

2005 Toyota RAV4
2005 ACCESSORIES & EQUIPMENT Power Door Lock Control System - RAV4

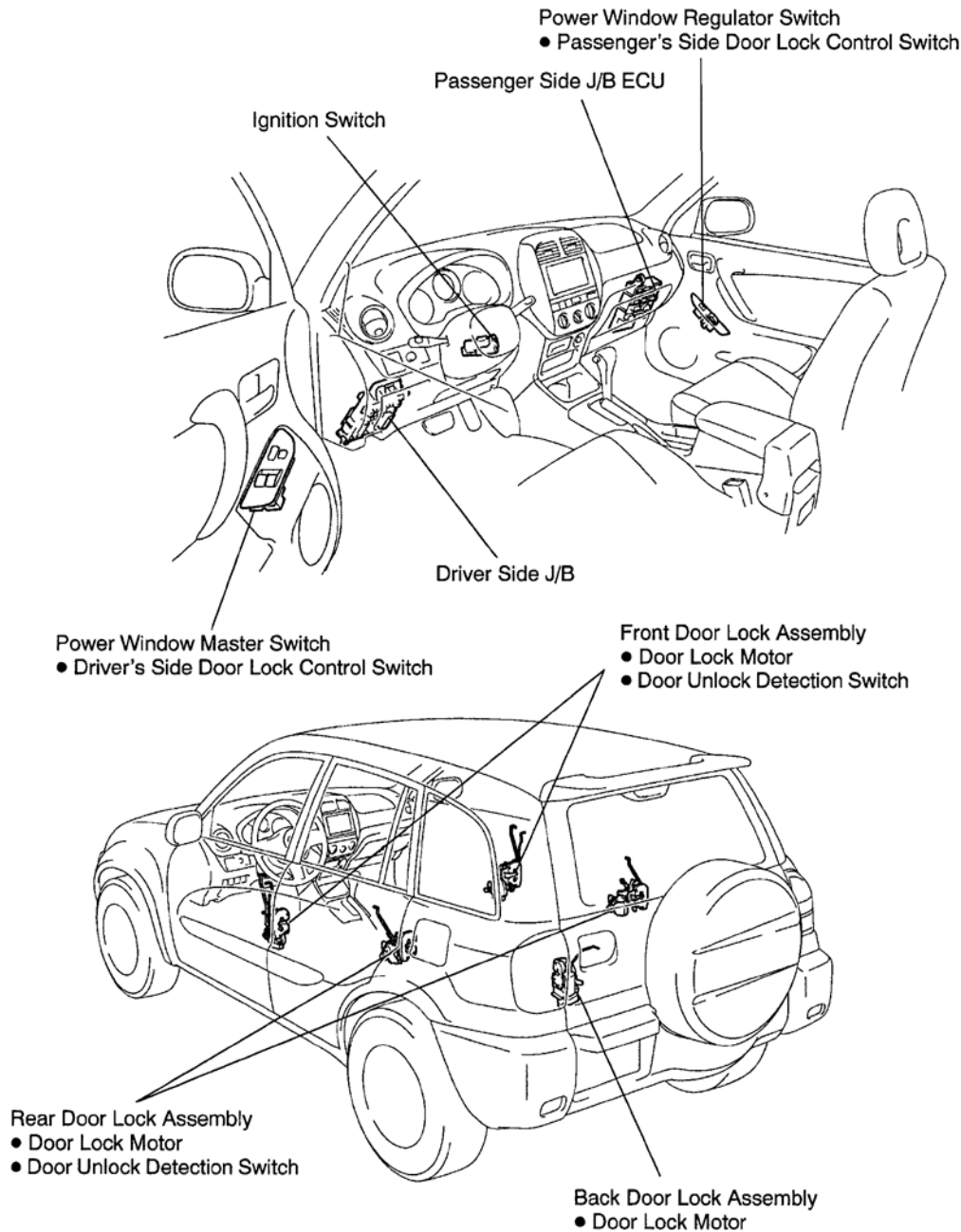
2005 ACCESSORIES & EQUIPMENT

Power Door Lock Control System - RAV4

LOCATION

2005 Toyota RAV4

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Fig. 1: Identifying Location Of Power Door Lock Control System Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

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1. Driver's door: INSPECT DOOR LOCK CONTROL SWITCH CONTINUITY

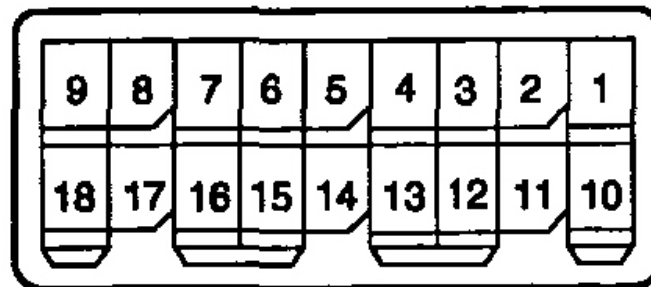
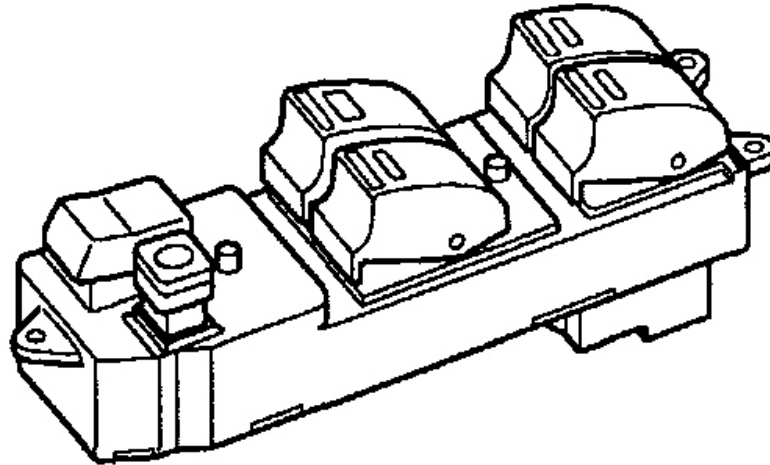
SWITCH POSITION SPECIFIED CONDITION

Switch Position	Tester Connection	Specified Condition
LOCK	1 - 3 - 5	Continuity
OFF	1 - 3	Continuity
UNLOCK	1 - 3 - 8	Continuity

If the continuity is not as specified, replace the switch.

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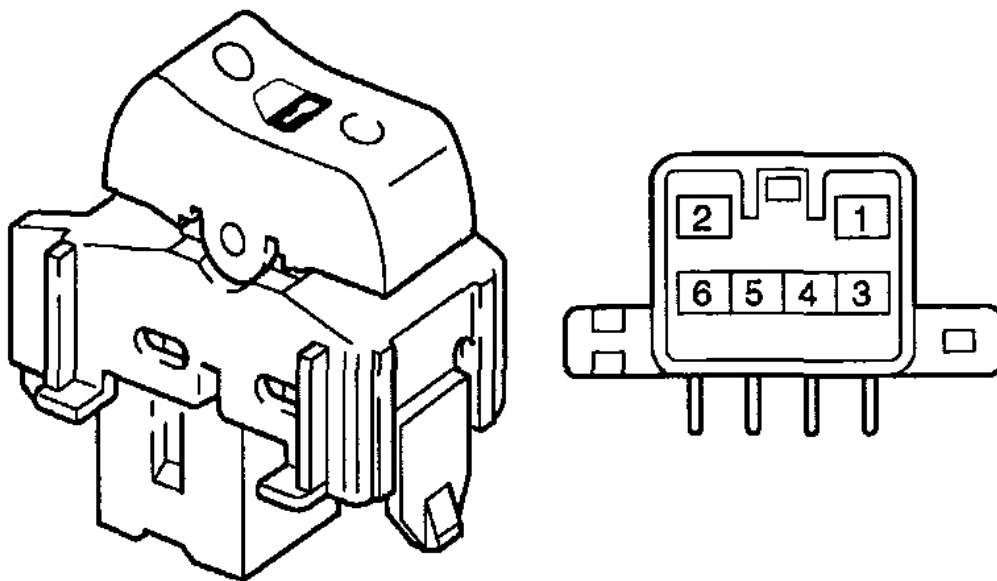
Fig. 2: Identifying Driver's Door Lock Control Switch & Terminals

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. Passenger's door: INSPECT DOOR LOCK CONTROL SWITCH CONTINUITY**SWITCH POSITION SPECIFIED CONDITION**

Switch Position	Tester Connection	Specified Condition
LOCK	3 - 6	Continuity
OFF	3 - 6 3 - 5	No continuity
UNLOCK	3 - 5	Continuity

If the continuity is not as specified, replace the switch.



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Fig. 3: Identifying Passenger's Door Lock Control Switch & Terminals

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. Driver's door: INSPECT DOOR KEY LOCK AND UNLOCK SWITCH CONTINUITY**SWITCH POSITION SPECIFIED CONDITION**

Switch Position	Tester Connection	Specified Condition

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LOCK	2 - 4	Continuity
OFF	2 - 4 2 - 3	No continuity
UNLOCK	2 - 3	Continuity

If the continuity is not as specified, replace the switch.

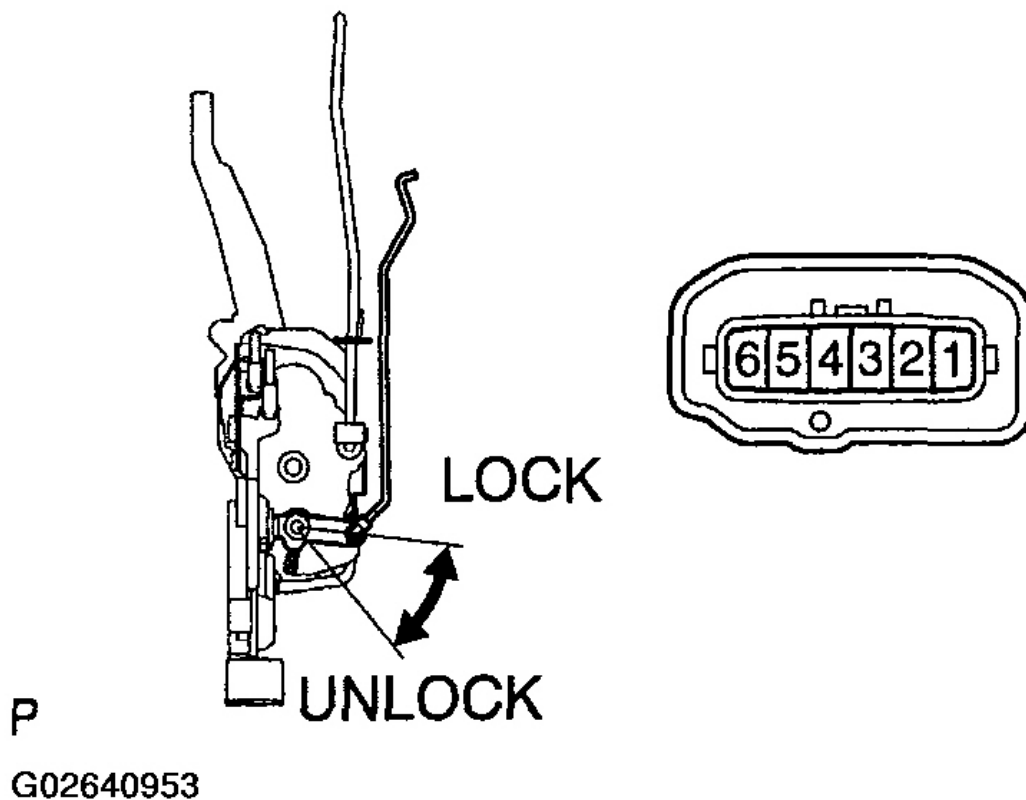


Fig. 4: Identifying Driver's Door Key Lock/ Unlock Switch Terminals
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. Passenger's door: INSPECT DOOR KEY LOCK AND UNLOCK SWITCH CONTINUITY

SWITCH POSITION SPECIFIED CONDITION

Switch Position	Tester Connection	Specified Condition
LOCK	3 - 5	Continuity
OFF	3 - 5 4 - 5	No continuity

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UNLOCK	4 - 5	Continuity
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If the continuity is not as specified, replace the switch.

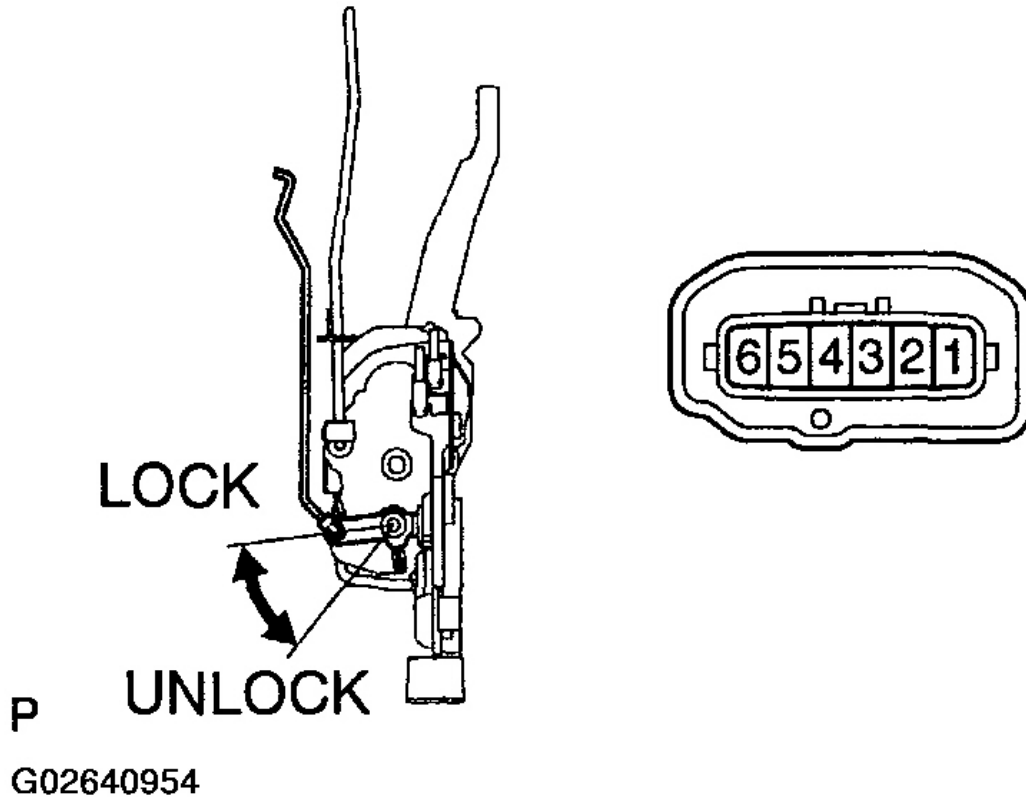


Fig. 5: Inspecting Passenger's Door Key Lock/ Unlock Switch Terminals

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. Back door: INSPECT DOOR KEY LOCK AND UNLOCK SWITCH CONTINUITY

SWITCH POSITION SPECIFIED CONDITION

Switch Position	Tester Connection	Specified Condition
LOCK	3 - 5	Continuity
OFF	3 - 4 4 - 5	No continuity
UNLOCK	4 - 5	Continuity

If the continuity is not as specified, replace the switch.

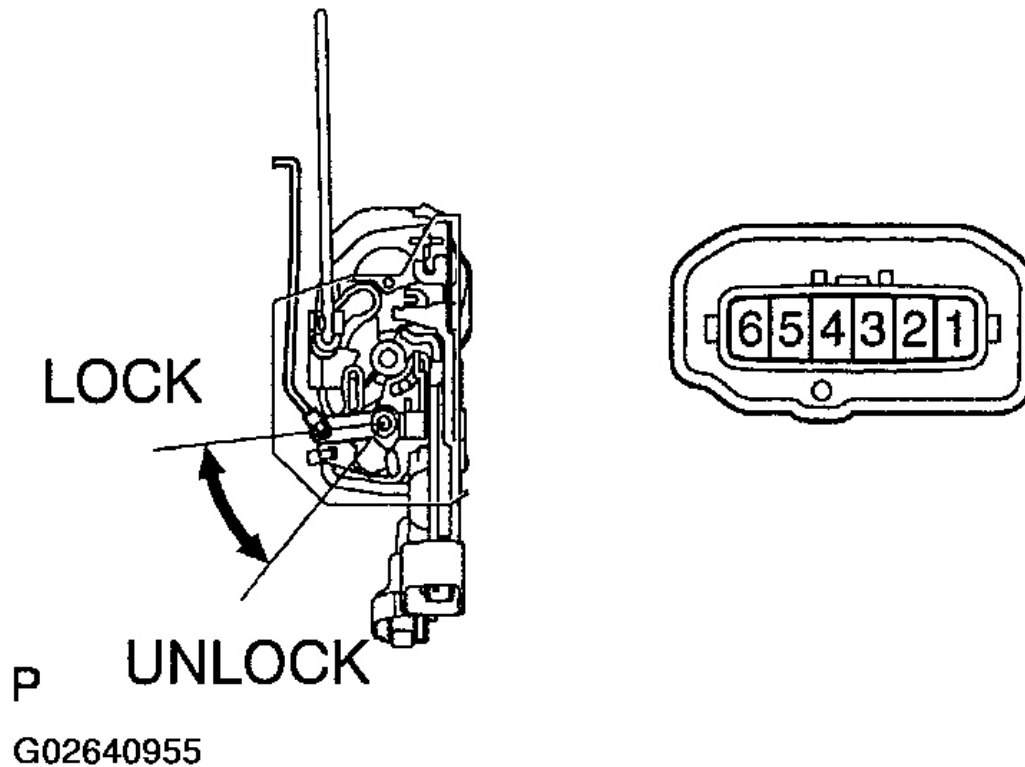


Fig. 6: Inspecting Back Door Key Lock/ Unlock Switch Terminals

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. Driver's door: INSPECT DOOR UNLOCK DETECTION SWITCH CONTINUITY

SWITCH POSITION SPECIFIED CONDITION

Switch Position	Tester Connection	Specified Condition
OFF (Door Lock set to LOCK)	1 - 2	No continuity
ON (Door Lock set to UNLOCK)	1 - 2	Continuity

If the continuity is not as specified, replace the switch.

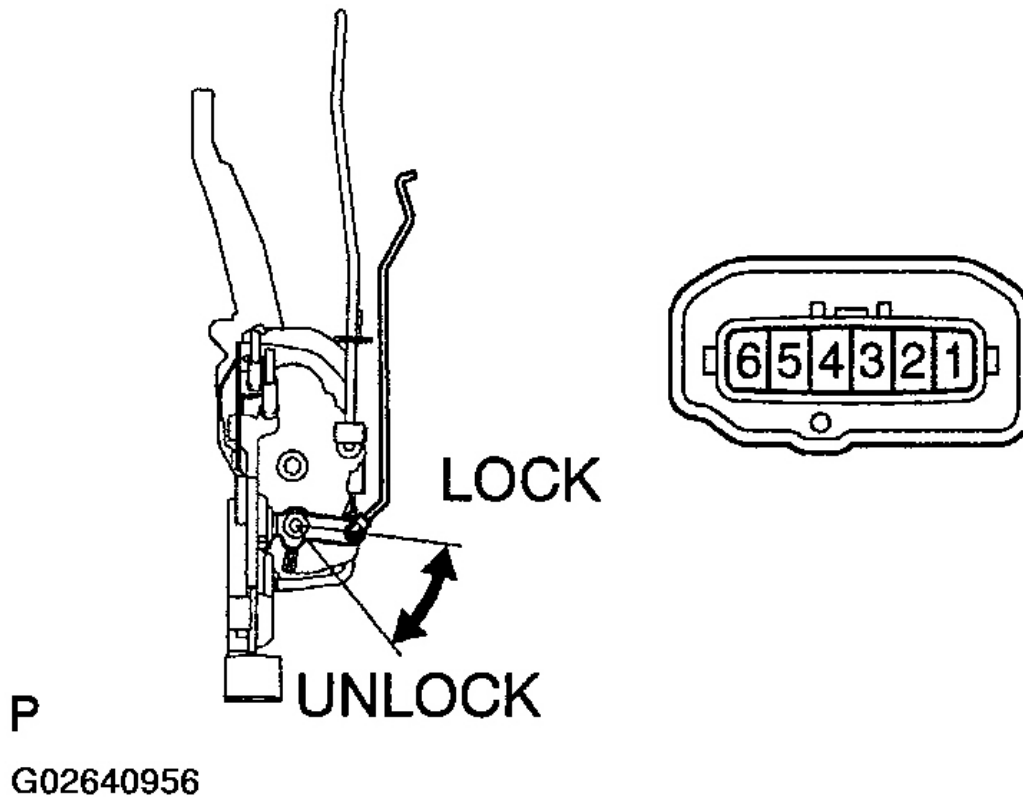


Fig. 7: Inspecting Driver's Door Unlock Detection Switch Terminals

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. Passenger's door: INSPECT DOOR UNLOCK DETECTION SWITCH CONTINUITY

SWITCH POSITION SPECIFIED CONDITION

Switch Position	Tester Connection	Specified Condition
OFF (Door Lock set to LOCK)	5 - 6	No continuity
ON (Door Lock set to UNLOCK)	5 - 6	Continuity

If the continuity is not as specified, replace the switch.

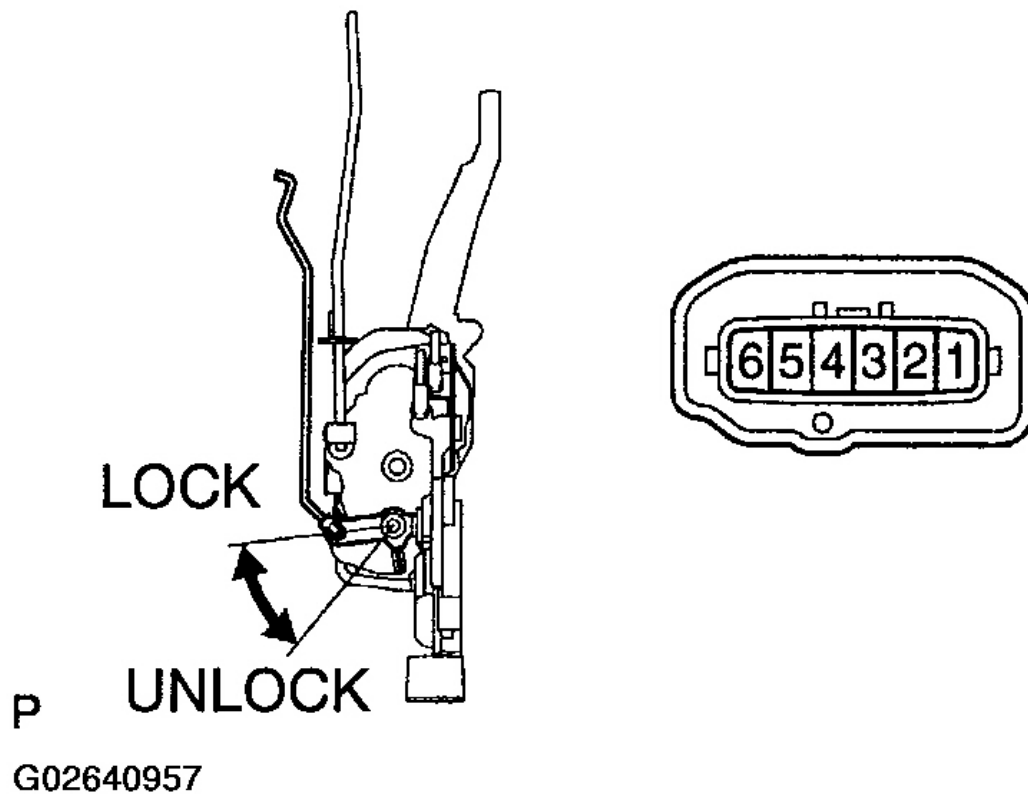


Fig. 8: Inspecting Passenger's Door Unlock Detection Switch Terminals

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

8. Driver's door: INSPECT DOOR LOCK MOTOR OPERATION

- a. Connect the positive (+) lead from the battery to terminal 6 and the negative (-) lead to terminal 5. Check if the door lock link moves to the UNLOCK position.
- b. Reverse the polarity and check if the door lock link moves to the LOCK position.

If operation is not as specified, replace the door lock assembly.

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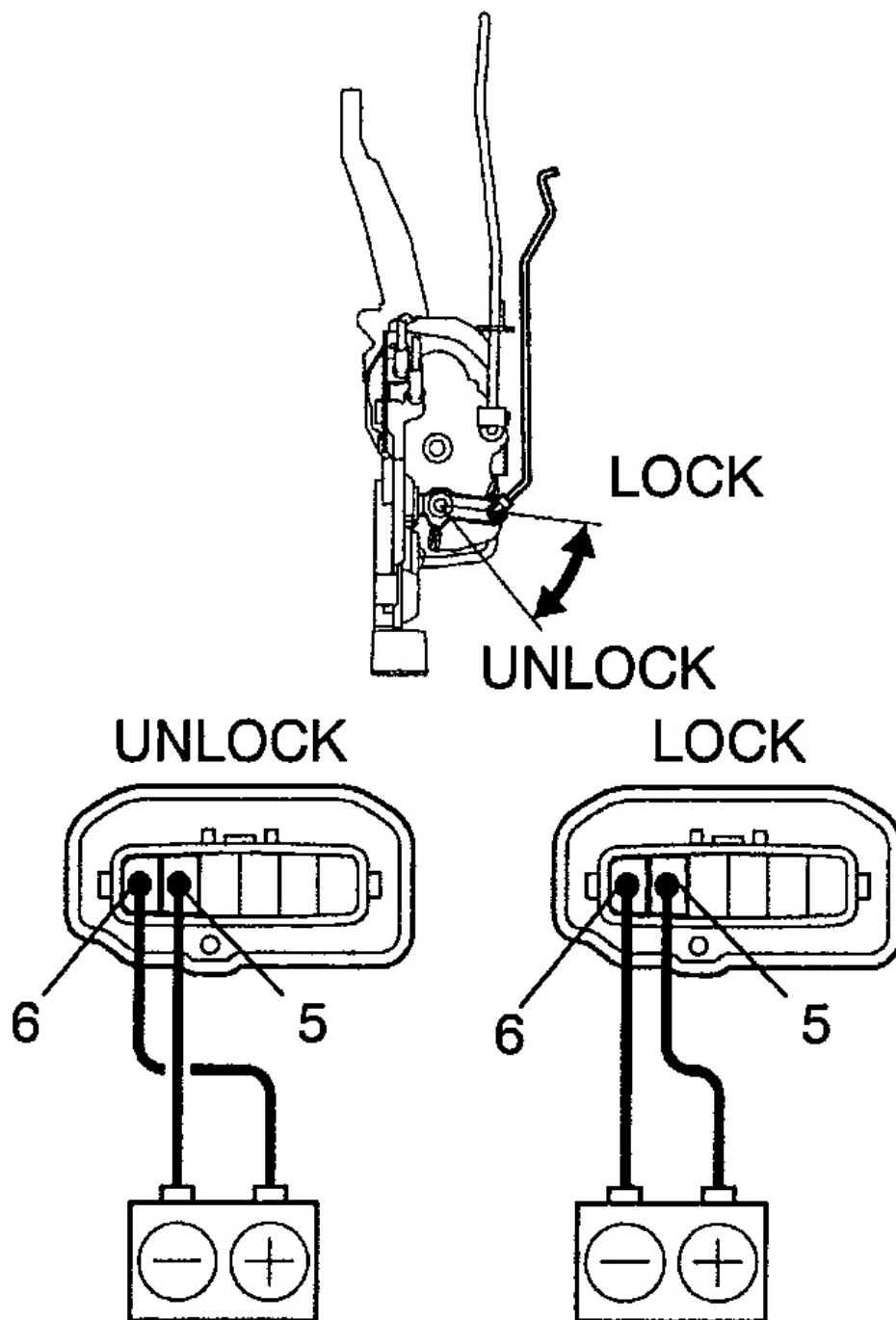


Fig. 9: Inspecting Driver's Door Lock Motor Operation
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

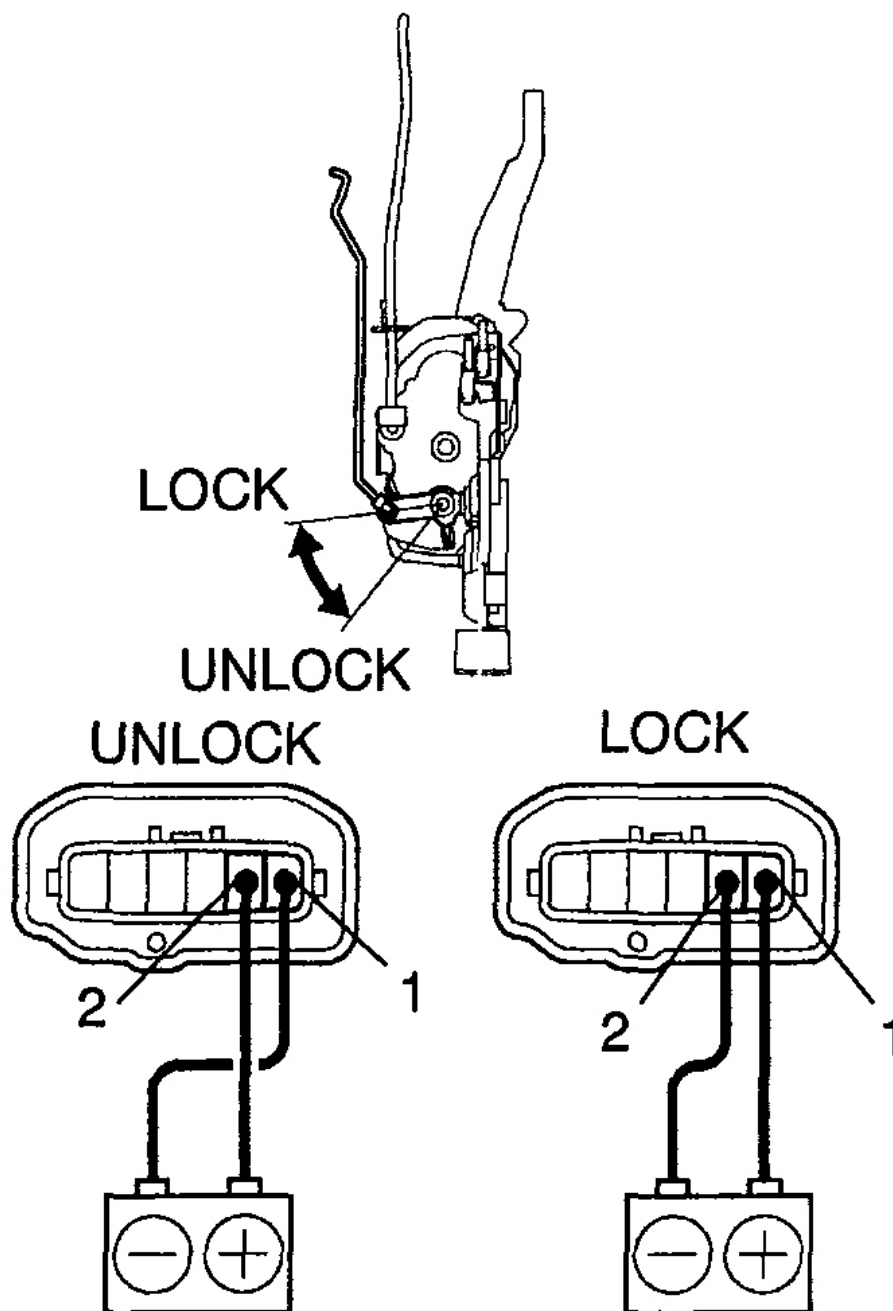
9. Passenger's door: INSPECT DOOR LOCK MOTOR OPERATION

- a. Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 1. Check if the door lock link moves to the UNLOCK position.
- b. Reverse the polarity and check if the door lock link moves to the LOCK position.

If operation is not as specified, replace the door lock assembly.

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Fig. 10: Inspecting Passenger's Door Lock Motor Operation
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

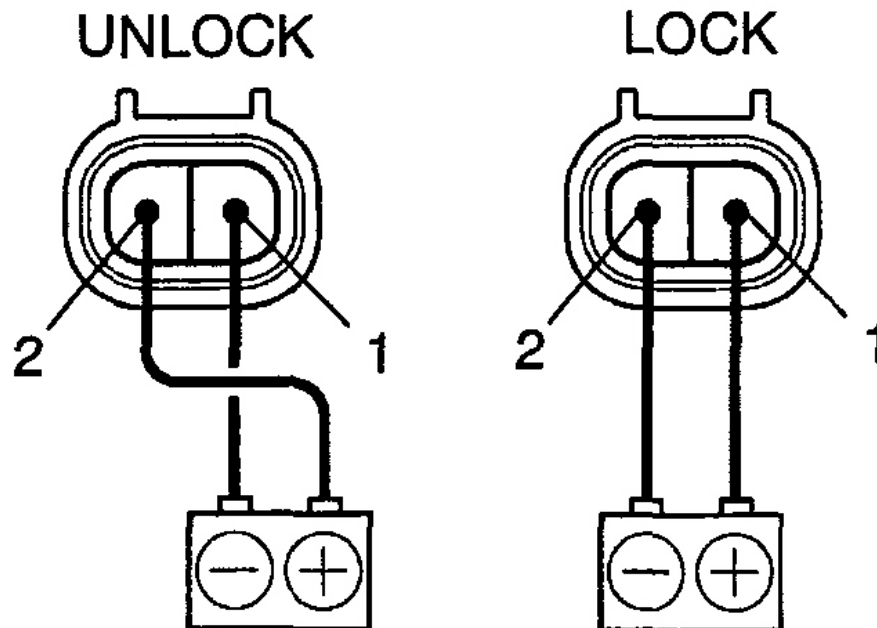
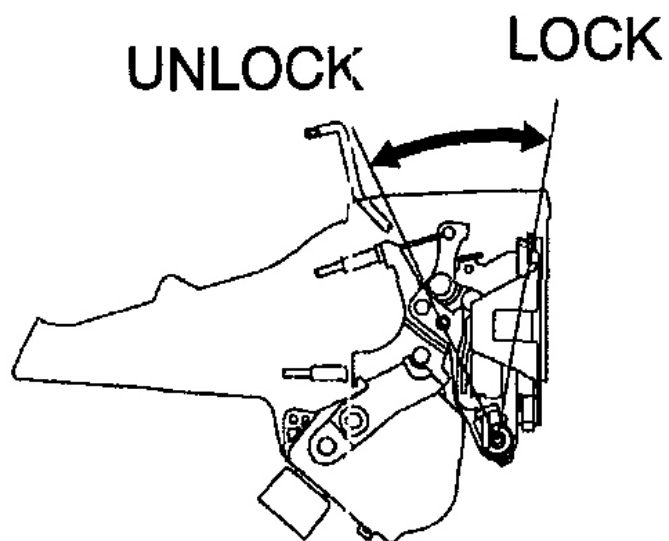
10. Rear door: INSPECT DOOR LOCK MOTOR OPERATION

- a. Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 1. Check if the door lock link moves to the UNLOCK position.
- b. Reverse the polarity and check that the door lock link moves to the LOCK position.

If operation is not as specified, replace the door lock assembly.

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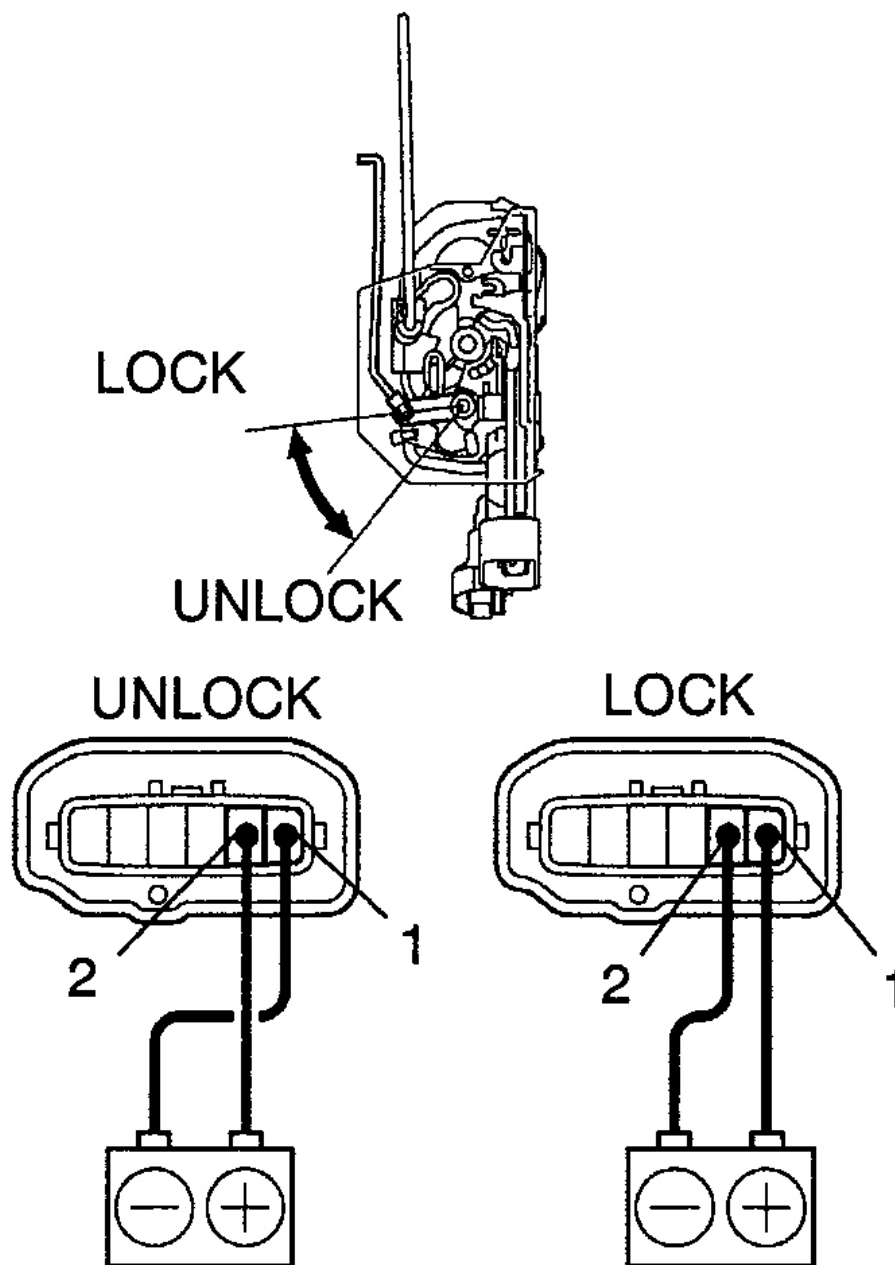
Fig. 11: Inspecting Rear Door Lock Motor Operation

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

11. Back door: INSPECT DOOR LOCK MOTOR OPERATION

- a. Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 1. Check if the door lock link moves to the UNLOCK position.
- b. Reverse the polarity and check if the door lock link moves to the LOCK position.

If operation is not as specified, replace the door lock assembly.



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Fig. 12: Inspecting Back Door Lock Motor Operation

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

12. Driver's door: INSPECT DOOR PTC THERMISTOR OPERATION

- Connect the negative (-) lead from the ammeter to terminal 6, and the positive (+) lead to the positive terminal of the battery.
- Connect the negative (-) lead from the battery to terminal 5.
- Check if the current changes from approximately 3.2 A to less than 0.5 A within 20 to 70 seconds.

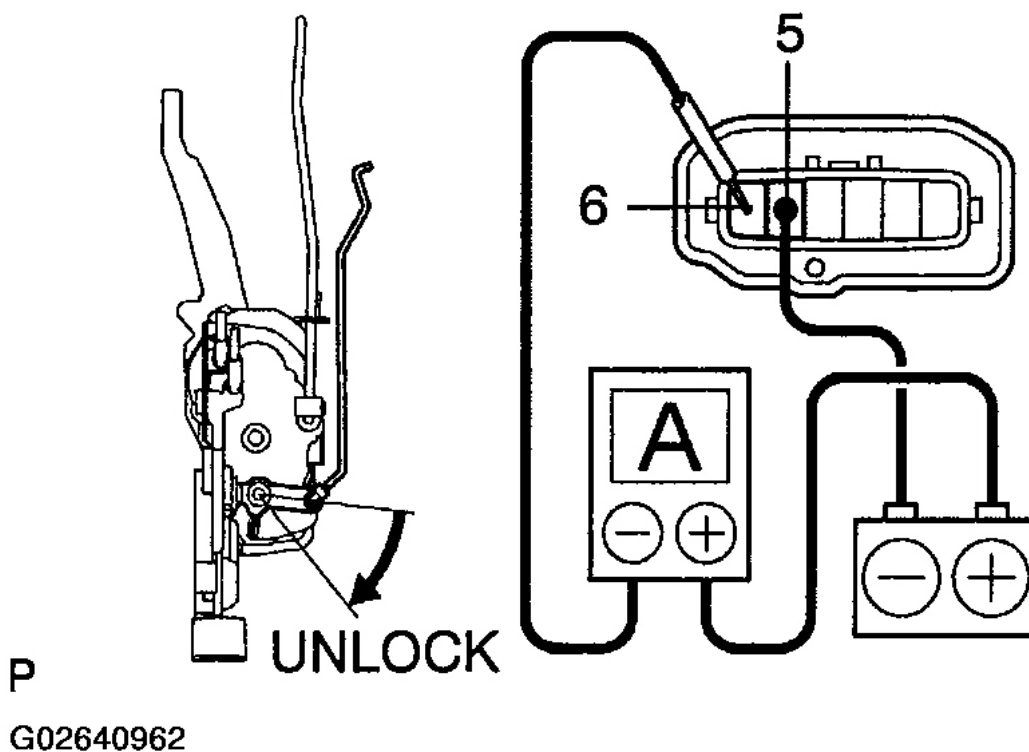


Fig. 13: Inspecting Driver's Door PTC Thermistor Operation (1 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- Disconnect the leads from the terminals.
- Approximately 60 seconds later, connect the positive (+) lead from the battery to terminal 5 and the negative (-) lead to terminal 6. Check if the door lock moves to the LOCK position.

If operation is not as specified, replace the door lock assembly.

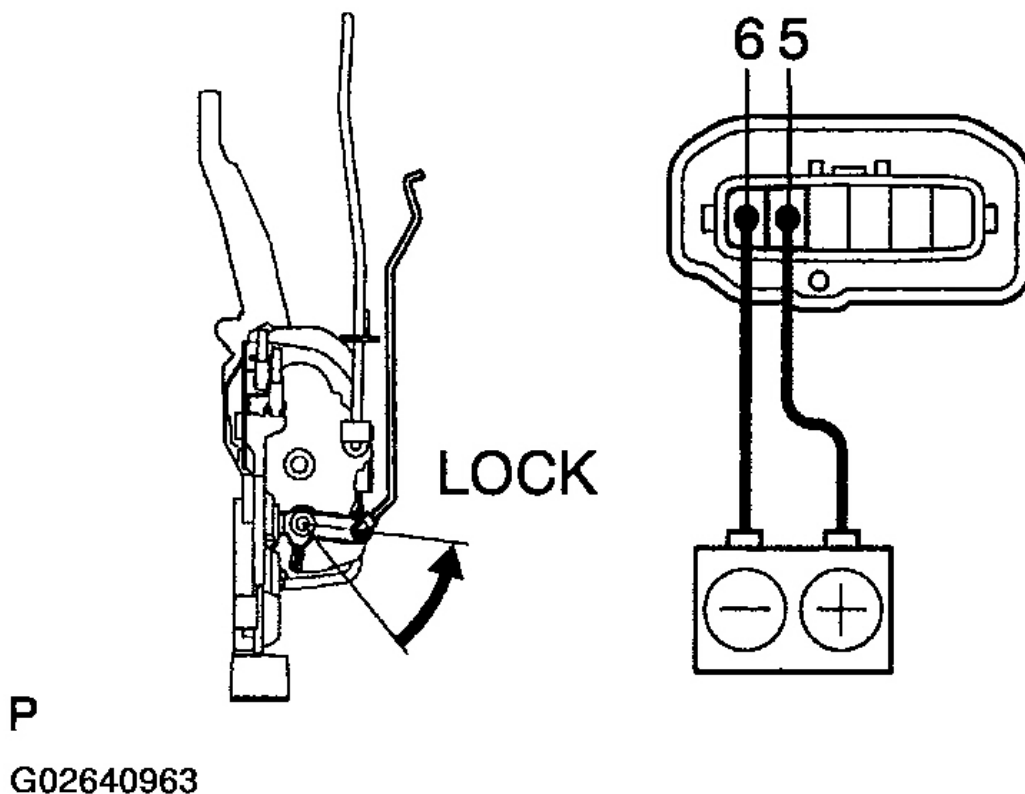


Fig. 14: Inspecting Driver's Door PTC Thermistor Operation (2 Of 2)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

13. Passenger's door: INSPECT PASSENGER'S DOOR PTC THERMISTOR OPERATION

- a. Connect the negative (-) lead from the ammeter to terminal 2, and the positive (+) lead to the positive terminal of the battery.
- b. Connect the negative (-) lead from the battery to terminal 1.
- c. Check if the current changes from approximately 3.2 A to less than 0.5 A within 20 to 70 seconds.

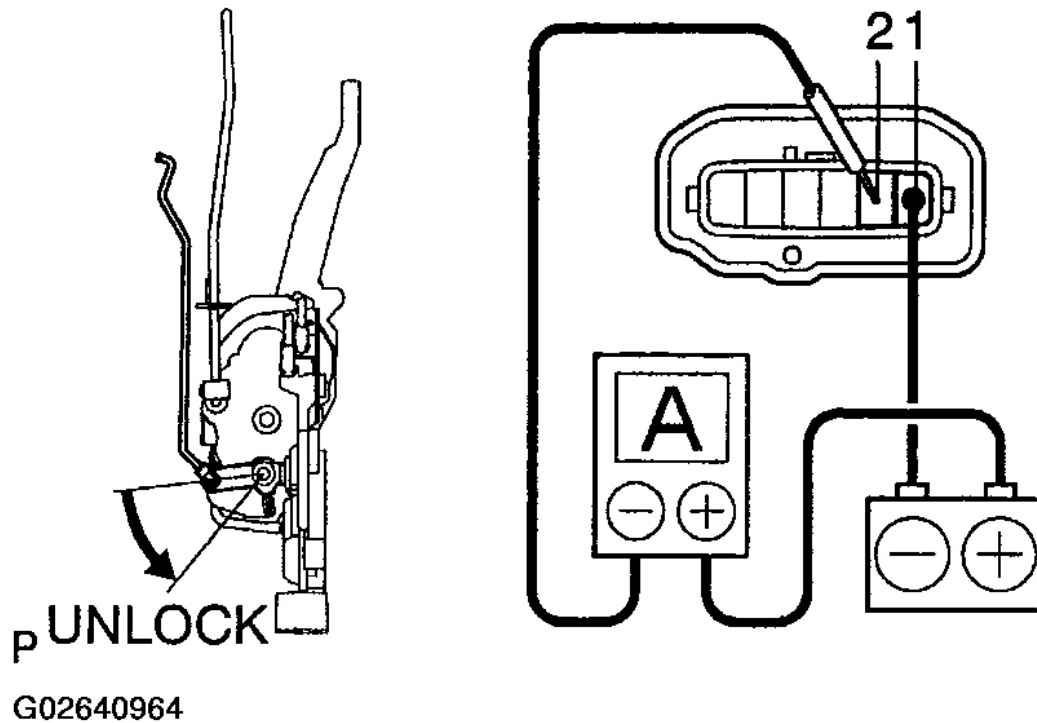


Fig. 15: Inspecting Passenger's Door PTC Thermistor Operation (1 Of 2)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Disconnect the leads from the terminals.
- e. Approximately 60 seconds later, connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 2. Check that the door lock moves to the LOCK position.

If operation is not as specified, replace the door lock assembly.

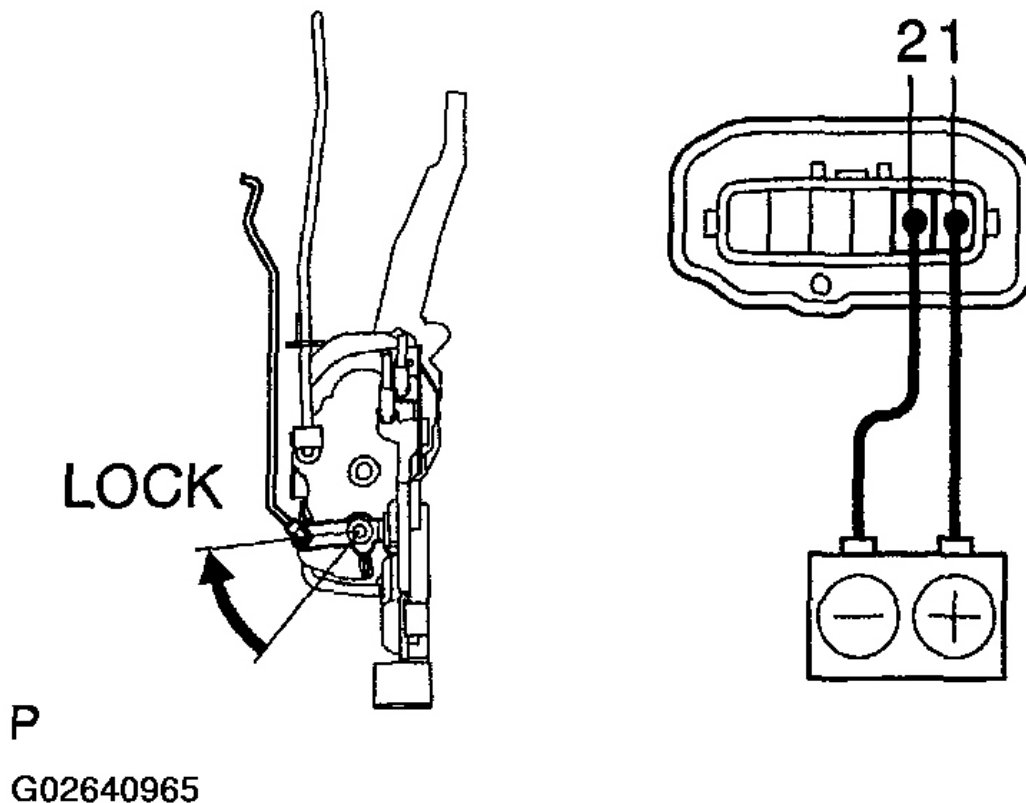


Fig. 16: Inspecting Passenger's Door PTC Thermistor Operation (2 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

14. Rear door: INSPECT DOOR PTC THERMISTOR OPERATION

- a. Connect the negative (-) lead from the ammeter to terminal 2, and the positive (+) lead to the positive terminal of the battery.
- b. Connect the negative (-) lead from the battery to terminal 1.
- c. Check if the current changes from approximately 3.2 A to less than 0.5 A within 20 to 70 seconds.

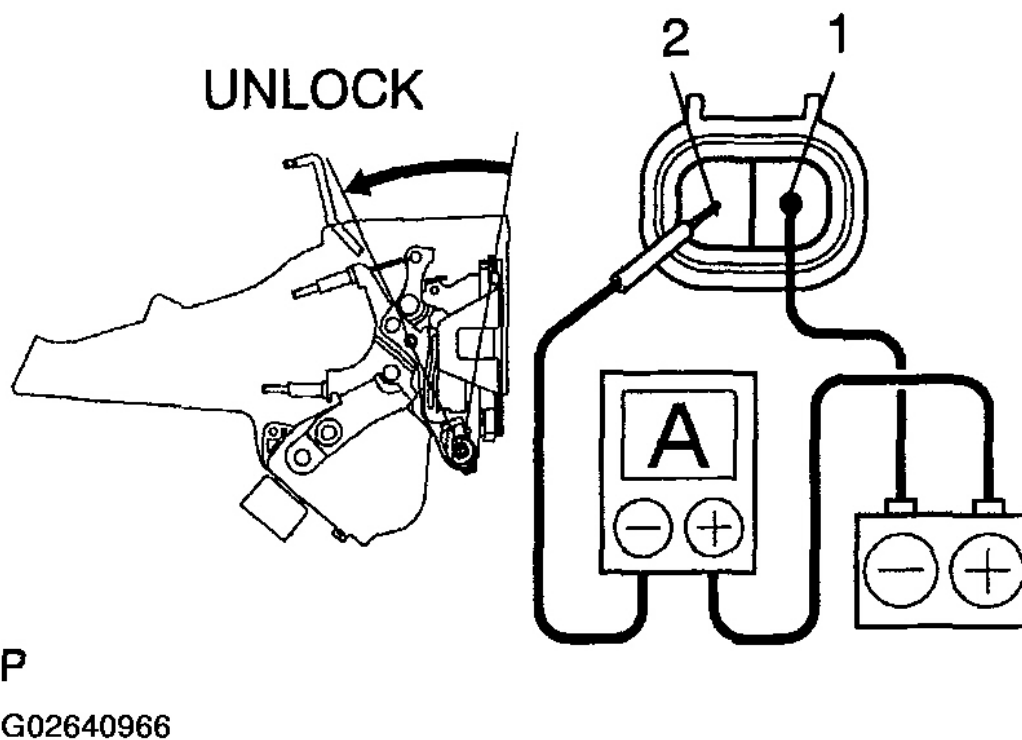


Fig. 17: Inspecting Rear Door PTC Thermistor Operation (1 Of 2)
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- d. Disconnect the leads from the terminals.
- e. Approximately 60 seconds later, connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 2. Check if the door lock moves to the LOCK position.

If operation is not as specified, replace the door lock assembly.

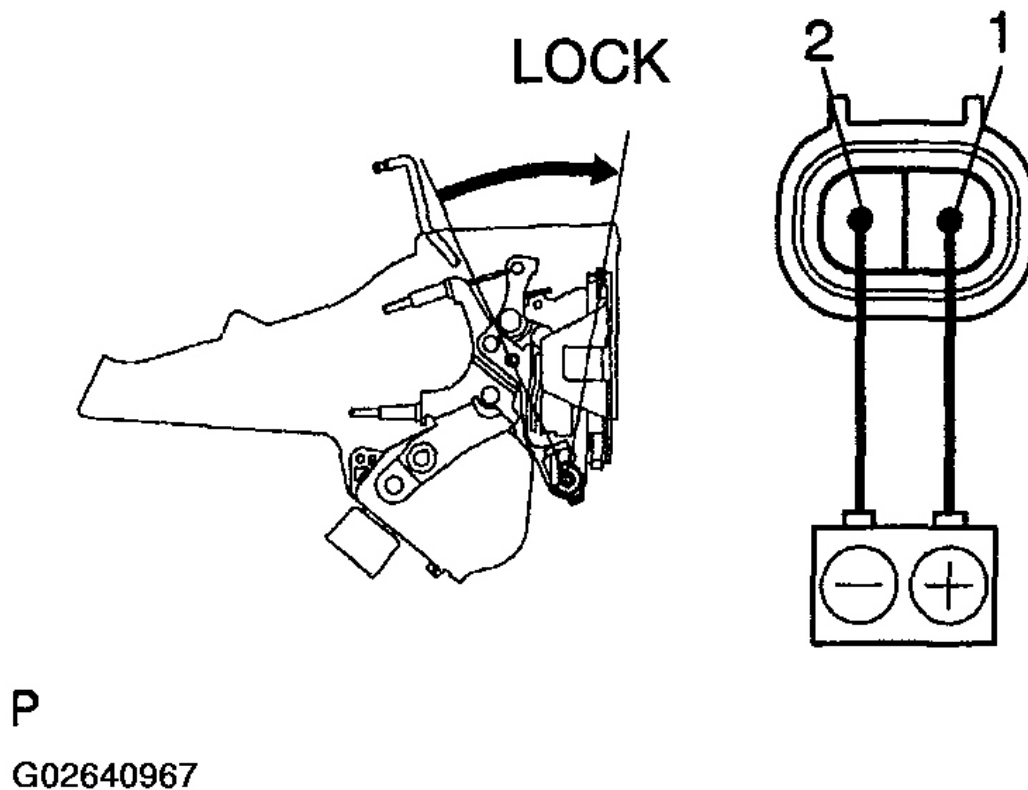


Fig. 18: Inspecting Rear Door PTC Thermistor Operation (2 Of 2)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

15. Back door: INSPECT DOOR PTC THERMISTOR OPERATION

- Connect the negative (-) lead from the ammeter to terminal 2, and the positive (+) lead to the positive terminal of the battery.
- Connect the negative (-) lead from the battery to terminal 1.
- Check if the current changes from approximately 3.2 A to less than 0.5 A within 20 to 70 seconds.

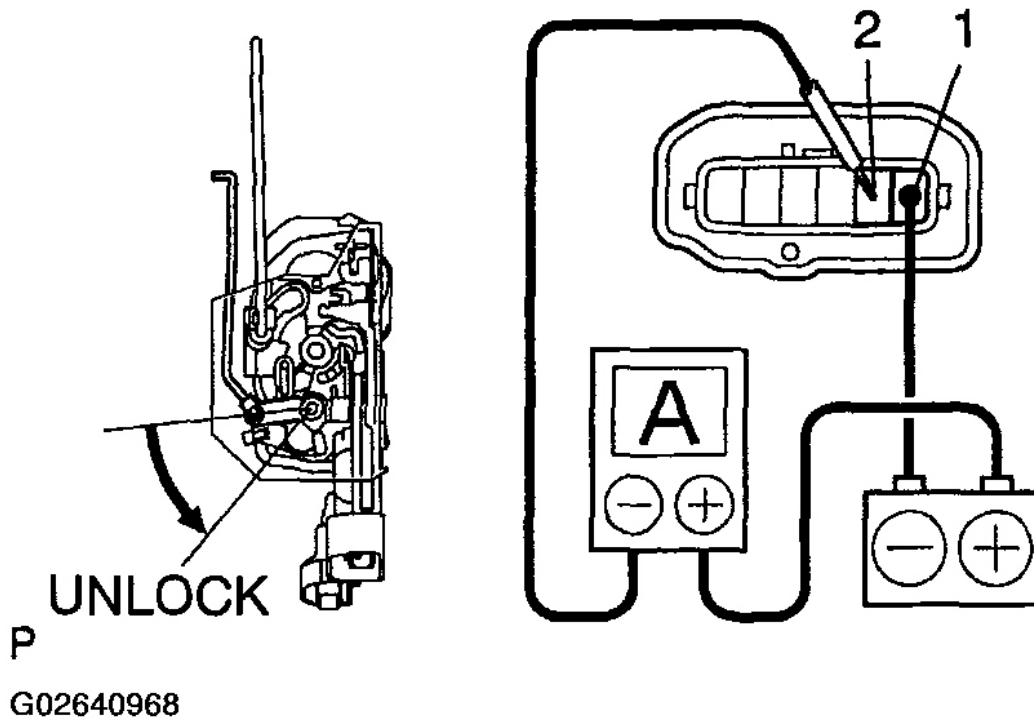


Fig. 19: Inspecting Back Door PTC Thermistor Operation (1 Of 2)
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- d. Disconnect the leads from the terminals.
- e. Approximately 60 seconds later, connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 2. Check if the door lock moves to the LOCK position.

If operation is not as specified, replace the door lock assembly.

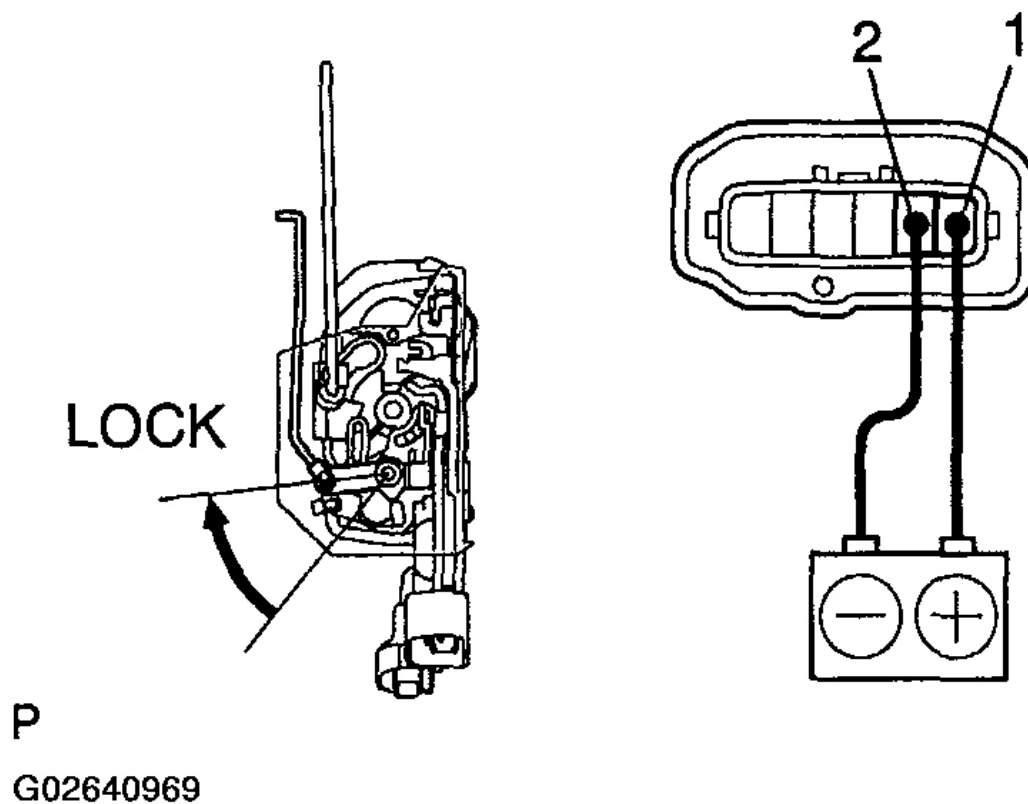


Fig. 20: Inspecting Back Door PTC Thermistor Operation (2 Of 2)
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16. Driver's door: INSPECT DOOR PTC THERMISTOR OPERATION

- a. Connect the positive (+) lead from the battery to terminal 6 and the negative (-) lead to terminal 5.
- b. Attach a current-measuring probe to either the positive (+) lead or the negative (-) lead, and check that the current changes from approximately 3.2 A to less than 0.5 A within 20 to 70 seconds.

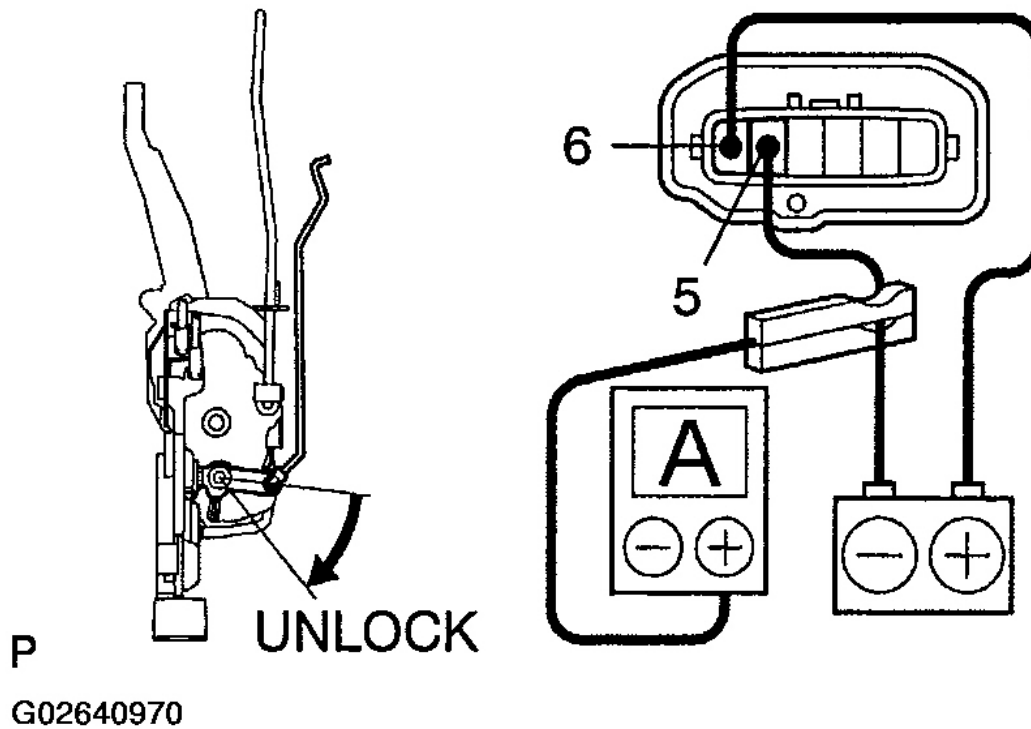


Fig. 21: Inspecting Driver's Door PTC Thermistor Operation (1 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Disconnect the leads from the terminals.
- d. Approximately 60 seconds later, reverse the polarity and check if the door lock moves to the LOCK position.

If operation is not as specified, replace the door lock assembly.

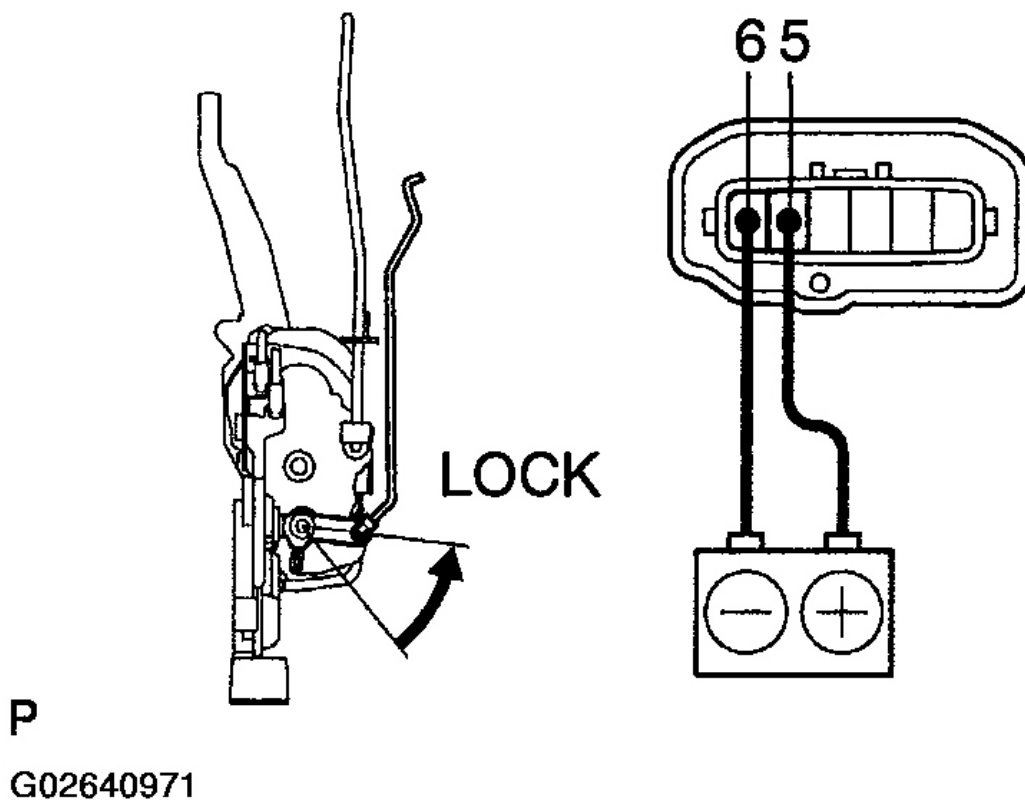


Fig. 22: Inspecting Driver's Door PTC Thermistor Operation (2 Of 2)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

17. Passenger's door: INSPECT DOOR PTC THERMISTOR OPERATION

- a. Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 1.
- b. Attach a current-measuring probe to either the positive (+) lead or the negative (-) lead. Check if the current changes from approximately 3.2 A to less than 0.5 A within 20 to 70 seconds.

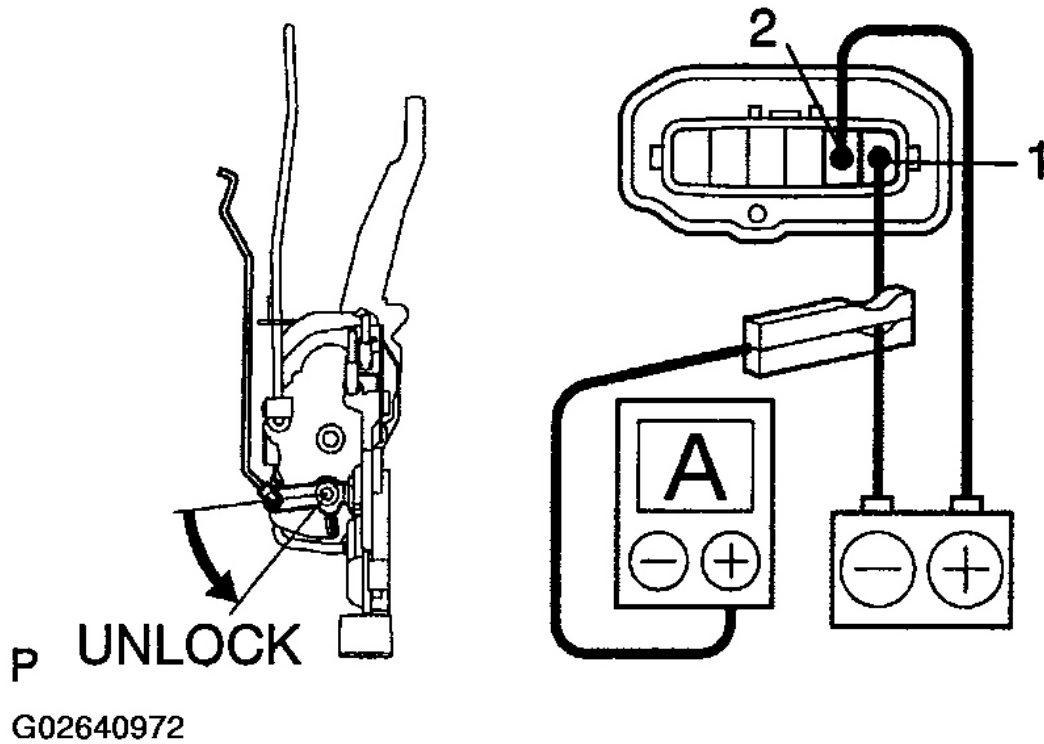


Fig. 23: Inspecting Passenger's Door PTC Thermistor Operation (1 Of 2)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Disconnect the leads from the terminals.
- d. Approximately 60 seconds later, reverse the polarity and check if the door lock moves to the LOCK position.

If operation is not as specified, replace the door lock assembly.

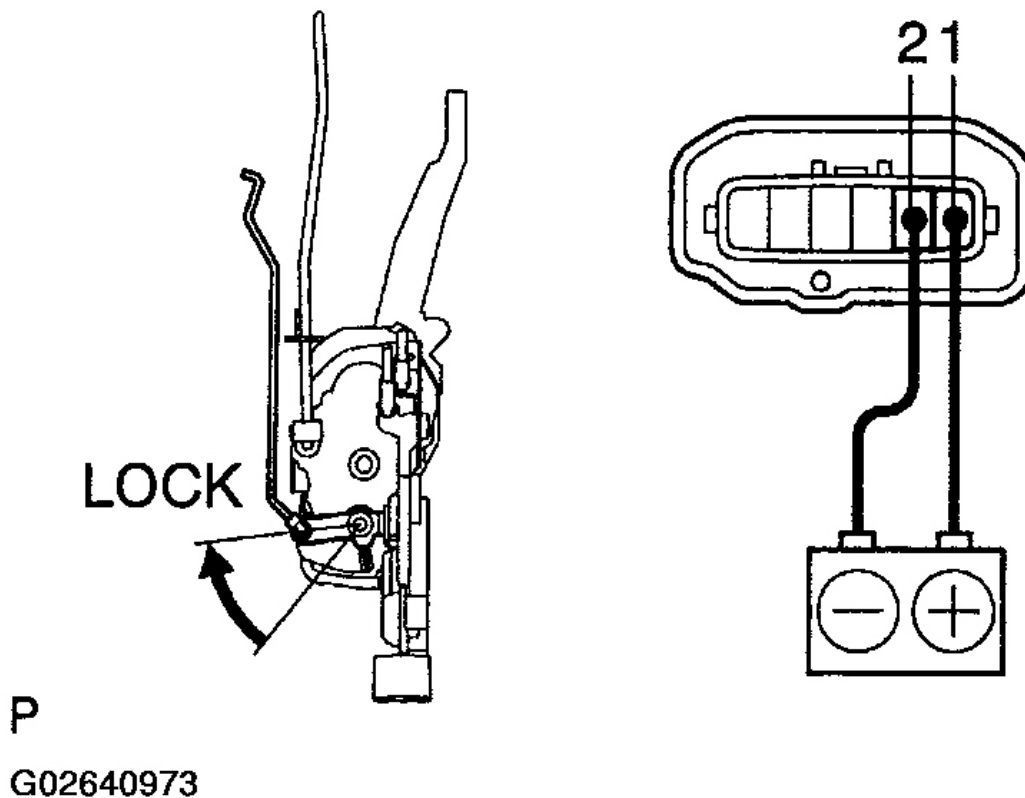


Fig. 24: Inspecting Passenger's Door PTC Thermistor Operation (2 Of 2)
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18. Rear door: INSPECT DOOR PTC THERMISTOR OPERATION

- a. Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 1.
- b. Attach a current-measuring probe to either the positive (+) lead or the negative (-) lead. Check if the current changes from approximately 3.2 A to less than 0.5 A within 20 to 70 seconds.

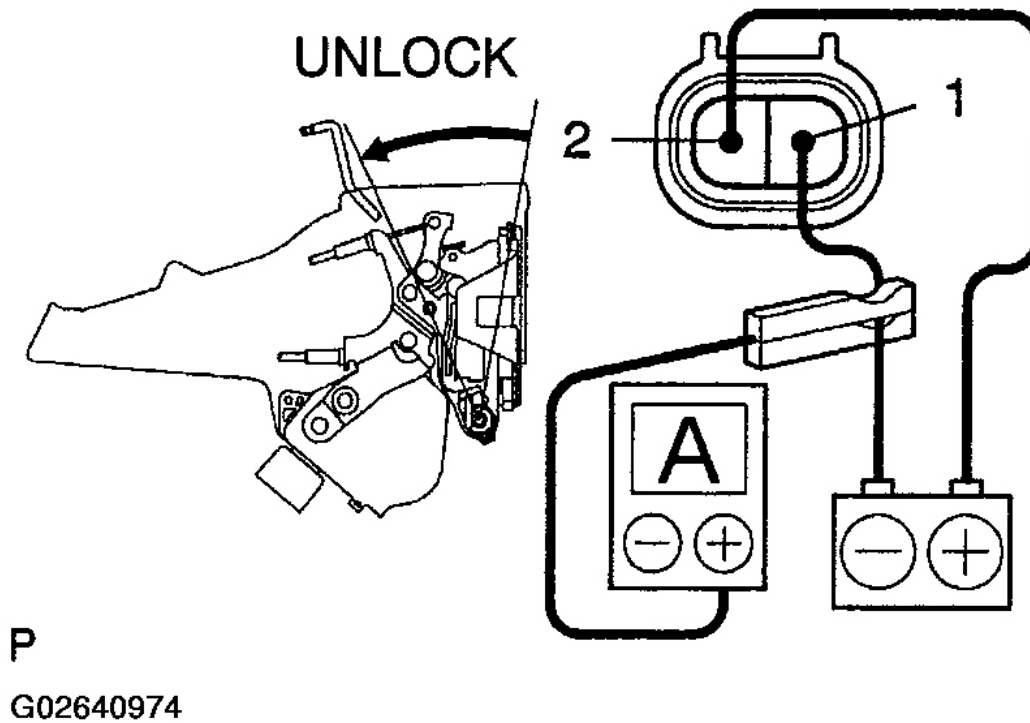
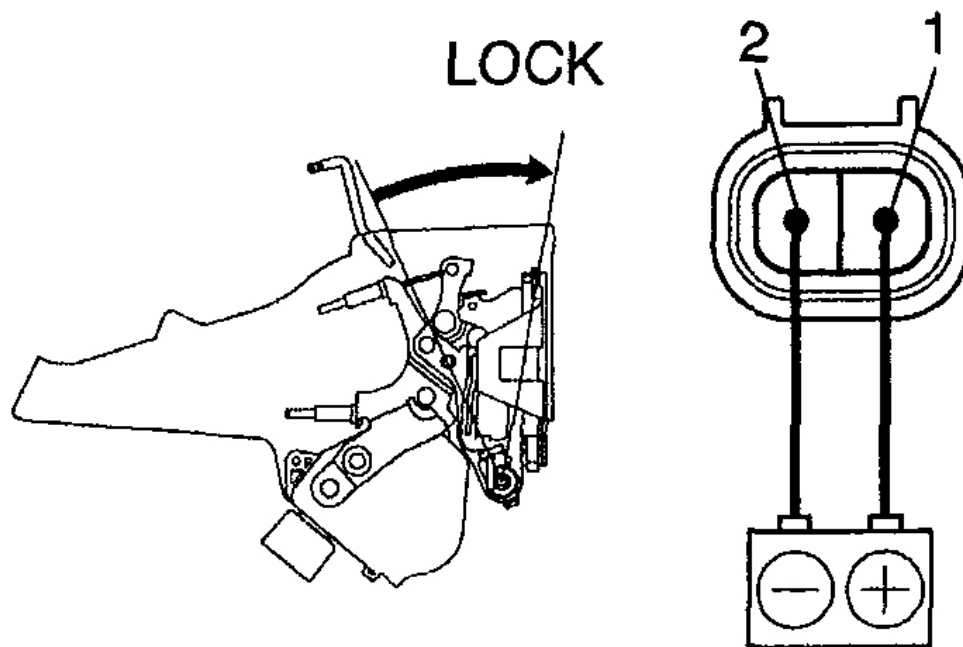


Fig. 25: Inspecting Rear Door PTC Thermistor Operation (1 Of 2)
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- c. Disconnect the leads from the terminals.
- d. Approximately 60 seconds later, reverse the polarity and check if the door lock moves to the LOCK position.

If operation is not as specified, replace the door lock assembly.



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Fig. 26: Inspecting Rear Door PTC Thermistor Operation (2 Of 2)
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19. Back door: INSPECT DOOR PTC THERMISTOR OPERATION

- a. Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 1.
- b. Attach a current-measuring probe to either the positive (+) lead or the negative (-) lead. Check if the current changes from approximately 3.2 A to less than 0.5 A within 20 to 70 seconds.

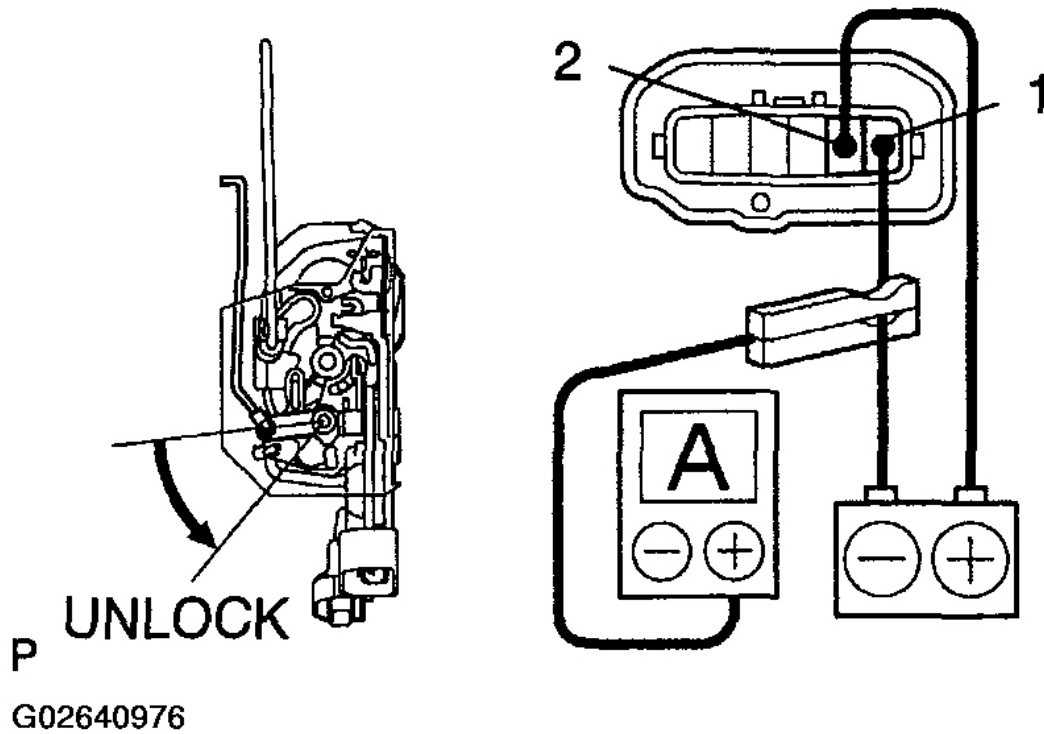


Fig. 27: Inspecting Back Door PTC Thermistor Operation (1 Of 2)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Disconnect the leads from the terminals.
- d. Approximately 60 seconds later, reverse the polarity and check if the door lock moves to the LOCK position.

If operation is not as specified, replace the door lock assembly.

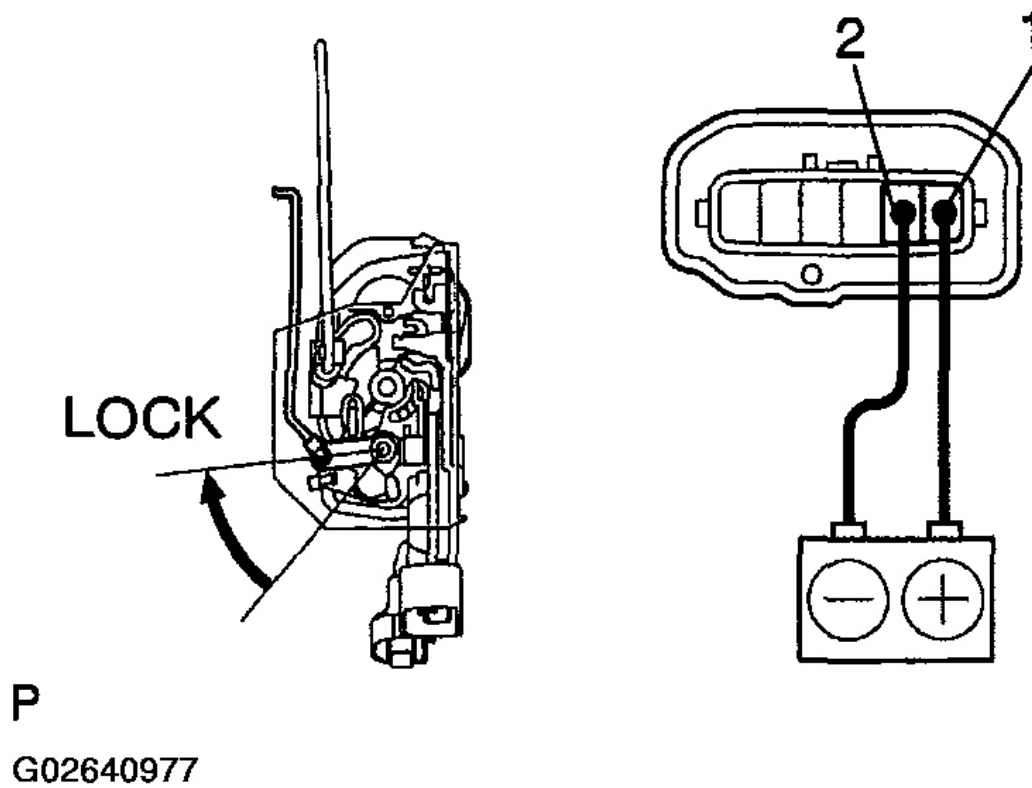


Fig. 28: Inspecting Back Door PTC Thermistor Operation (2 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.