

## GROUP 42

# BODY

### GENERAL

#### OUTLINE OF CHANGES

- Troubleshooting and inspection procedure for door lock-ECU have been established to correspond to change of the door lock-ECU.
- Inspection procedure for door lock switch has been established to correspond to addition of the door lock switch.
- Theft-alarm system has been abolished. Theft-alarm connector (harness side) has been abolished to correspond to this.

### DOOR

#### TROUBLESHOOTING

#### INSPECTION CHART FOR TROUBLE SYMPTOMS

Trouble symptom	Inspection procedure	Reference page
Power windows	Driver's power window cannot be operated by the power window main switch.	1*
	No power window can be operated by the power window main switch (but they can be operated by the sub-switches).	2*
	No power window can be operated by the power window sub-switches (but they can be operated by the main switch).	3*
	No power window can be operated by the power window sub-switches (nor can they be operated by the main switch).	4*
	Automatic operation is not possible.	5*
	When the glass is raised, it then lowers automatically.	6*
	The window does not lower if it clamps something, or it lowers automatically after closing fully.	7*
	The key off timer does not operate.	8*
	If the driver's side door is opened while the key off timer is operating, the power windows do not operate for a further 30 seconds after the door is opened.	9*

Trouble symptom		Inspection procedure	Reference page	
Door locking mechanism	Vehicles without keyless entry system	None of the door lock functions operate.	10	
		Doors do not lock or unlock when the key cylinders (except the one at the driver's side door) are operated.	11	
		None of the doors lock or unlock when the door lock switch is operated. However, they lock and unlock when the key cylinder is operated.	12	
	Vehicles with keyless entry system	Some doors do not lock or unlock.	13	
		None of the door lock functions operate. (The keyless entry system also does not operate.)	14	
		The doors do not lock or unlock when the door lock switch is operated.	15	
		The doors do not lock or unlock when the key cylinders are operated.	16	
		Some doors do not lock or unlock.	17*	
			—	

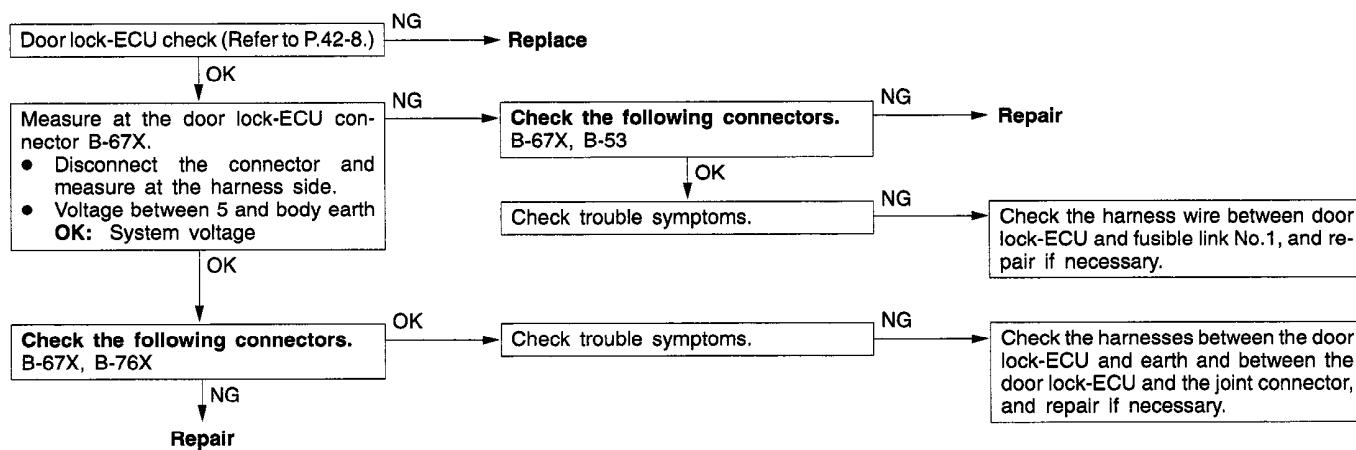
## NOTE

\*: Refer to '96 CARISMA Workshop Manual (Pub. No. PWDE9502).

## INSPECTION PROCEDURE FOR TROUBLE SYMPTOMS

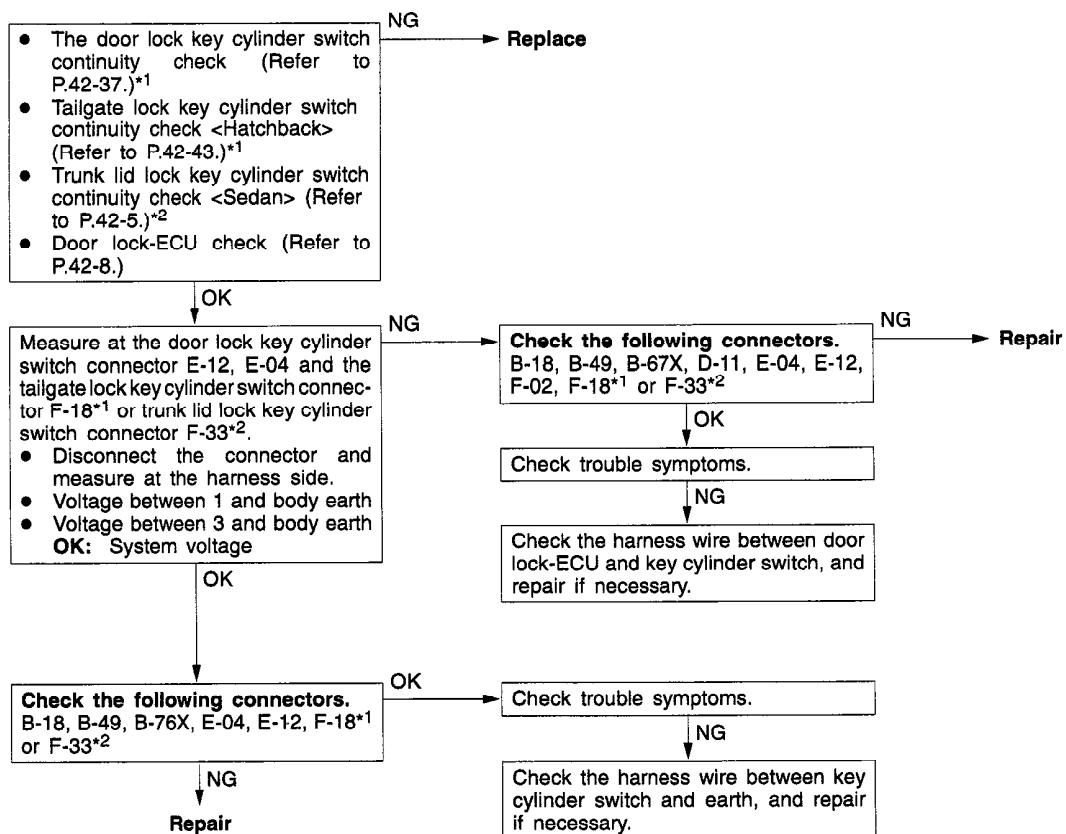
## Inspection Procedure 10

None of the door lock functions operate.	Probable cause
Power circuit system or earth circuit system of the door lock control unit may be defective.	<ul style="list-style-type: none"> <li>Malfunction of door lock-ECU</li> <li>Malfunction of wiring harness or connector</li> </ul>



## Inspection Procedure 11

Doors do not lock or unlock when the key cylinders (except the one at the driver's side door) are operated.	Probable cause
The key cylinder switch or the door lock-ECU may be defective.	<ul style="list-style-type: none"> <li>Malfunction of the door lock key cylinder switch</li> <li>Malfunction of the tailgate lock key cylinder switch</li> <li>Malfunction of the door lock-ECU</li> <li>Malfunction of harness or connector</li> </ul>



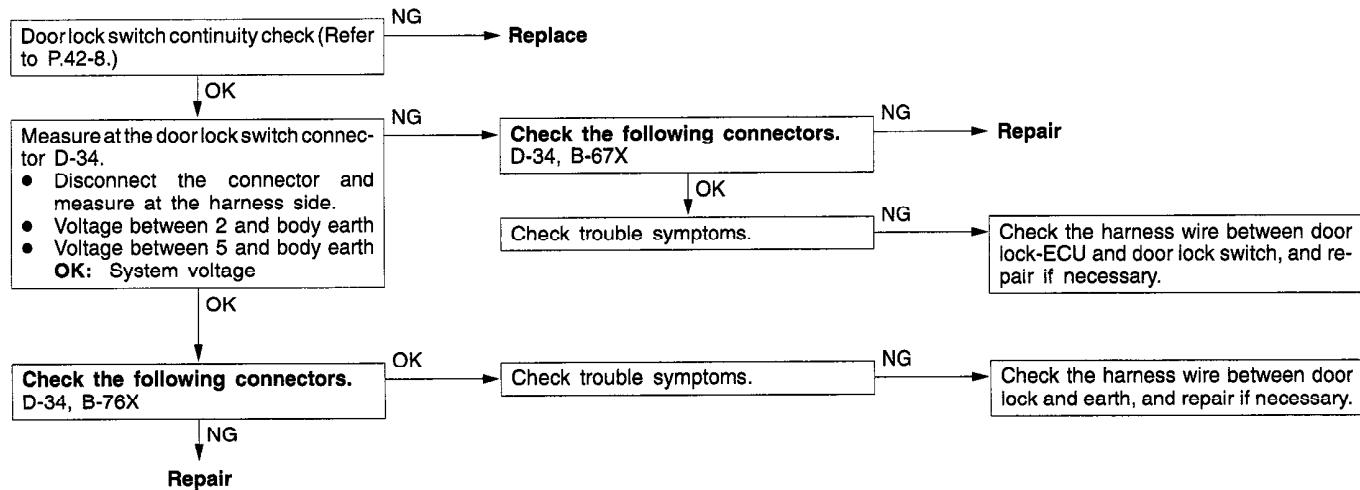
## NOTE

\*1: Refer to '96 CARISMA Workshop Manual (Pub. No. PWDE9502).

\*2: Refer to '97 CARISMA Workshop Manual (Pub. No. PWDE9502-A).

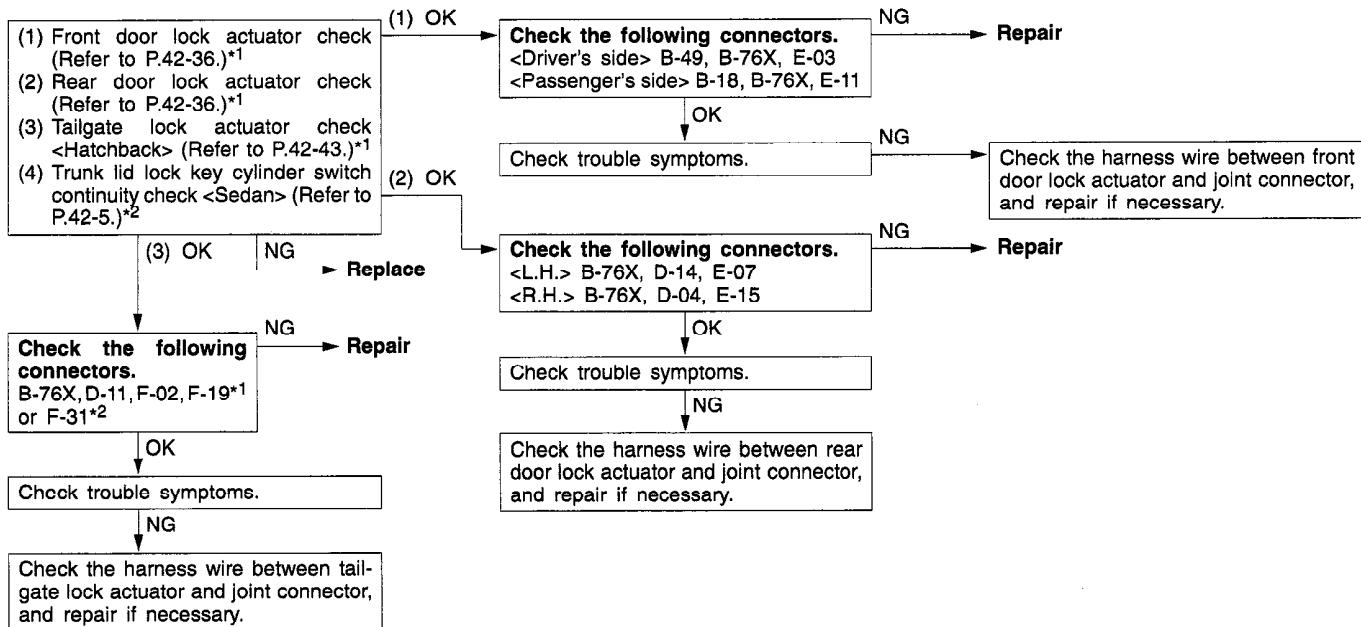
## Inspection Procedure 12

None of the doors lock or unlock when the door lock switch is operated. However, they lock and unlock when the key cylinder is operated.	Probable cause
The door lock switch may be defective.	<ul style="list-style-type: none"> <li>● Malfunction of the door lock switch</li> <li>● Malfunction of the harness or connector</li> </ul>



## Inspection Procedure 13

Some doors do not lock or unlock.	Probable cause
The door lock actuator, a harness or connector may be defective.	<ul style="list-style-type: none"> <li>Malfunction of door lock actuator</li> <li>Malfunction of wiring harness or connector</li> </ul>



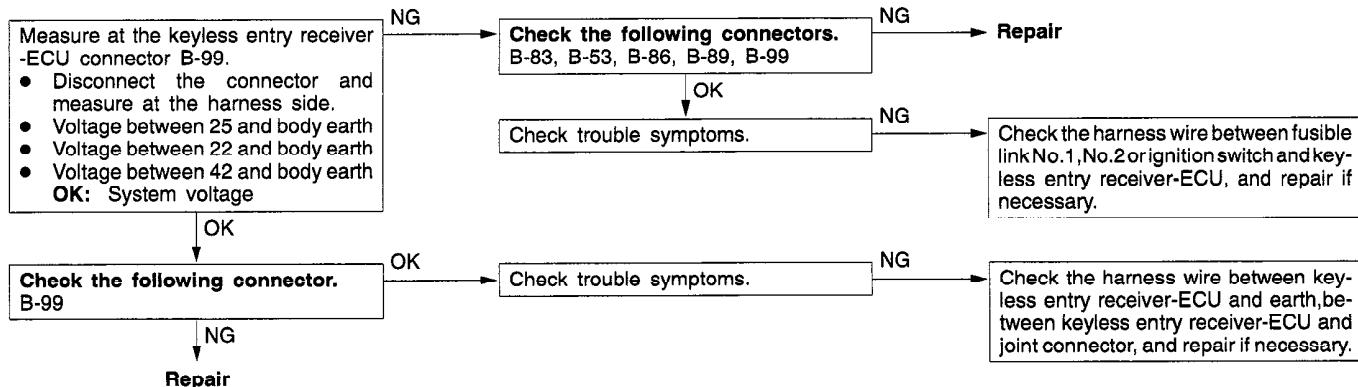
## NOTE

\*1: Refer to '96 CARISMA Workshop Manual (Pub. No. PWDE9502).

\*2: Refer to '97 CARISMA Workshop Manual (Pub. No. PWDE9502-A).

## Inspection Procedure 14

None of the door lock functions operate.(The keyless entry system does not operate,either.)	Probable cause
Power circuit system or earth circuit system of the keyless entry receiver-ECU may be defective.	<ul style="list-style-type: none"> <li>Malfunction of keyless entry receiver-ECU</li> <li>Malfunction of wiring harness or connector</li> </ul>

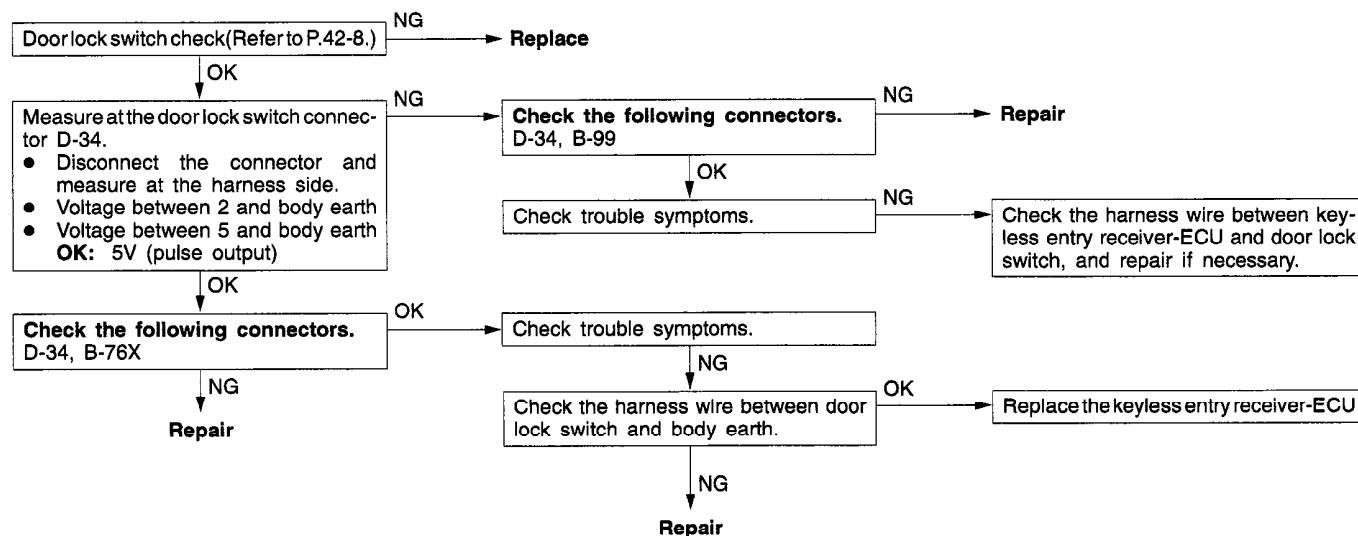


## NOTE

If the keyless entry or central door locking system is operated while the No.2 fuse in the junction block is melted or disconnected, the keyless entry receiver-ECU judges its circuit as defective. Then the system will not function after connecting No.2 fuse correctly. In this case, the wiring harness abnormal signal is stored inside the ECU. This signal can be cleared by disconnecting and reconnecting the No.3 fuse in the engine compartment relay box. After clearing this signal, the system will be restored.

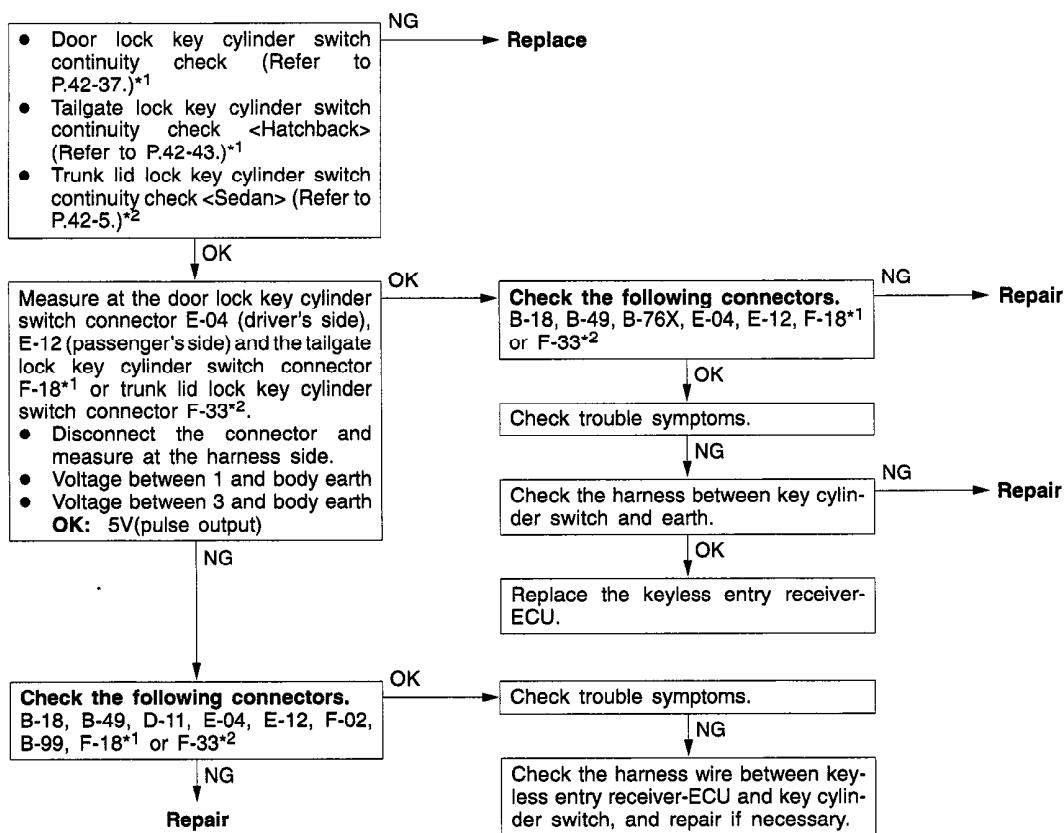
## Inspection Procedure 15

The doors do not lock or unlock when the door lock switch is operated.	Probable cause
The door lock switch or the keyless entry receiver-ECU may be defective.	<ul style="list-style-type: none"> <li>Malfunction of the door lock switch</li> <li>Malfunction of the keyless entry receiver-ECU</li> <li>Malfunction of harness or connector</li> </ul>



## Inspection Procedure 16

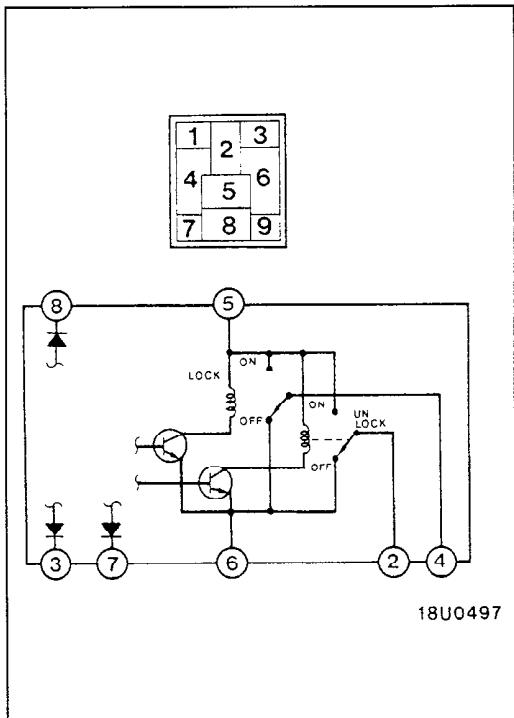
The doors do not lock or unlock when the key cylinders are operated.	Probable cause
The keyless entry receiver-ECU or the key cylinder switch may be defective.	<ul style="list-style-type: none"> <li>Malfunction of the door lock key cylinder switch</li> <li>Malfunction of the tailgate lock key cylinder switch</li> <li>Malfunction of the keyless entry receiver-ECU</li> <li>Malfunction of harness or connector</li> </ul>



## NOTE

\*1: Refer to '96 CARISMA Workshop Manual (Pub. No. PWDE9502).

\*2: Refer to '97 CARISMA Workshop Manual (Pub. No. PWDE9502-A).



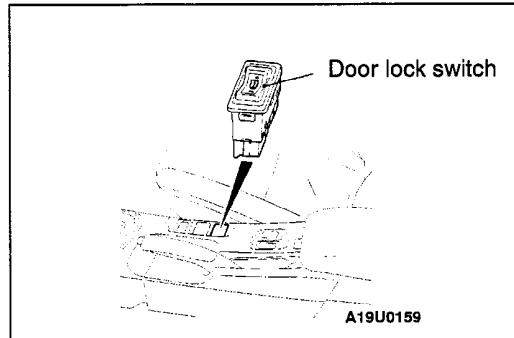
## INSPECTION

### DOOR LOCK-ECU CHECK

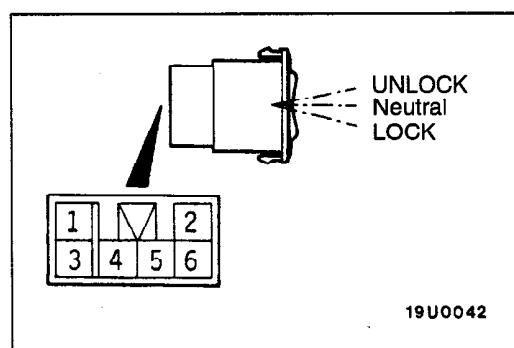
1. Apply battery voltage to terminal 5, and connect terminal 6 to earth.
2. Use a needle-type multimeter to measure the voltage under the measurement conditions given below.

Measurement condition	Terminal No.	
	2	4
Connect terminal (8) to earth.	Needle swings at the point when terminal is earthed.	0 V
Disconnect earth from terminal (8).	0 V	Needle swings at the point when earth is disconnected.
Connect terminal (3) to earth.	0 V	Needle swings at the point when terminal is earthed.
Connect terminal (7) to earth.	Needle swings at the point when terminal is earthed.	0 V

3. Check the continuity between terminals 2, 4, 6.



## DOOR LOCK SWITCH REMOVAL AND INSTALLATION



## INSPECTION

### DOOR LOCK SWITCH CONTINUITY CHECK

Switch position	Terminal No.						
	1	2	4	5	3	-	6
UNLOCK	○	—	○				
Neutral							
LOCK	○			○			