuity is not as specified, replace the switch.

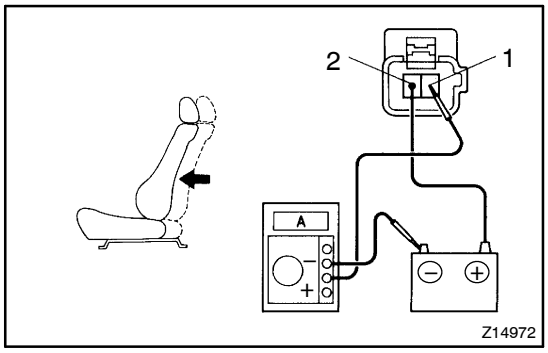


10. Front seat:
INSPECT SLIDE MOTOR OPERATION

(a) Connect the positive (+) lead from the battery to terminal 2 and the negative (–) lead to terminal 1 and check that the motor turns counterclockwise.

(b) Reverse the polarity and check that the motor turns clockwise.

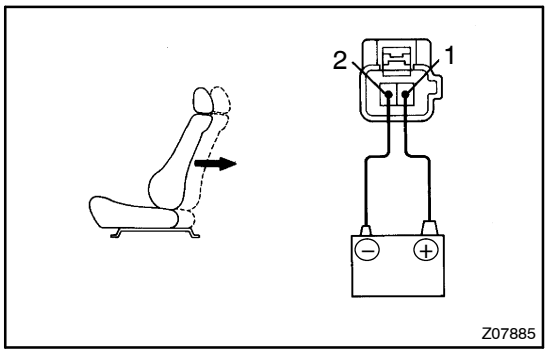
If operation is not as specified, replace the motor.



11. Front seat:
INSPECT SLIDE MOTOR PTC THERMISTOR OPERATION ( ) : Passenger's seat

(a) Connect the positive (+) lead from the battery to terminal 2(1), the positive (+) lead from the ammeter to terminal 1(2), and the negative (–) lead to battery negative (–) terminal, then move the seat to front position.

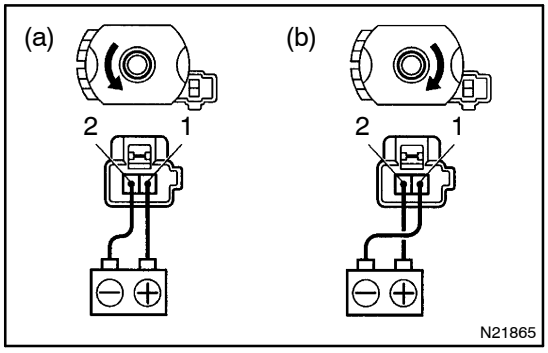
(b) Continue to apply voltage and check that the current changes to less than 1 ampere with 4 to 90 seconds.



(c) Disconnect the lead from terminals.

(d) Approximately 60 seconds later, connect the positive (+) lead from battery to terminal 1(2) and the negative (–) lead to terminal 2(1) and check that the seat begins to move backwards.

If operation is not as specified, replace the motor.

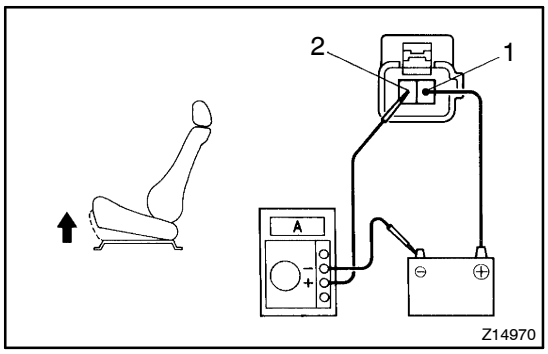


12. Front seat:
INSPECT FRONT VERTICAL MOTOR OPERATION ( ) : Passenger's seat

(a) Connect the positive (+) lead from the battery to terminal 2 and the negative (–) lead to terminal 1 and check that the motor turns clockwise.

(b) Reverse the polarity and check that the motor turns counterclockwise.

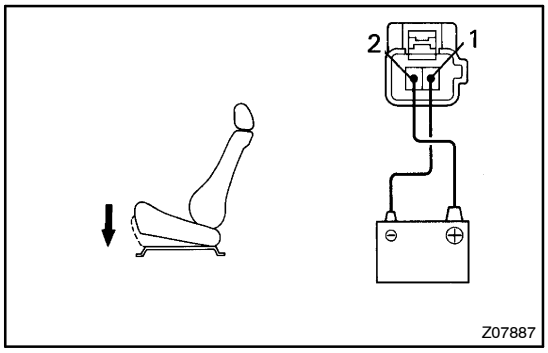
If operation is not as specified, replace the motor.



13. Front seat:
INSPECT FRONT VERTICAL MOTOR PTC THERMISTOR OPERATION ( ) : Passenger's seat

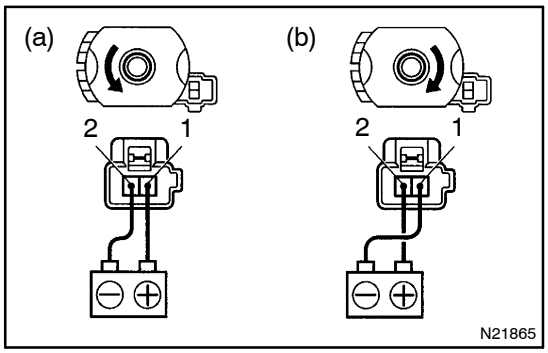
(a) Connect the positive (+) lead from the battery to terminal 1(2), the positive (+) lead from the ammeter to terminal 2(1) and the negative (–) lead to battery negative (–) terminal, then move the front edge of seat cushion to the highest position.

(b) Continue to apply voltage, and check the current changes to less than 1 ampere with 4 to 90 seconds.



(c) Disconnect the leads from terminals.
(d) Approximately 60 seconds later, connect the positive (+) lead from battery to terminal 2(1) and the negative (–) lead to terminal 1(2), and check that the seat cushion begins to descend.

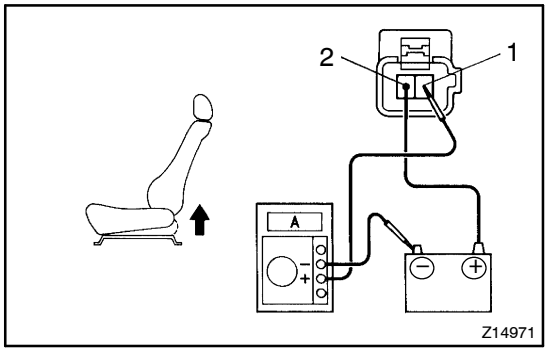
If operation is not as specified, replace the motor.



14. Front seat:
INSPECT LIFTER MOTOR OPERATION

(a) Connect the positive (+) lead from the battery to terminal 2 and the negative (–) lead to terminal 1, and check that the motor turns clockwise.
(b) Reverse the polarity, and check that the motor turns counterclockwise.

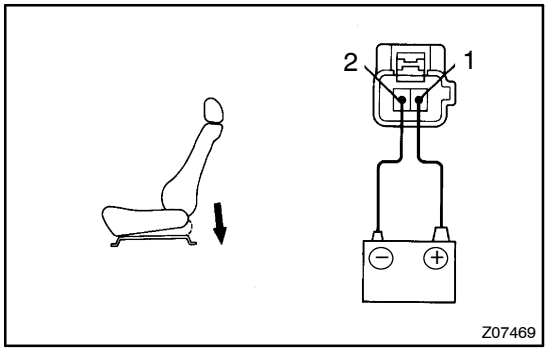
If operation is not as specified, replace the motor.

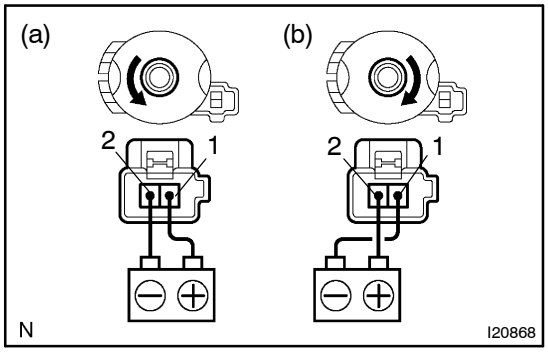


15. Front seat:
INSPECT LIFTER MOTOR PTC THERMISTOR OPERATION ( ) : Passenger's seat

(a) Connect the positive (+) lead from the battery to terminal 2(1), the positive (+) lead from the ammeter to terminal 1(2) and the negative (–) lead to battery negative (–) terminal, then move the rear edge of seat cushion to the highest position.
(b) Continue to apply voltage, and check that the current changes to less than 1 ampere with 4 to 90 seconds.
(c) Disconnect the leads from terminals.
(d) Approximately 60 seconds later, connect the positive (+) lead from battery to terminal 1(2) and the negative (–) lead to terminal 2(1), and check that the seat cushion begins to descend.

If operation is not as specified, replace the motor.



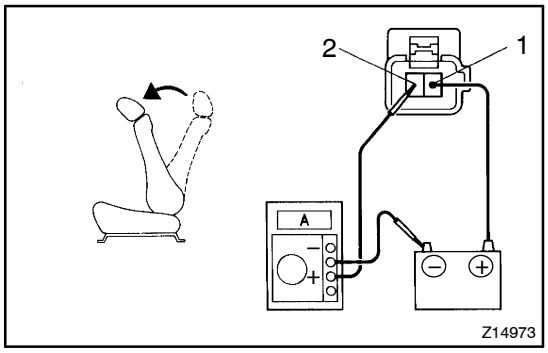


16. Front seat:
INSPECT RECLINING MOTOR OPERATION

(a) Connect the positive (+) lead from the battery to terminal 2 and the negative (–) lead to terminal 1, and check that the motor turns counterclockwise.

(b) Reverse the polarity, and check that the motor turns clockwise.

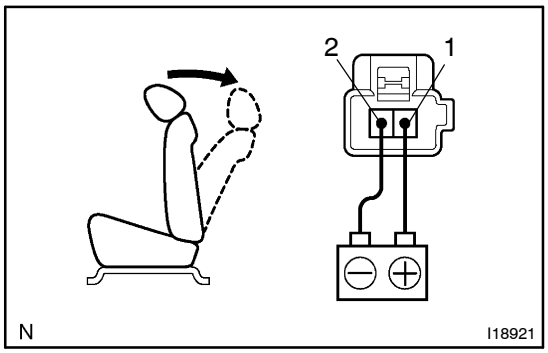
If operation is not as specified, replace the motor.



17. Front seat:
INSPECT RECLINING MOTOR PTC THERMISTOR OPERATION

(a) Connect the positive (+) lead from the battery to terminal 1, the positive (+) lead from the ammeter to terminal 2 and the negative (–) lead to battery negative (–) terminal, then recline the seat back to the most forward position.

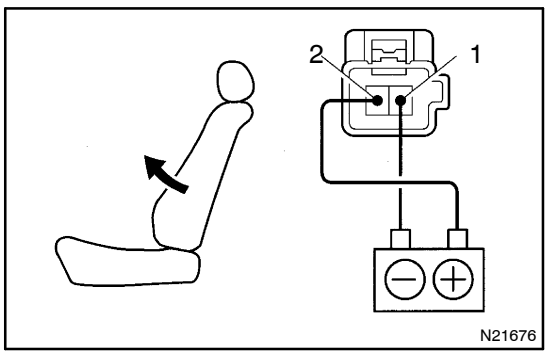
(b) Continue to apply voltage, and check that the current change to less than 1 ampere with 4 to 90 seconds.



(c) Disconnect the lead from terminals.

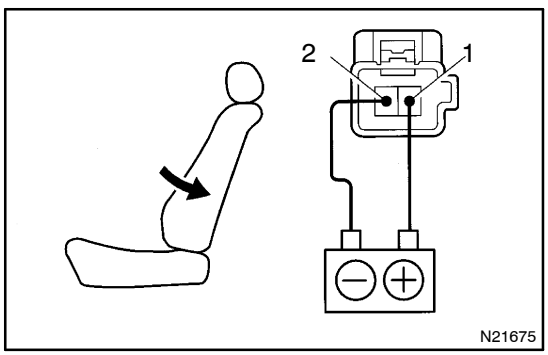
(d) Approximately 60 seconds later, connect the positive (+) lead from battery to terminal 2 and the negative (–) lead to terminal 1, check that the seat back starts to fall backwards.

If operation is not as specified, replace the motor.



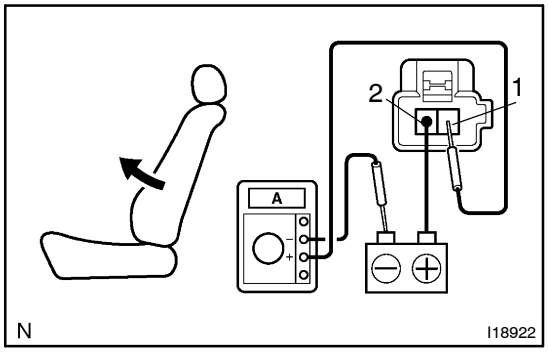
18. Front seat:
INSPECT LUMBAR SUPPORT MOTOR OPERATION
( ) : Driver's Upper Side Control

(a) Connect the positive (+) lead from the battery to terminal 1(2) and the negative (–) lead to terminal 2(1), and check that the lumbar support moves release side.



(b) Reverse the polarity, and check that the lumbar support moves forward.

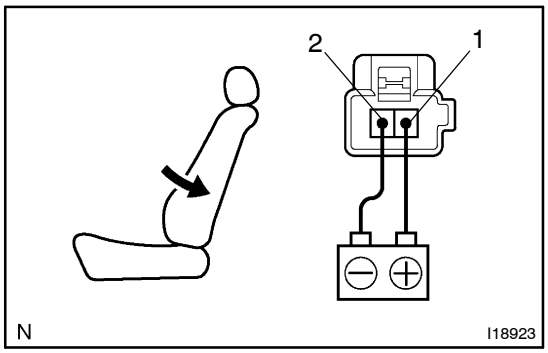
If operation is not as specified, replace the motor.



19. Front seat:
INSPECT LUMBAR SUPPORT MOTOR PTC THERMISTOR OPERATION
( ) : Driver's Upper Side Control

(a) Connect the positive (+) lead from the battery to terminal 2(1), the positive (+) lead from the ammeter to terminal 1(2) and the negative (–) lead to battery negative (–) terminal, then move the front edge of seat cushion to the highest position.

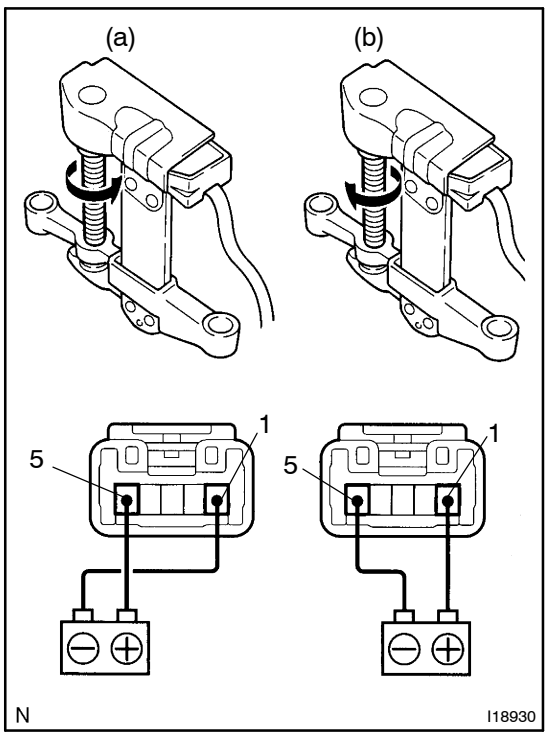
(b) Continue to apply voltage, and check that the current changes to less than 1 ampere with 4 to 90 seconds.



(c) Disconnect the leads from terminals.

(d) Approximately 60 seconds later, connect the positive (+) lead from battery to terminal 1(2), and the negative (–) lead to terminal 2(1), and check that the seat cushion begins to descend.

If operation is not as specified, replace the motor.

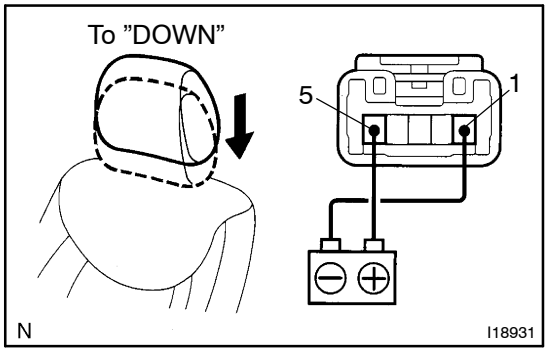


20. Front seat:
INSPECT HEADREST MOTOR OPERATION

(a) Connect the positive (+) lead from the battery to terminal 1, and the negative (–) lead to terminal 5, and check that the motor turns counterclockwise.

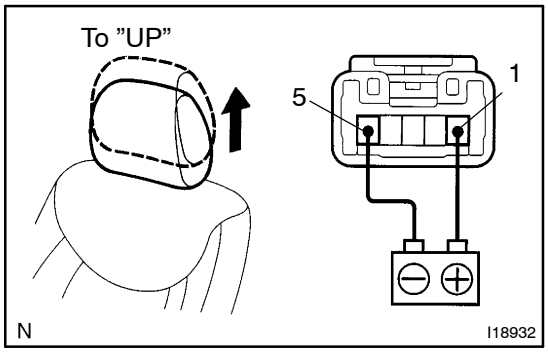
(b) Reverse the polarity, and check that the motor turns clockwise.

If operation is not as specified, replace the motor.



21. Front seat:
INSPECT HEADREST MOTOR CIRCUIT BREAKER OPERATION

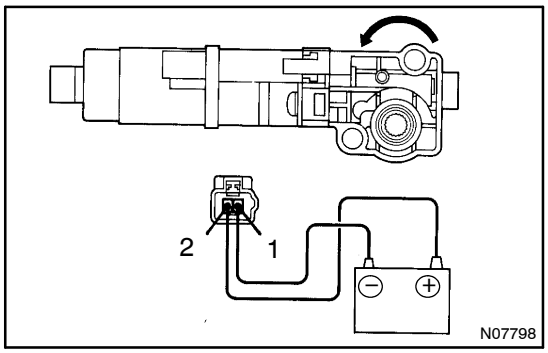
(a) Connect the positive (+) lead from the battery to terminal 1 and the negative (–) lead to terminal 5 on the motor connector and move the headrest to DOWN position.



(b) Continue to apply voltage, check that there is a circuit breaker operation noise within 4 to 60 seconds.

(c) Reverse the polarity check that the headrest begins to move UP side within approx. 60 seconds.

If operation is not as specified, replace the motor.

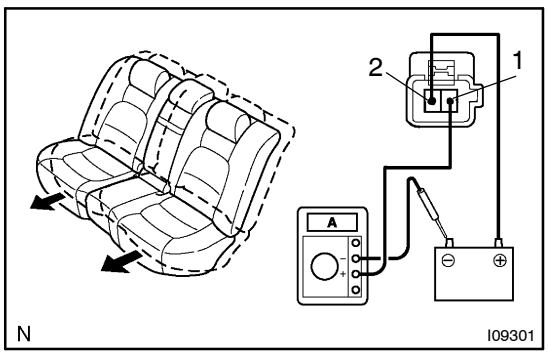


22. Rear seat:
INSPECT SLIDE MOTOR OPERATION

(a) Connect the positive (+) lead from the battery to terminal 2 and the negative (–) lead to terminal 1 and check that the motor turns counterclockwise.

(b) Reverse the polarity and check that the motor turns clockwise.

If operation is not as specified, replace the motor.



23. Rear seat:
INSPECT SLIDE MOTOR PTC THERMISTOR OPERATION
( ) : LH Seat Side Control

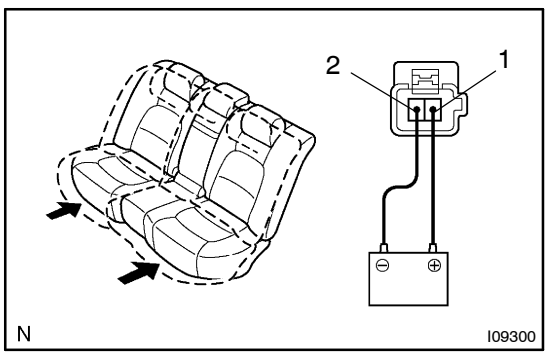
(a) Connect the positive (+) lead from the battery to terminal 2(1), the positive (+) lead from the ammeter to terminal 1(2) and the negative (–) lead to battery negative (–) terminal, then move the seat to front position.

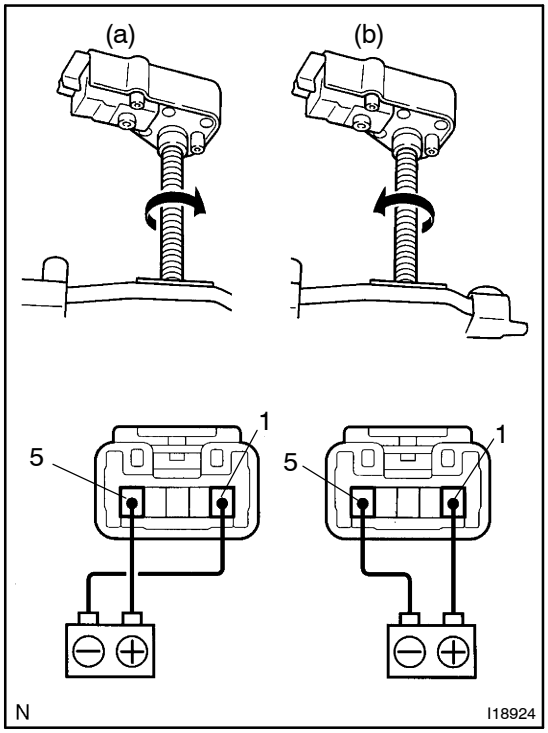
(b) Continue to apply voltage and check that the current changes to less than 1 ampere with 4 to 90 seconds.

(c) Disconnect the leads from terminals.

(d) Approximately 60 seconds later, connect the positive (+) lead from battery to terminal 1(2), and the negative (–) lead to terminal 2(1), and check that the seat begins to move backwards.

If operation is not as specified, replace the motor.



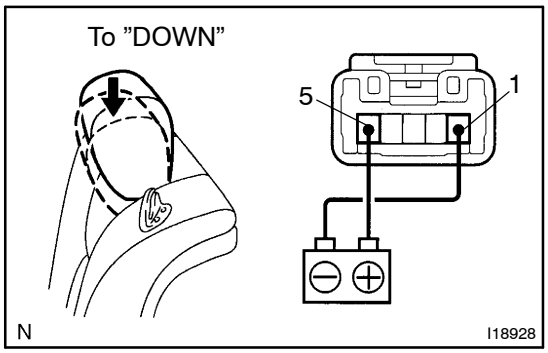


24. Rear seat:
INSPECT HEADREST MOTOR OPERATION

(a) Connect the positive (+) lead from the battery to terminal 1, and the negative (–) lead to terminal 5, and check that the motor turns counterclockwise.

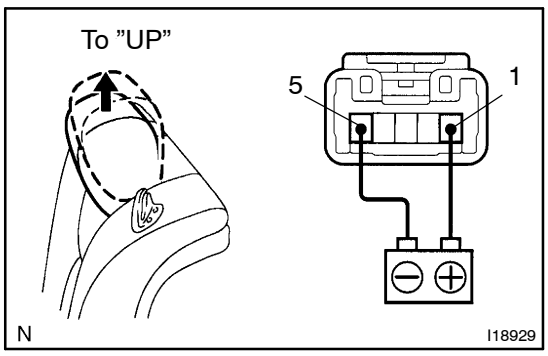
(b) Reverse the polarity, and check that the motor turns clockwise.

If operation is not as specified, replace the motor.



25. Rear seat:
INSPECT HEADREST MOTOR CIRCUIT BREAKER OPERATION

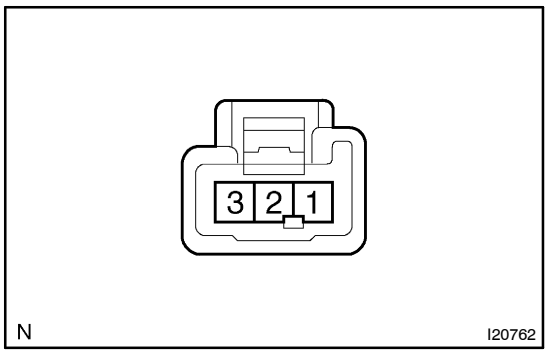
(a) Connect the positive (+) lead from the battery to terminal 1 and the negative (–) lead to terminal 5 on the motor connector and move the headrest to DOWN position.



(b) Continue to apply voltage, check that there is a circuit breaker operation noise within 4 to 60 seconds.

(c) Reverse the polarity check that the headrest begins to move UP side within approx. 60 seconds.

If operation is not as specified, replace the motor.

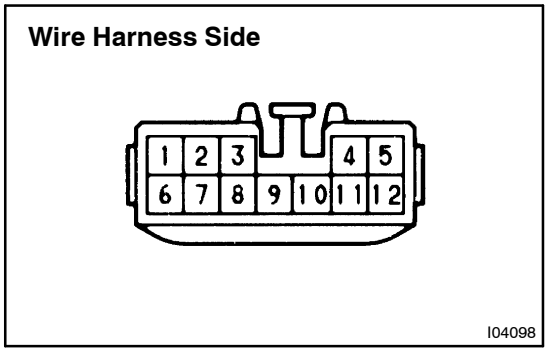


26. INSPECT SEAT VIBRATOR

Measure the resistance between terminals.

Between terminals	Resistance(Ω)
1 – 2	1.8 ± 0.3
1 or 2 – Body ground	5M
3 – Body ground	0

If resistance value is not as specified, replace the vibrator assembly.

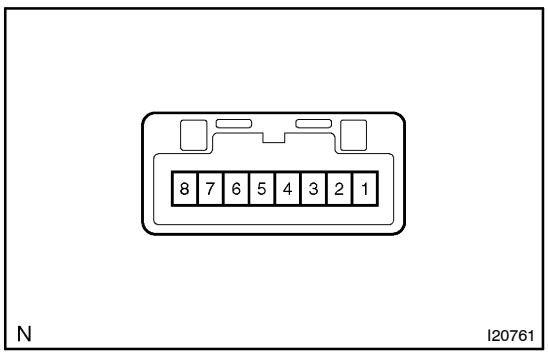


27. INSPECT VIBRATOR ECU CIRCUIT

Inspect the connector on the wire harness side.

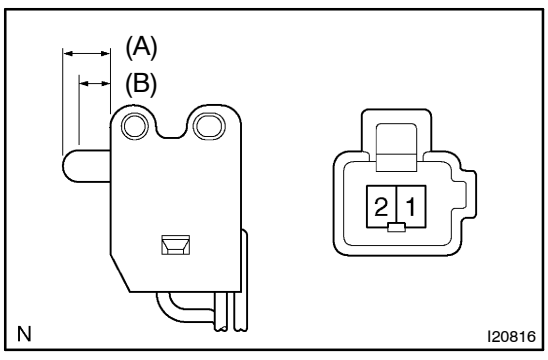
Tester connection	Condition	Specified condition
1 – 6	Constance	Continuity
2 – Body ground	Seat vibrator switch ON	Continuity
5 – Body ground	Ignition switch ON	Battery positive voltage
7 – Body ground	Seat vibration switch OFF	Continuity
10 – Body ground	Constance	Continuity
12 – Body ground	Constance	Continuity
6 – 2 (connector connected)	Ignition switch ON and seat Vibrator switch ON	Battery positive voltage

If continuity is not as specified, replace the seat vibration ECU.



28. INSPECT REAR SEAT MEMORY SWITCH

Switch position	Tester connection	Specified condition
SET switch ON	1 – 7	Continuity
M switch ON	1 – 5	Continuity
C switch ON	1 – 2	Continuity



29. INSPECT REAR SEAT HEADREST LIMIT SWITCH

Shafft length	Tester connection	Specified condition
12mm (A)	–	Continuity
8.5mm (B)	1 – 2	Continuity

Measure the resistance between terminals.

If resistance value is not as specified, replace the vibrator assembly.