

# SECTION 9P

## DOORS

**CAUTION:** Disconnect the negative battery cable before removing or installing any electrical unit or when a tool or equipment could easily come in contact with exposed electrical terminals. Disconnecting this cable will help prevent personal injury and damage to the vehicle. The ignition must also be in LOCK unless otherwise noted.

### TABLE OF CONTENTS

Specifications .....	9P-1	Outside Door Handle .....	9P-28
Fastener Tightening Specifications .....	9P-1	Door Lock Cylinder .....	9P-28
Schematic and Routing Diagrams .....	9P-2	Manual Front Window Regulator .....	9P-29
Power Door Locks .....	9P-2	Power Window Regulator .....	9P-30
Power Door Locks (3-Door Hatchback) .....	9P-3	Manual Rear Window Regulator .....	9P-30
Power Door Locks (5-Door Hatchback) .....	9P-4	Front Door Assembly .....	9P-31
Power Windows (Front Only) .....	9P-5	Rear Door Assembly .....	9P-32
Power Windows (Front and Rear) .....	9P-6	Door Hinge .....	9P-34
Diagnosis .....	9P-7	Door Hold Open Link .....	9P-34
Power Windows .....	9P-7	Inside Channel Molding .....	9P-35
Maintenance and Repair .....	9P-17	Outside Channel Molding .....	9P-36
On-Vehicle Service .....	9P-17	Door Weatherstrip .....	9P-36
Front Door Glass Run .....	9P-17	Door Seal Trim .....	9P-37
Rear Door Glass Run .....	9P-17	Door Opening Weatherstrip .....	9P-38
Front Door Secondary Weatherstrip .....	9P-18	Manual Window Regulator Handle .....	9P-38
Rear Door Secondary Weatherstrip .....	9P-19	General Description and System	
Door Lock Striker .....	9P-19	Operation .....	9P-40
Door Lock Striker Adjustment .....	9P-20	Door Lock Striker .....	9P-40
Front Door Lock .....	9P-22	Childproof Rear Door Lock .....	9P-40
Childproof Rear Door Lock .....	9P-23	Power Door Locks .....	9P-40
Inside Door Handle .....	9P-26	Power Windows .....	9P-40
Inside Lock Rod .....	9P-27		

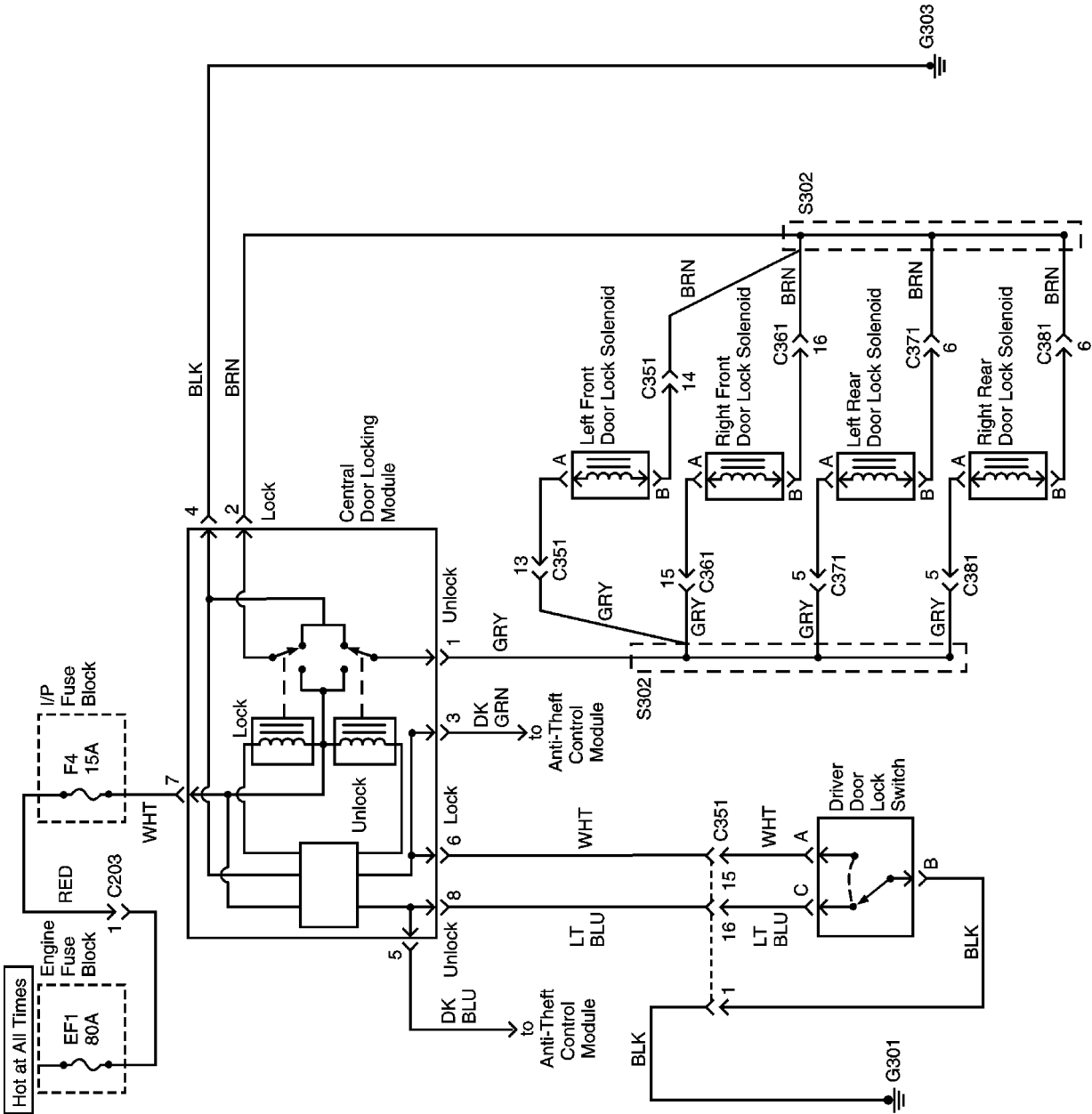
## SPECIFICATIONS

### FASTENER TIGHTENING SPECIFICATIONS

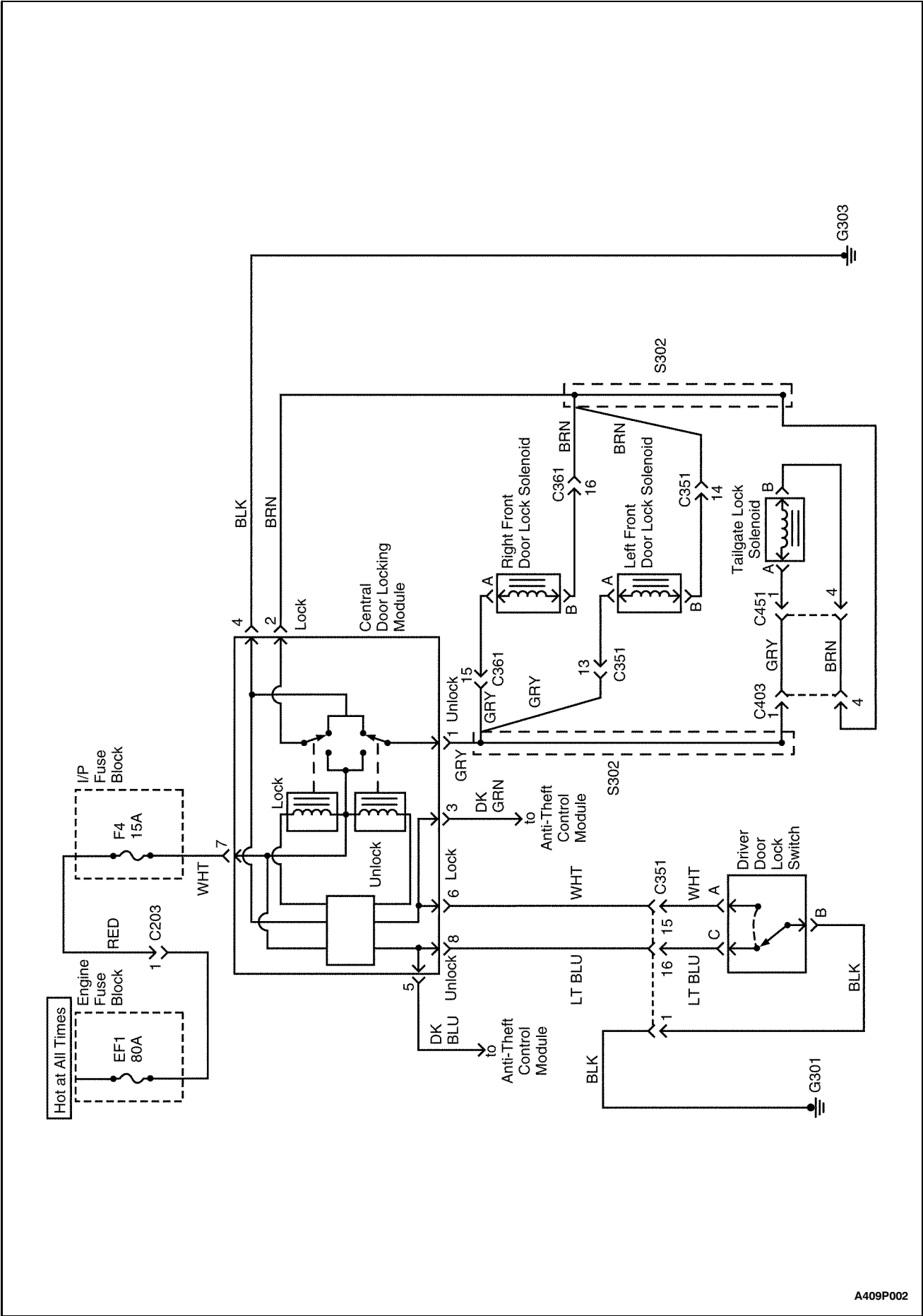
Application	N•m	Lb-Ft	Lb-In
Door Hinge-to-Body Bolt	39	29	-
Door Hinge-to-Door Bolt	15	11	-
Door Hold Open Link-to-Body Bolt	25	18	-
Door Hold Open Link-to-Door Bolt	5	-	44
Door Lock Screw	8	-	71
Door Lock Striker Screw	20	15	-
Door Pull Bracket Screw	3.5	-	31
Door Striker Screw	20	15	-
Guide Rail Bolt	7	-	62
Inside Door Handle Screw	3	-	27
Manual Window Regulator Nut	7	-	62
Outside Door Handle Bolt	4.5	-	40

SCHEMATIC AND ROUTING DIAGRAMS

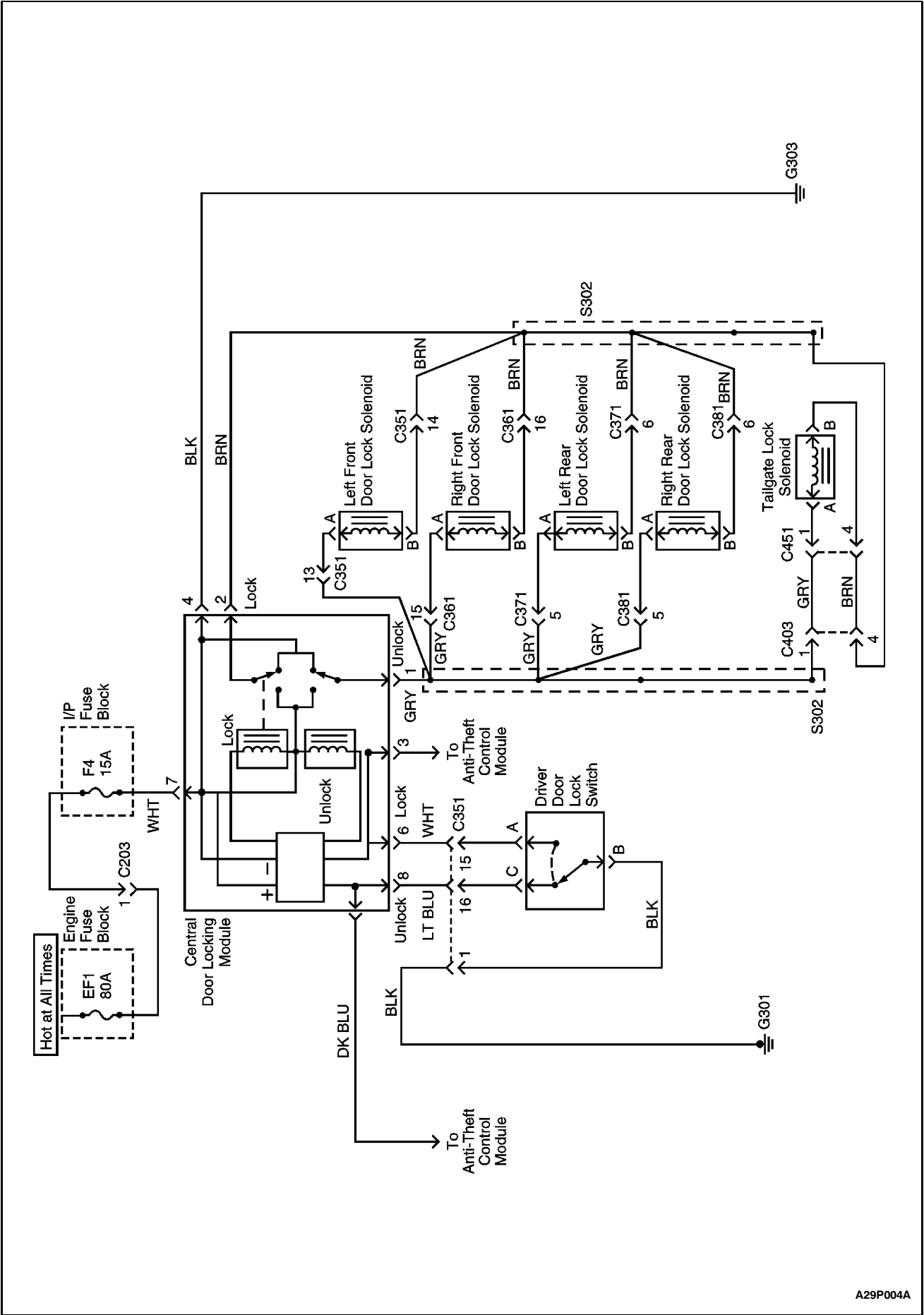
POWER DOOR LOCKS



POWER DOOR LOCKS (3-DOOR HATCHBACK)

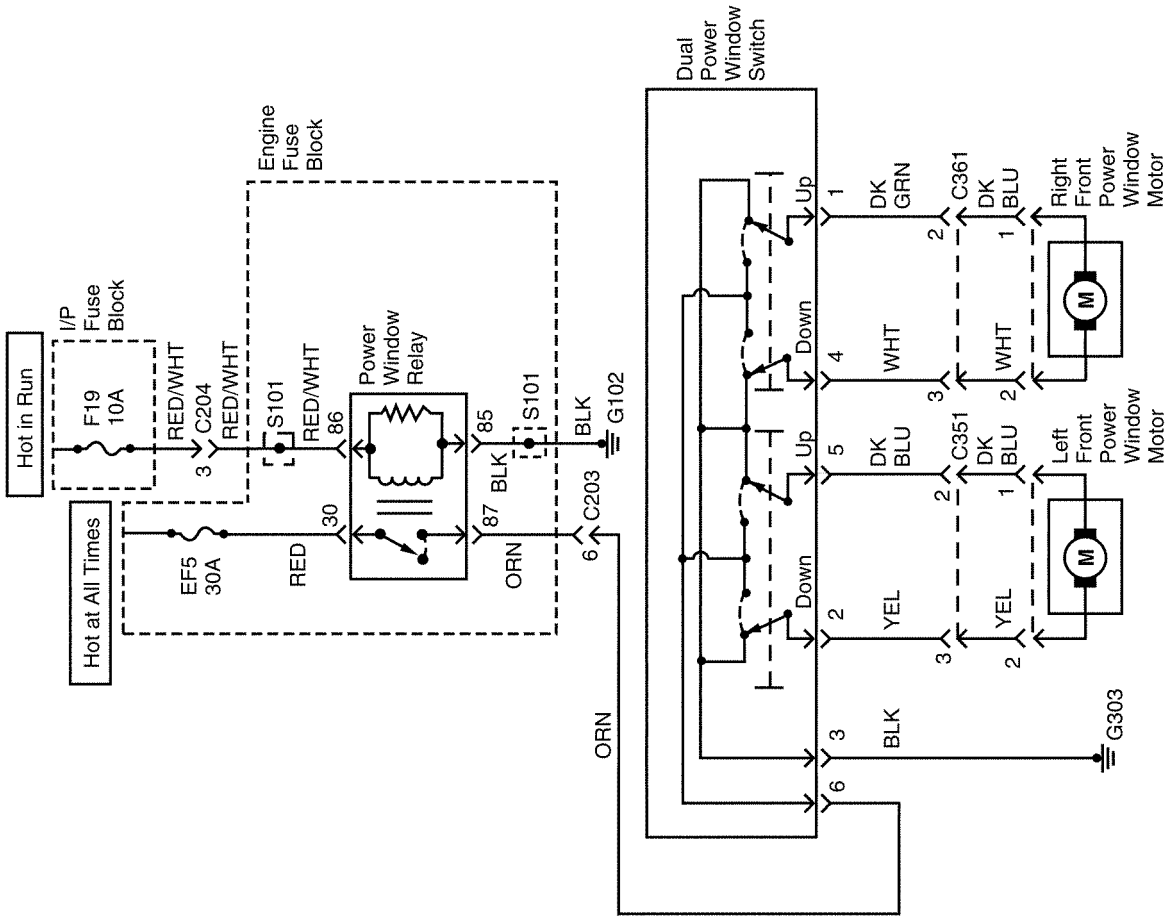


POWER DOOR LOCKS (5-DOOR HATCHBACK)



A29P004A

POWER WINDOWS (FRONT ONLY)





# DIAGNOSIS

## POWER WINDOWS

### System With Only Front Power Windows, One or Both Windows are Inoperative

**Caution:** When powering the window motors directly from a battery with jumper wires, make sure one of the jumper wires contains a fuse. If the jumpers are accidentally touched together, the fuse will prevent sparking and burns from sudden terminal heating.

Step	Action	Value(s)	Yes	No
1	1. Turn the ignition ON. 2. Attempt to operate both power windows. Is either window working?	-	Go to Step 18	Go to Step 2
2	Visually inspect the connection at the dual power window switch. Is the electrical connector correctly attached to the switch?	-	Go to Step 4	Go to Step 3
3	Correctly attach the electrical connector to the dual power window switch. Is the repair complete?	-	System OK	-
4	1. Disconnect the electrical connector from the dual power window switch. 2. Turn the ignition ON. 3. Check the voltage at terminal 6 of the dual power window switch connector. Is the voltage equal to the specified value?	11-14 v	Go to Step 16	Go to Step 5
5	Check fuses F19 and EF5. Is either fuse blown?	-	Go to Step 6	Go to Step 7
6	1. Check for a short circuit and repair if necessary. 2. Replace the blown fuse(s). Is the repair complete?	-	System OK	-
7	1. Turn the ignition ON. 2. Check the voltages at fuses F19 and EF5. Are both voltages equal to the specified value?	11-14 v	Go to Step 9	Go to Step 8
8	Repair the power supply to the fuse which did not indicate battery voltage with the ignition on. Is the repair complete?	-	System OK	-
9	1. Remove the power window relay. 2. Turn the ignition ON. 3. Check the voltage at terminal 30 and terminal 86 of the power window relay socket. (Terminals of the relay socket can be identified by the markings on the bottom of the relay.) Does the voltmeter indicate the specified value at terminals 30 and 86?	11-14 v	Go to Step 11	Go to Step 10
10	Repair the open circuit between the fuses and the power window relay. Is the repair complete?	-	System OK	-

**System With Only Front Power Windows,  
One or Both Windows are Inoperative (Cont'd)**

Step	Action	Value(s)	Yes	No
11	With the power window relay still removed, use an ohmmeter to check the resistance between ground and terminal 85 of the power window relay socket. Does the ohmmeter indicate the specified value?	[ 0 W	Go to Step 13	Go to Step 12
12	Repair the open circuit between ground and terminal 85 of the power window relay socket. Is the repair complete?	-	System OK	-
13	1. Temporarily substitute a known good relay in place of the power window relay. 2. Attempt to operate the power windows. Do the power windows operate with the substituted relay?	-	Go to Step 14	Go to Step 15
14	1. Return the substituted relay to its original position. 2. Replace the original power window relay. Is the repair complete?	-	System OK	-
15	Repair the open circuit between the power window relay socket terminal 87 and the dual power window switch terminal 6. Is the repair complete?	-	System OK	-
16	With the dual power window switch disconnected, use an ohmmeter to check the resistance between ground and terminal 3 of the dual power window switch connector. Is the resistance equal to the specified value?	[ 0 W	Go to Step 18	Go to Step 17
17	Repair the open circuit between ground and terminal 3 of the dual power window switch connector. Is the repair complete?	-	System OK	-
18	1. Remove the trim panel from a door which has an inoperative power window. 2. Move a vehicle battery close enough to the door so that the window motor can be powered directly from the battery with jumper wires. 3. Disconnect the the two-pin window motor connector in the door. Important: To prevent the fuse in the jumper wire from blowing, do not touch the jumper wires together. 4. Attach a jumper wire between the battery negative terminal and one of the terminals in the two-pin window motor connector. 5. Attach a fused jumper wire between the battery positive terminal and the remaining terminal in the two-pin window motor connector. Unless the motor is at the end of its travel, the window should move with the jumpers attached. 6. To move the window in the opposite direction, reverse the jumper wire connections at the window motor connector. Does the power window operate in both directions when the motor is operated directly from a battery?	-	Go to Step 20	Go to Step 19
19	Replace the window motor. Is the repair complete?	-	System OK	-



**System With Only Front Power Windows,  
One or Both Windows are Inoperative (Cont'd)**

Step	Action	Value(s)	Yes	No
20	<ol style="list-style-type: none"> <li>1. Before reconnecting the two-pin window motor connector, connect an ohmmeter between the terminals to check the resistance of the motor.</li> <li>2. Record the ohmmeter reading for motor resistance.</li> <li>3. Reconnect the motor connector and reinstall the door trim panel.</li> <li>4. Disconnect the electrical connector from the dual power window switch.</li> <li>5. At the dual power window switch connector, use an ohmmeter to check the resistance between the terminals which lead to the motor that was tested in Step 15.</li> </ol> <p>Is the resistance at the switch connector approximately equal to the resistance that was previously measured at the motor connector?</p>	-	Go to Step 22	Go to Step 21
21	<p>Repair the open circuit between the window motor and the window switch.</p> <p>Is the repair complete?</p>	-	System OK	-
22	<p>Replace the dual power window switch.</p> <p>Is the repair complete?</p>	-	System OK	-

### System With Front and Rear Power Windows, One or Both Front Windows are Inoperative

**Caution:** When powering the window motors directly from a battery with jumper wires, make sure one of the jumper wires contains a fuse. If the jumpers are accidentally touched together, the fuse will prevent sparking and burns from sudden terminal heating.

Step	Action	Value(s)	Yes	No
1	1. Turn the ignition ON. 2. Attempt to operate each front power window. Is either window working?	-	Go to Step 18	Go to Step 2
2	Visually inspect the connection at the power window main switch. Is the electrical connector correctly attached to the main switch?	-	Go to Step 4	Go to Step 3
3	Correctly attach the electrical connector to the power window main switch. Is the repair complete?	-	System OK	-
4	1. Disconnect the electrical connector from the power window main switch. 2. Turn the ignition ON. 3. Check the voltage at terminal 13 of the power window main switch connector. Is the voltage equal to the specified value?	11-14 v	Go to Step 16	Go to Step 5
5	Check fuses F19 and EF5. Is either fuse blown?	-	Go to Step 6	Go to Step 7
6	1. Check for a short circuit and repair, if necessary. 2. Replace the blown fuse(s). Is the repair complete?	-	System OK	-
7	1. Turn the ignition ON. 2. Check the voltages at fuses F19 and EF5. Are both voltages equal to the specified value?	11-14 v	Go to Step 9	Go to Step 8
8	Repair the power supply to the fuse which did not indicate battery voltage with the ignition on. Is the repair complete?	-	System OK	-
9	1. Remove the power window relay. 2. Turn the ignition ON. 3. Check the voltage at terminal 30 and terminal 86 of the power window relay socket. (Terminals of the relay socket can be identified by the markings on the bottom of the relay.) Does the voltmeter indicate the specified value?	11-14 v	Go to Step 11	Go to Step 10
10	Repair the open circuit between the fuses and the power window relay. Is the repair complete?	-	System OK	-
11	With the power window relay still removed, use an ohmmeter to check the resistance between ground and terminal 85 of the power window relay socket. Does the ohmmeter indicate the specified value?	[ 0 W	Go to Step 13	Go to Step 12
12	Repair the open circuit between ground and terminal 85 of the power window relay socket. Is the repair complete?	-	System OK	-

**System With Front and Rear Power Windows,  
One or Both Front Windows are Inoperative (Cont'd)**

Step	Action	Value(s)	Yes	No
13	1. Temporarily substitute a known good relay in place of the power window relay. 2. Attempt to operate the power windows. Do the power windows operate with the substituted relay?	-	Go to Step 14	Go to Step 15
14	1. Return the substituted relay to its original position. 2. Replace the original power window relay. Is the repair complete?	-	System OK	-
15	Repair the open circuit between the power window relay socket terminal 87 and the power window switch terminal 13. Is the repair complete?	-	System OK	-
16	With the power window main switch disconnected, use an ohmmeter to check the resistance between ground and terminal 2 of the power window switch connector. Is the resistance equal to the specified value?	[ 0 W	Go to Step 18	Go to Step 17
17	Repair the open circuit between ground and terminal 2 of the power window main switch connector. Is the repair complete?	-	System OK	-
18	1. Remove the trim panel from the front door which has an inoperative power window. 2. Move a vehicle battery close enough to the door so that the window motor can be powered directly from the battery with jumper wires. 3. Disconnect the the two-pin window motor connector in the door. Important: To prevent the fuse in the jumper wire from blowing, do not touch the jumper wires together. 4. Attach a jumper wire between the battery negative terminal and one of the terminals in the two-pin window motor connector. 5. Attach a fused jumper wire between the battery positive terminal and the remaining terminal in the two-pin window motor connector. Unless the motor is at the end of its travel, the window should move with the jumpers attached. 6. To move the window in the opposite direction, reverse the jumper wire connections at the window motor connector. Does the power window operate in both directions when the motor is operated directly from a battery?	-	Go to Step 20	Go to Step 19
19	Replace the window motor. Is the repair complete?	-	System OK	-

**System With Front and Rear Power Windows,  
One or Both Front Windows are Inoperative (Cont'd)**

Step	Action	Value(s)	Yes	No
20	1. Before reconnecting the two-pin window motor connector, connect an ohmmeter between the terminals to check the resistance of the motor. 2. Record the ohmmeter reading for motor resistance. 3. Reconnect the motor connector and reinstall the door trim panel. 4. Disconnect the electrical connector from the power window switch. 5. At the power window main switch connector, use an ohmmeter to check the resistance between the terminals which lead to the motor that was tested in Step 15. Is the resistance at the main switch connector approximately equal to the resistance that was previously measured at the motor connector?	-	Go to Step 22	Go to Step 21
21	Repair the open circuit between the window motor and the window switch. Is the repair complete?	-	System OK	-
22	Replace the power window switch. Is the repair complete?	-	System OK	-

### System With Front and Rear Power Windows, One or Both Rear Windows are Inoperative

**Caution:** When powering the window motors directly from a battery with jumper wires, make sure one of the jumper wires contains a fuse. If the jumpers are accidentally touched together, the fuse will prevent sparking and burns from sudden terminal heating.

Step	Action	Value(s)	Yes	No
1	1. Turn the ignition ON. 2. Make sure that the window lock position has not been selected on the power window main switch. 3. Attempt to operate each rear power window. Is either rear power window working?	-	Go to Step 18	Go to Step 2
2	Visually inspect the connection at the power window main switch. Is the electrical connector correctly attached to the main switch?	-	Go to Step 4	Go to Step 3
3	Correctly attach the electrical connector to the power window main switch. Is the repair complete?	-	System OK	-
4	1. Disconnect the electrical connector from the power window main switch. 2. Turn the ignition ON. 3. Check the voltage at terminal 13 of the power window main switch connector. Is the voltage equal to the specified value?	11-14 v	Go to Step 16	Go to Step 5
5	Check fuses F19 and EF5. Is either fuse blown?	-	Go to Step 6	Go to Step 7
6	1. Check for a short circuit and repair, if necessary. 2. Replace the blown fuse(s). Is the repair complete?	-	System OK	-
7	1. Turn the ignition ON. 2. Check the voltages at fuses F19 and EF5. Are both voltages equal to the specified value?	11-14 v	Go to Step 9	Go to Step 8
8	Repair the power supply to the fuse which did not indicate battery voltage with the ignition on. Is the repair complete?	-	System OK	-
9	1. Turn the ignition ON. 2. Remove the power window relay. 3. Check the voltage at terminal 30 and terminal 86 of the power window relay socket. (Terminals of the relay socket can be identified by the markings on the bottom of the relay.) Does the voltmeter indicate the specified value?	11-14 v	Go to Step 11	Go to Step 10
10	Repair the open circuit between the fuses and the power window relay. Is the repair complete?	-	System OK	-
11	With the power window relay still removed, use an ohmmeter to check the resistance between ground and terminal 85 of the power window relay socket. Does the ohmmeter indicate the specified value?	[ 0 W	Go to Step 13	Go to Step 12
12	Repair the open circuit between ground and terminal 85 of the power window relay socket. Is the repair complete?	-	System OK	-

**System With Front and Rear Power Windows,  
One or Both Rear Windows are Inoperative (Cont'd)**

Step	Action	Value(s)	Yes	No
13	1. Temporarily substitute a known good relay in place of the power window relay. 2. Attempt to operate the power windows. Do the power windows operate with the substituted relay?	-	Go to Step 14	Go to Step 15
14	1. Return the substituted relay to its original position. 2. Replace the original power window relay. Is the repair complete?	-	System OK	-
15	Repair the open circuit between the power window relay socket terminal 87 and the power window main switch terminal 13. Is the repair complete?	-	System OK	-
16	With the power window main switch disconnected, use an ohmmeter to check the resistance between ground and terminal 2 of the power window main switch connector. Is the resistance equal to the specified value?	[ 0 W	Go to Step 18	Go to Step 17
17	Repair the open circuit between ground and terminal 2 of the power window switch connector. Is the repair complete?	-	System OK	-
18	1. Remove the trim panel from the rear door which has an inoperative power window. 2. Move a vehicle battery close enough to the door so that the window motor can be powered directly from the battery with jumper wires. 3. Disconnect the the two-pin window motor connector in the door. Important: To prevent the fuse in the jumper wire from blowing, do not touch the jumper wires together. 4. Attach a jumper wire between the negative battery terminal and one of the terminals in the two-pin window motor connector. 5. Attach a fused jumper wire between the positive battery terminal and the remaining terminal in the two-pin power window motor connector. Unless the motor is at the end of its travel, the power window should move with the jumpers attached. 6. To move the power window in the opposite direction, reverse the jumper wire connections at the power window motor connector. Does the power window operate in both directions when the motor is operated directly from a battery?	-	Go to Step 20	Go to Step 19
19	Replace the power window motor. Is the repair complete?	-	System OK	-
20	1. Make sure the window lock on the main switch is off. 2. Turn the ignition ON. 3. At the rear power window switch connector, check the voltage at terminal 1. Is the voltage equal to the specified value?	11-14v	Go to Step 21	Go to Step 29

**System With Front and Rear Power Windows,  
One or Both Rear Windows are Inoperative (Cont'd)**

Step	Action	Value(s)	Yes	No
21	<ol style="list-style-type: none"> <li>1. At the power window motor two-pin connector, use an ohmmeter to measure the resistance of the power window motor. Record the resistance.</li> <li>2. Re-connect the two-pin power window motor connector.</li> <li>3. Disconnect the rear power window switch connector.</li> <li>4. Use an ohmmeter to measure between terminals 3 and 6 of the rear power window switch connector.</li> </ol> <p>Is the resistance measured at the rear power window switch connector equal to the resistance previously measured at the rear power window motor connector?</p>	-	Go to Step 23	Go to Step 22
22	<p>Repair the open circuit between the rear power window switch and the rear power window motor connector.</p> <p>Is the repair complete?</p>	-	System OK	-
23	<ol style="list-style-type: none"> <li>1. Remove the rear power window switch for testing.</li> <li>2. Connect an ohmmeter between terminals 4 and 3 of the rear power window switch, and observe the ohmmeter.</li> <li>3. Connect the ohmmeter between terminals 2 and 6 of the rear power window switch, and observe the ohmmeter.</li> </ol> <p>For both tests, did the ohmmeter indicate the specified value?</p>	[ 0 W	Go to Step 25	Go to Step 24
24	<p>Replace the rear power window switch.</p> <p>Is the repair complete?</p>	-	System OK	-
25	<ol style="list-style-type: none"> <li>1. With the rear power window switch removed for testing, connect an ohmmeter between terminals 1 and 3, and put the switch in the DOWN position. Observe the ohmmeter.</li> <li>2. Connect the ohmmeter between terminals 1 and 6, and put the switch in the UP position and observe the ohmmeter.</li> </ol> <p>For both tests, did the ohmmeter indicate the specified value?</p>	[ 0 W	Go to Step 26	Go to Step 24
26	<ol style="list-style-type: none"> <li>1. Reconnect the rear power window switch connector.</li> <li>2. Disconnect the electrical connector from the power window main switch.</li> <li>3. Use an ohmmeter to measure the resistance at the power window main switch between terminals 7 and 10 if you are testing the left rear window, or terminals 11 and 14 if you are testing the right rear window.</li> </ol> <p>Is the resistance equal to the resistance previously measured at the motor connector?</p>	-	Go to Step 28	Go to Step 27
27	<p>Repair the open circuit between the power window main switch and the rear power window switch.</p> <p>Is the repair complete?</p>	-	System OK	-

**System With Front and Rear Power Windows,  
One or Both Rear Windows are Inoperative (Cont'd)**

Step	Action	Value(s)	Yes	No
28	Replace the power window main switch. Is the repair complete?	-	System OK	-
29	1. Remove the power window main switch, but do not disconnect the electrical connector. 2. Make sure the window lock is off. 3. Turn the ignition ON. 4. Check the voltage at terminal 5 of the power window main switch. Is the voltage equal to the specified value?	11-14 v	Go to Step 27	Go to Step 28



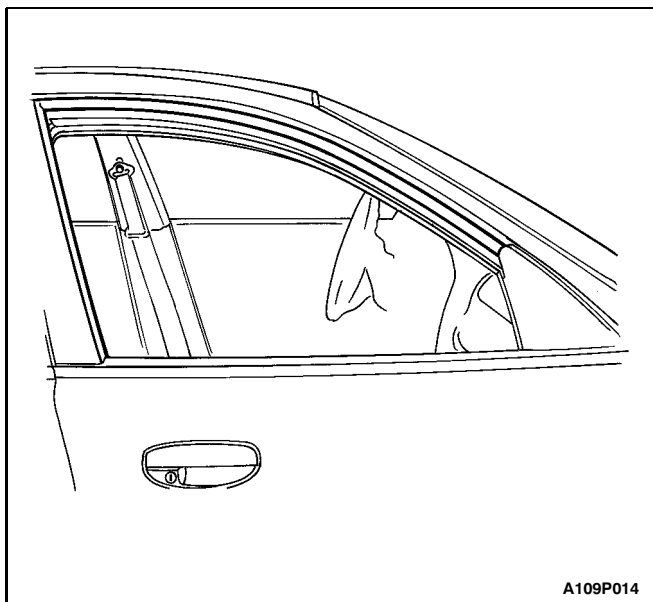
## MAINTENANCE AND REPAIR

### ON-VEHICLE SERVICE

#### FRONT DOOR GLASS RUN

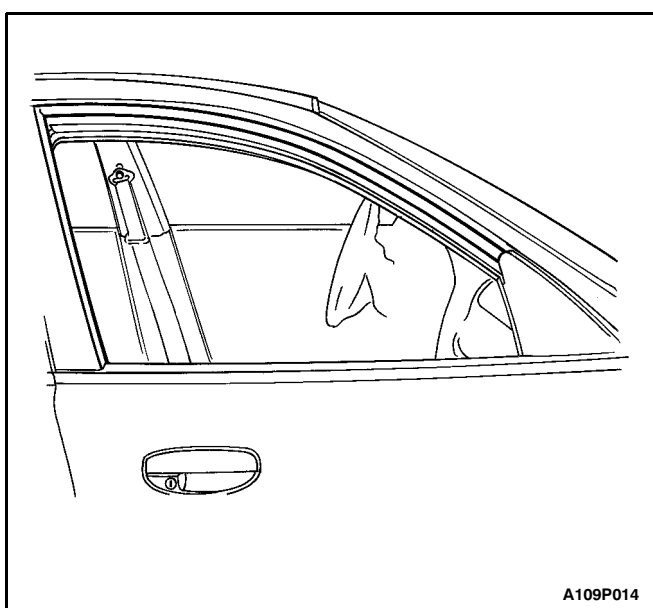
##### Removal Procedure

1. Remove the outside rearview mirror. Refer to Section 9L, Glass and Mirrors.
2. Remove the front door glass. Refer to Section 9L, Glass and Mirrors.
3. Remove the glass run.



##### Installation Procedure

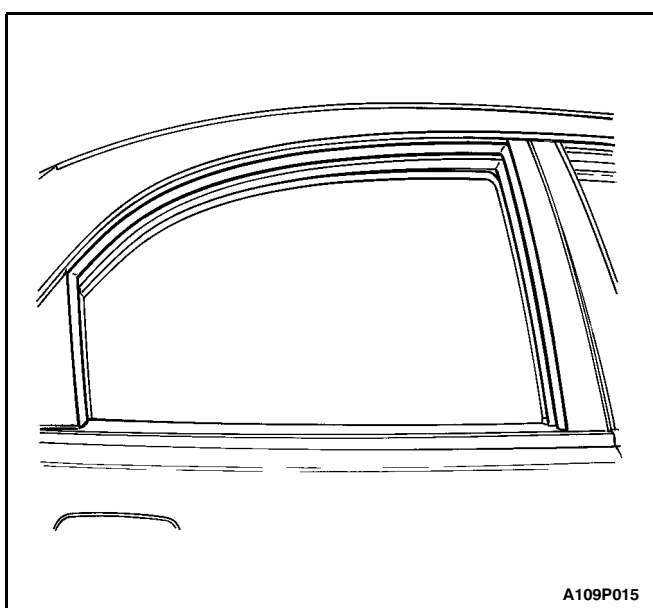
1. Install the glass run.
2. Install the front door glass. Refer to Section 9L, Glass and Mirrors.
3. Install the outside rearview mirror. Refer to Section 9L, Glass and Mirrors.

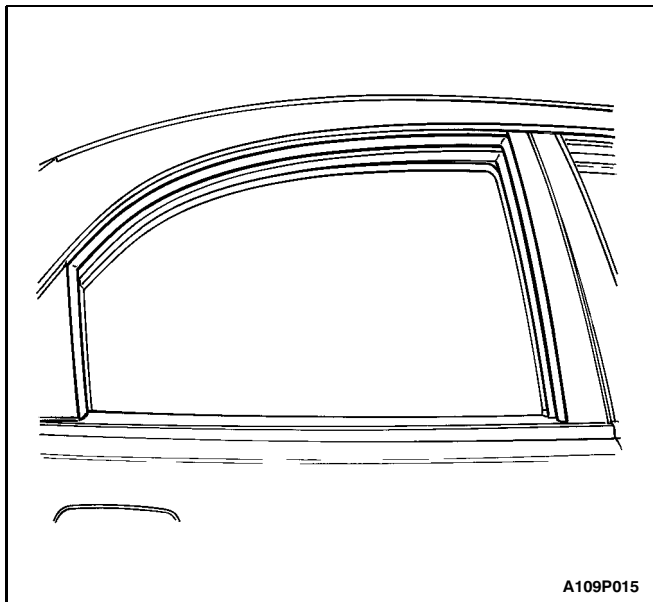


#### REAR DOOR GLASS RUN

##### Removal Procedure

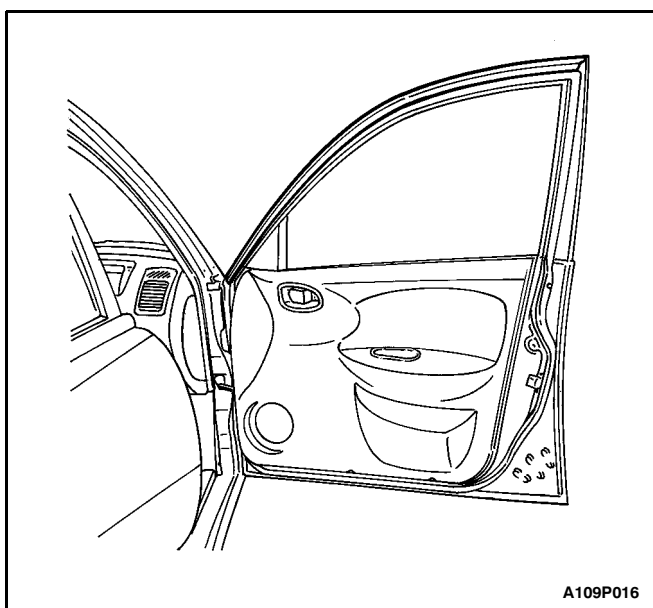
1. Remove the rear door glass. Refer to Section 9L, Glass and Mirrors.
2. Remove the rear door interior and exterior garnish trim.
3. Remove the glass run.





### Installation Procedure

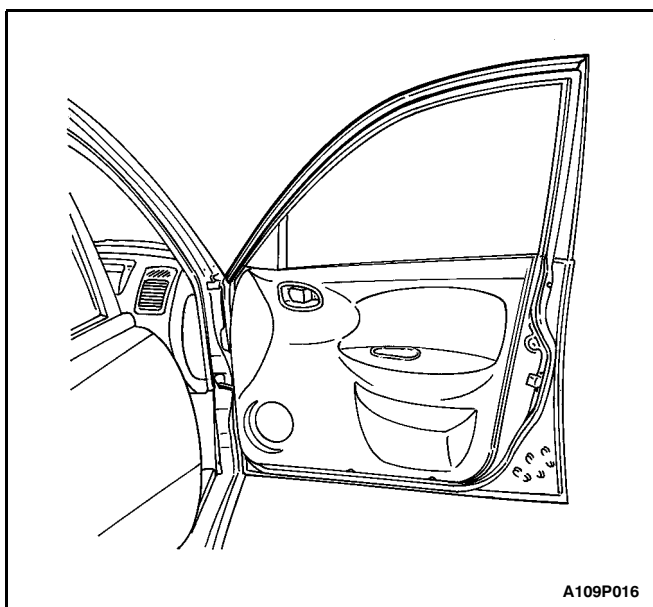
1. Install the glass run.
2. Install the rear door interior and exterior garnish trim.
3. Install the rear door glass. Refer to Section 9L, Glass and Mirrors.



### FRONT DOOR SECONDARY WEATHERSTRIP

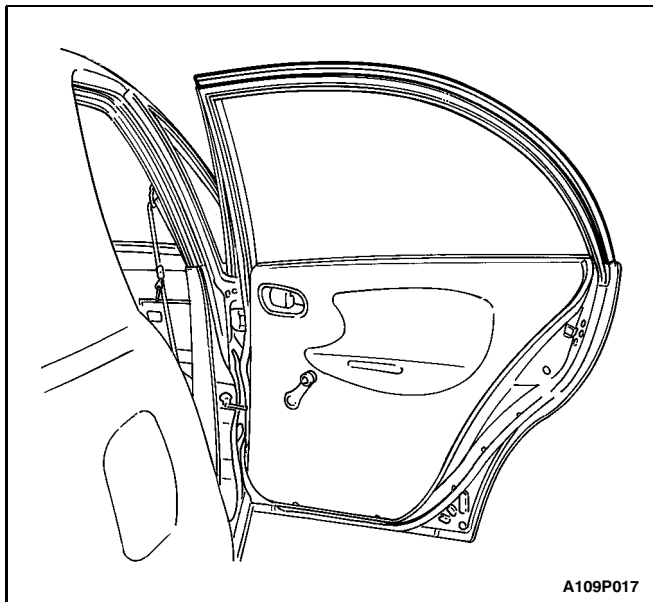
#### Removal Procedure

1. Remove the outside rearview mirror. Refer to Section 9L, Glass and Mirrors.
2. Remove the front door secondary weatherstrip.



### Installation Procedure

1. Install the front door secondary weatherstrip.
2. Install the outside rearview mirror. Refer to Section 9L, Glass and Mirrors.

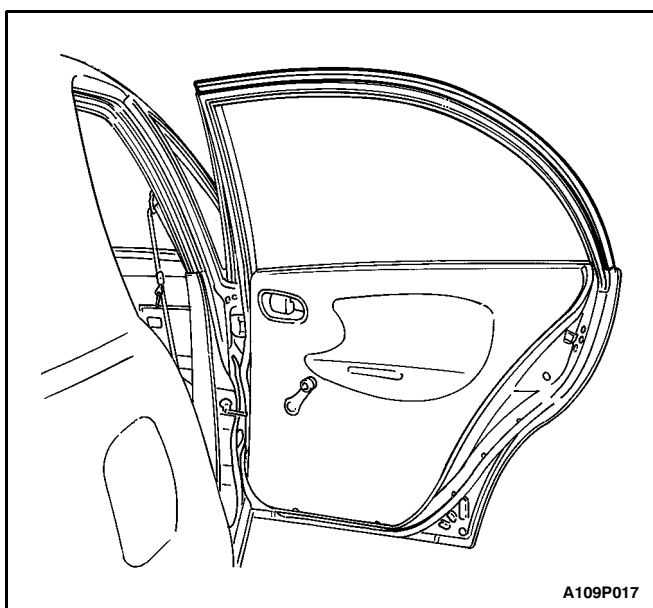


A109P017

## REAR DOOR SECONDARY WEATHERSTRIP

### Removal Procedure

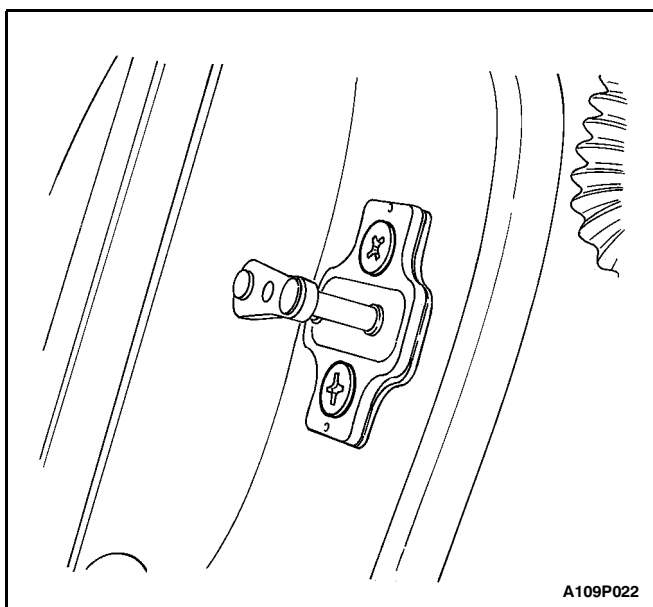
1. Remove the rear door interior and exterior garnish trim.
2. Remove the rear door secondary weatherstrip.



A109P017

### Installation Procedure

1. Install the rear door secondary weatherstrip.
2. Install the rear door interior and exterior garnish trim.

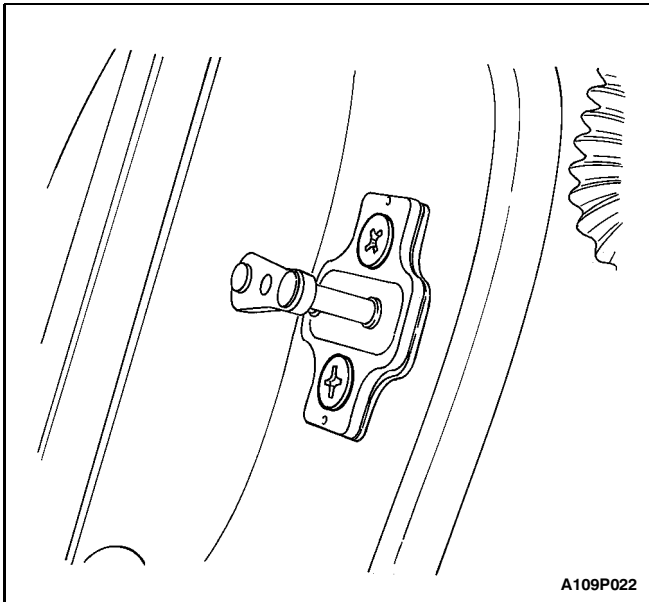


A109P022

## DOOR LOCK STRIKER

### Removal Procedure

1. Remove the screws and the door lock striker.



## Installation Procedure

**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

1. Install the screws and the door lock striker.

### Tighten

Tighten the door lock striker screws to 20 N•m (15 lb-ft).

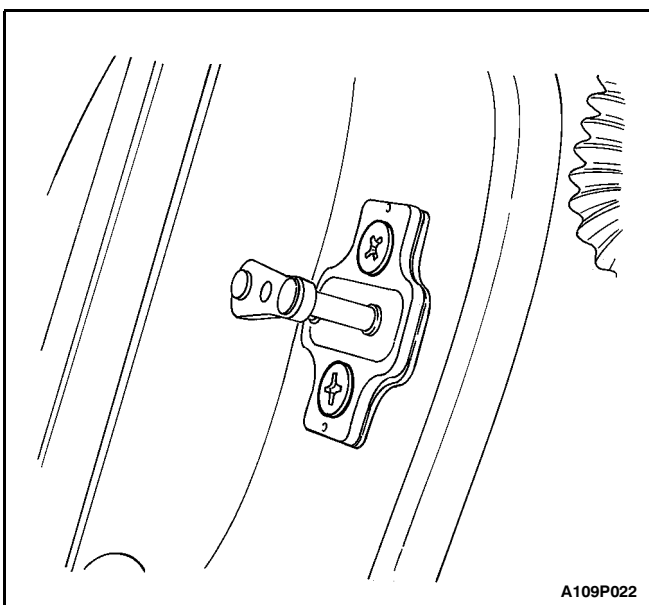
## DOOR LOCK STRIKER ADJUSTMENT

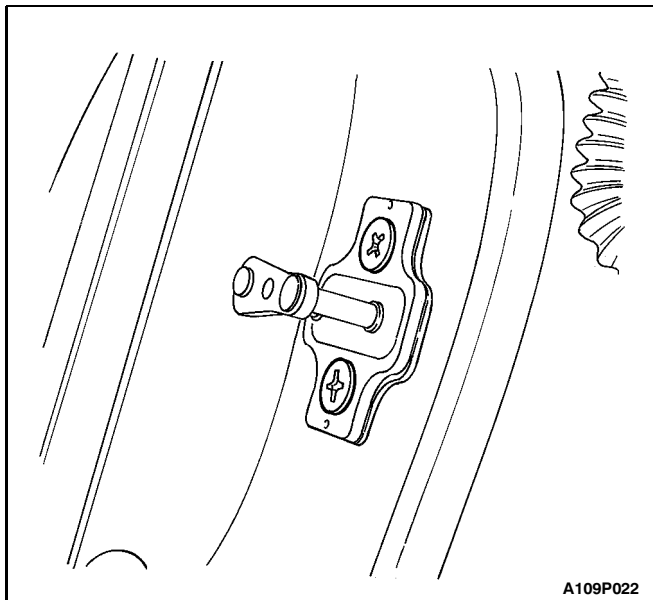
**Notice:** The door lock striker is an important attaching part that can affect the performance of vital components and systems and can cause major repair expenses. If replacement becomes necessary, the door lock striker must be replaced by one with the same part number or with an equivalent part if replacement becomes necessary. Do not use a replacement part of lesser quality or of a substitute design. The specified torque values must be used during reassembly in order to ensure the proper retention of the part.

The door lock striker consists of a striker with two screws that are threaded into a tapped, floating cage plate located in the appropriate body pillar. This floating cage plate allows the striker to be easily adjusted in or out and up or down. The door is secured in the closed position when the door lock fork snaps over and engages the striker.

### Fore/Aft Adjustment

1. The door must be properly aligned.
2. Close the door until the lock fork contacts the striker.
3. Stand next to the door opening and move the door slowly in and out, just touching the striker each time.
4. The alignment of the lock fork and the striker can be easily seen. The lock fork should be perpendicular to and fall near the middle of the striker. The lock fork should fall near the middle of the striker between the B-pillar and the end of the striker.



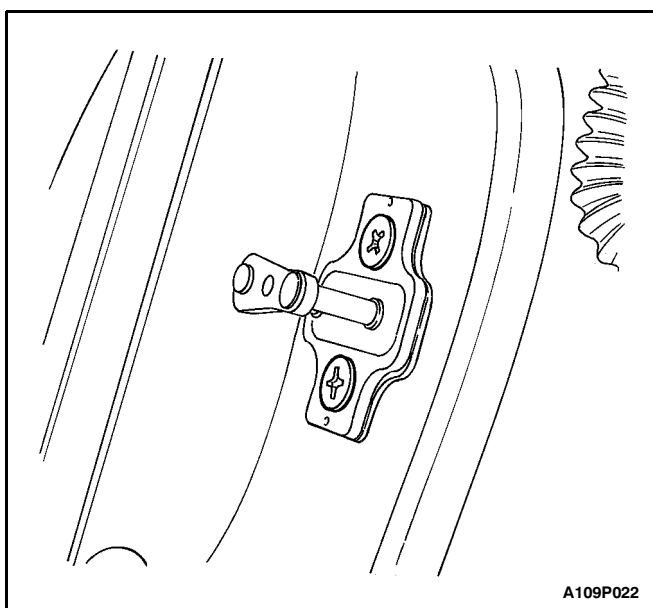


A109P022

5. If a fore or aft adjustment is required, use the following steps:

- 5.1. Remove the striker screws.
- 5.2. Remove the spacer in order to move the striker toward the rear of the vehicle.
- 5.3. Add a 2 mm (0.08 inch) spacer in order to move the striker toward the front of the vehicle.
- 5.4. Install the striker screws.

6. Perform the up/down or the in/out adjustment. Refer to "Up/Down or In/Out Adjustment" in this section.



A109P022

### Up/Down or In/Out Adjustment

An adjustment of the striker in the up and down or in and out directions may be necessary for a number of reasons: vehicle frame damage as the result of a collision, installation of new door weatherstripping, customer complaints of excessive windnoise, or difficulty in opening or closing the door. In order to adjust the door striker in an up and down or in and out direction, perform the following procedure:

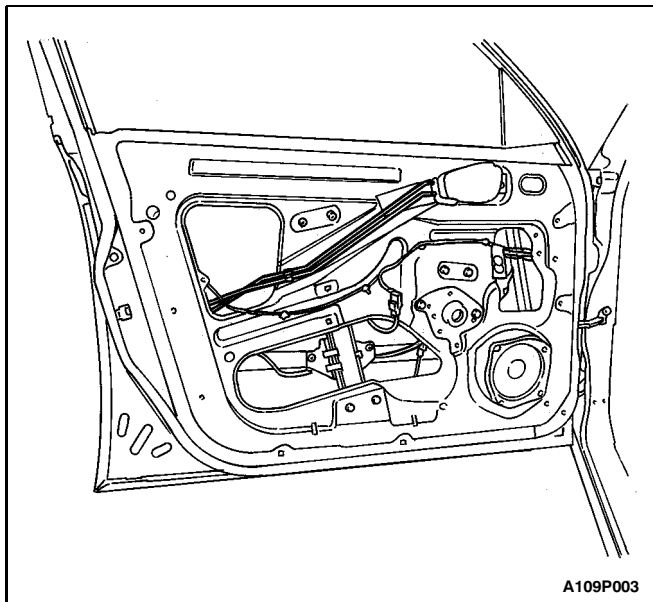
1. The door must be properly aligned.
2. Loosen the striker screws.
3. The floating cage plate can be moved slightly using the ends of the striker screws. Move the floating cage plate to the desired position.

**Notice:** It is important to use a flat-end rotary file in order not to damage the tapped floating cage plate. The striker screws and the tapped floating cage plate are important attaching parts that could affect the performance of vital components and systems.

4. If proper adjustment requires that the floating cage plate be moved more than is possible, use an electric hand drill and a 3/8- inch rotary file with a flat head in order to enlarge the body opening in the direction required.
5. Tighten the striker screws to the correct position.

### Tighten

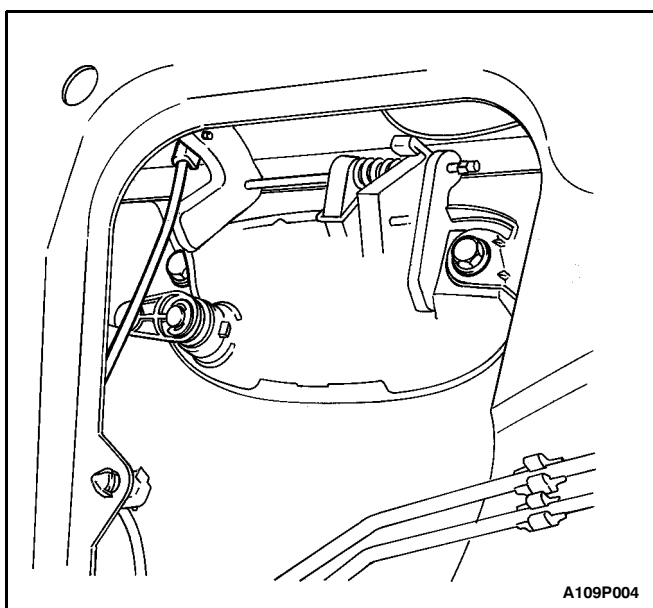
Tighten the door lock striker screws to 20 N•m (15 lb-ft).



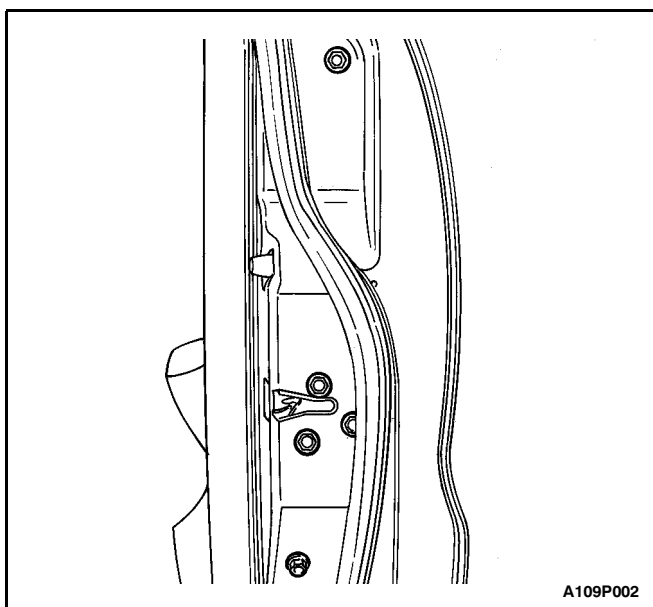
## FRONT DOOR LOCK

### Removal Procedure

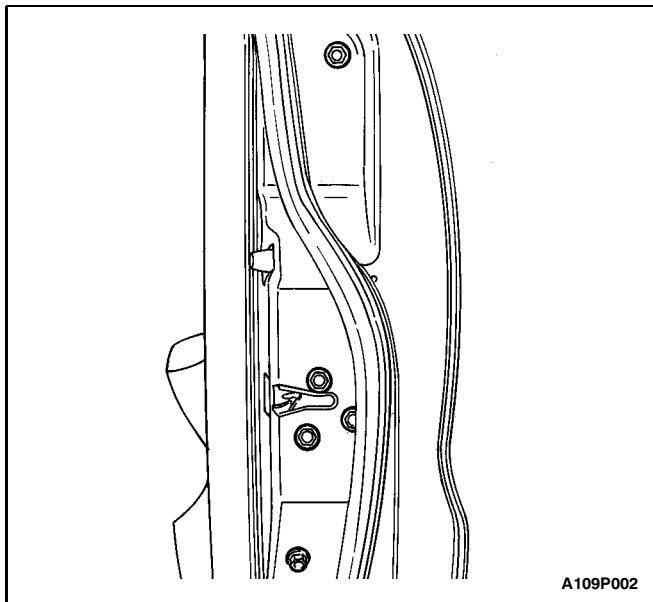
1. Disconnect the negative battery cable.
2. Remove the seal trim. Refer to "Door Seal Trim" in this section.
3. Disconnect the inside door handle and the lock rods.



4. Disconnect the outside door handle and the lock rods.



5. Remove the bolts and the guide rail.
6. Remove the screws and the front door lock.
7. Disconnect the electrical connector.



## Installation Procedure

1. Connect the electrical connector.
2. Connect the inside door handle and the lock rods.
3. Connect the outside door handle and the lock rods.

**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

4. Install the front door lock with the screws.

### Tighten

Tighten the front door lock screws to 8 N·m (71 lb-in).

5. Install the guide rail with the bolts.

### Tighten

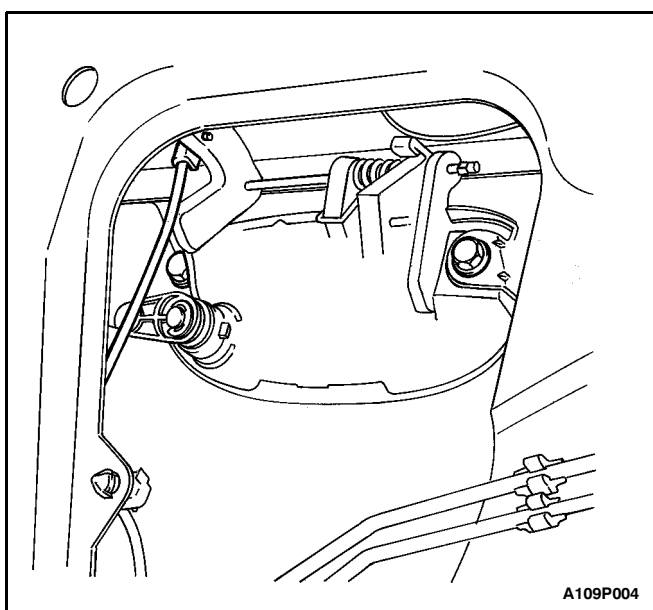
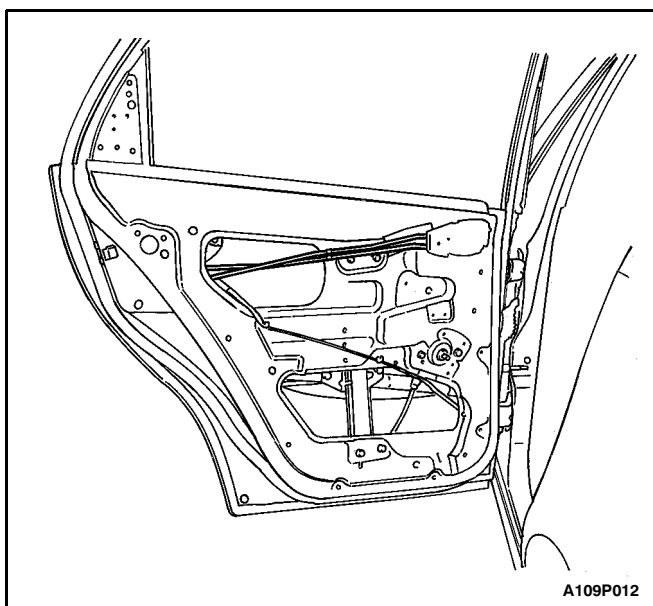
Tighten the guide rail bolts to 7 N·m (62 lb-in).

6. Install the seal trim. Refer to "Door Seal Trim" in this section.
7. Connect the negative battery cable.

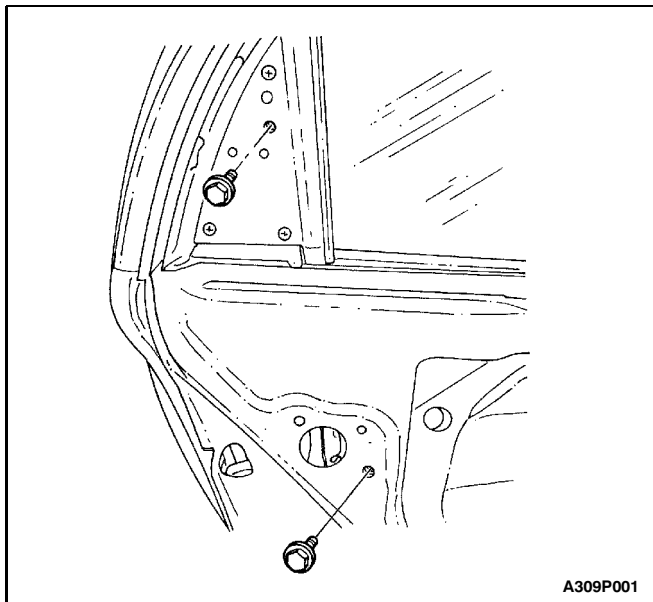
## CHILDPROOF REAR DOOR LOCK

### Removal Procedure

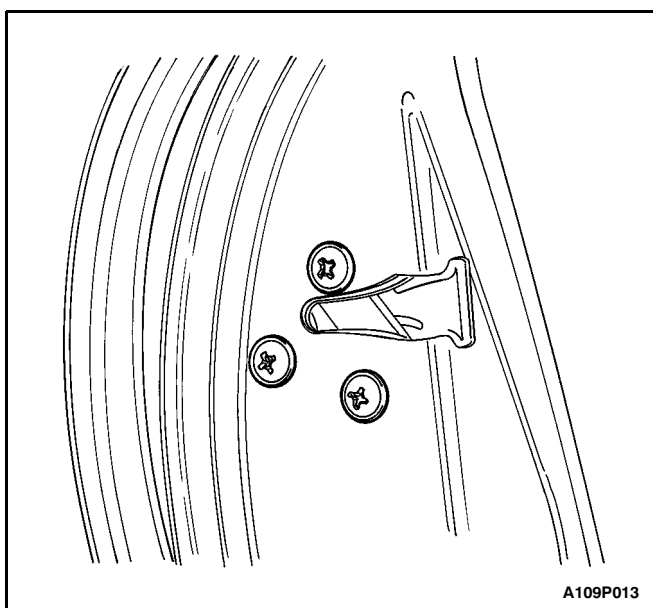
1. Disconnect the negative battery cable.
2. Remove the door seal trim. Refer to "Door Seal Trim" in this section.
3. Disconnect the inside door handle and the lock rods.



4. Disconnect the outside door handle and the lock rods.



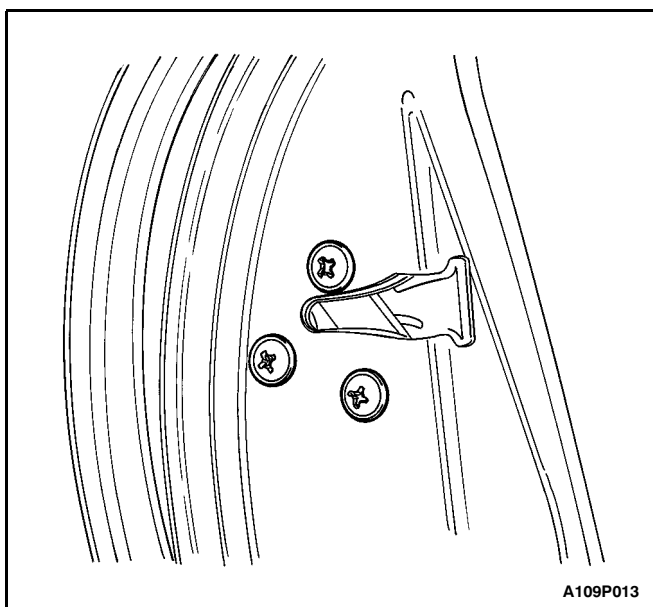
5. Remove the bolts and the guide rail.



6. Remove the screws and the lock.

7. Disconnect the electrical connector.

8. Disconnect the lock rods at the lock.



### Installation Procedure

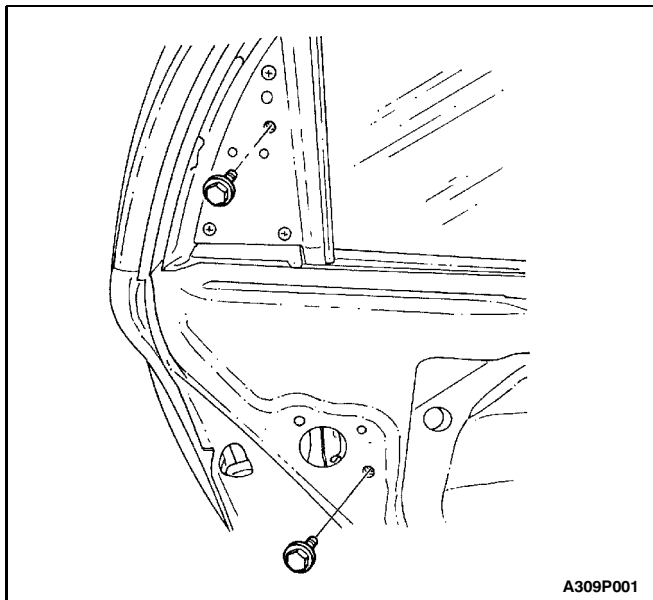
**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

1. Install the rear door lock with the screws.

#### Tighten

Tighten the rear door lock screws to 8 N•m (71 lb-in).

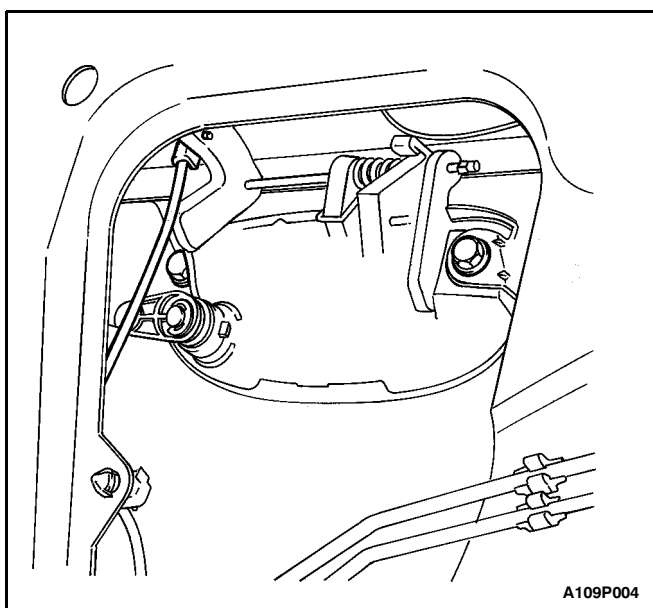




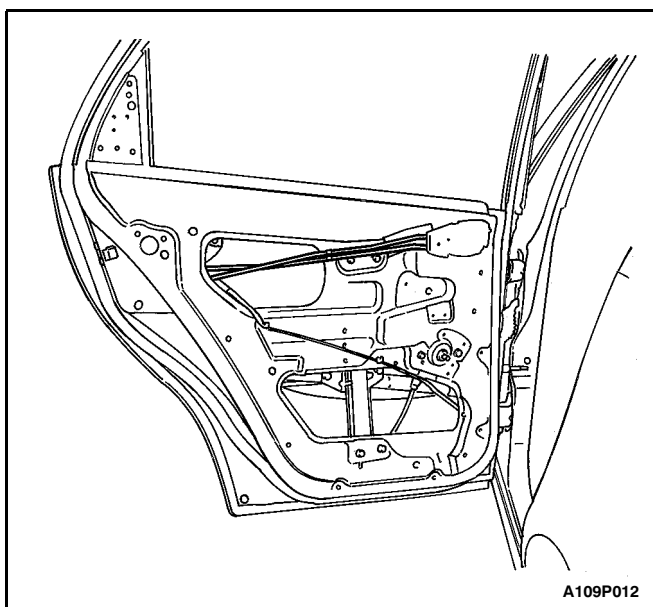
2. Connect the electrical connector.
3. Install the guide rail with the bolts.

### **Tighten**

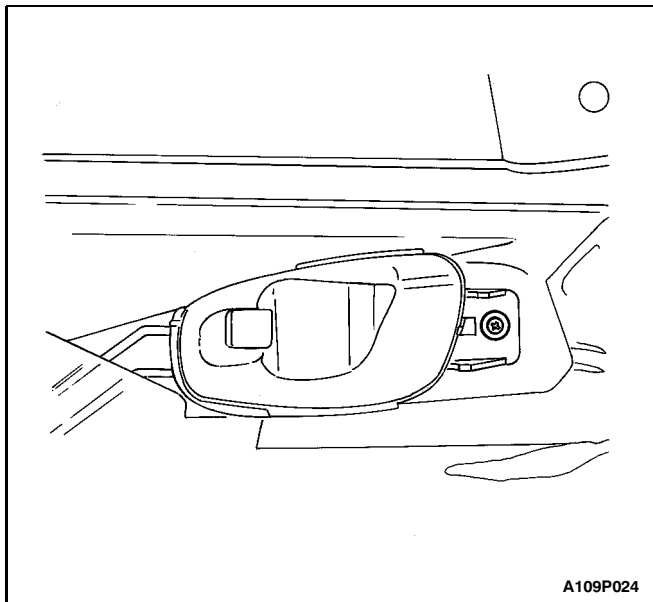
Tighten the guide rail bolts to 7 N•m (62 lb-in).



4. Connect the outside door handle and the lock rods.



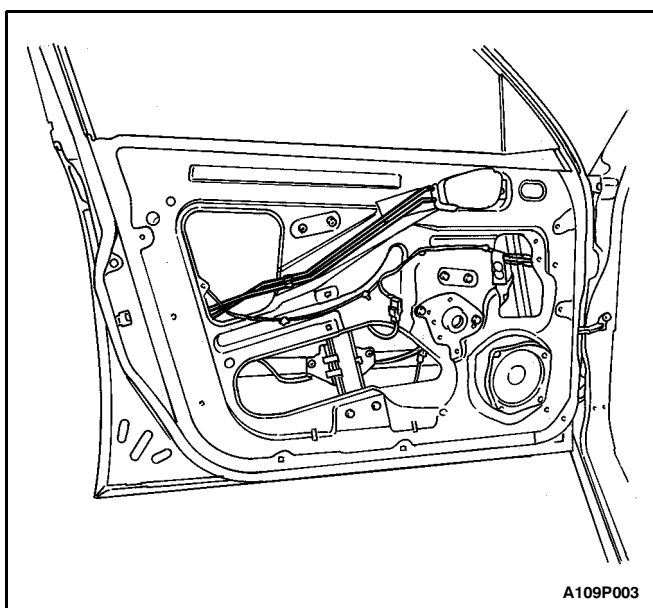
5. Connect the inside door handle and the lock rods.
6. Install the door seal trim. Refer to "Door Seal Trim" in this section.
7. Connect the negative battery cable.



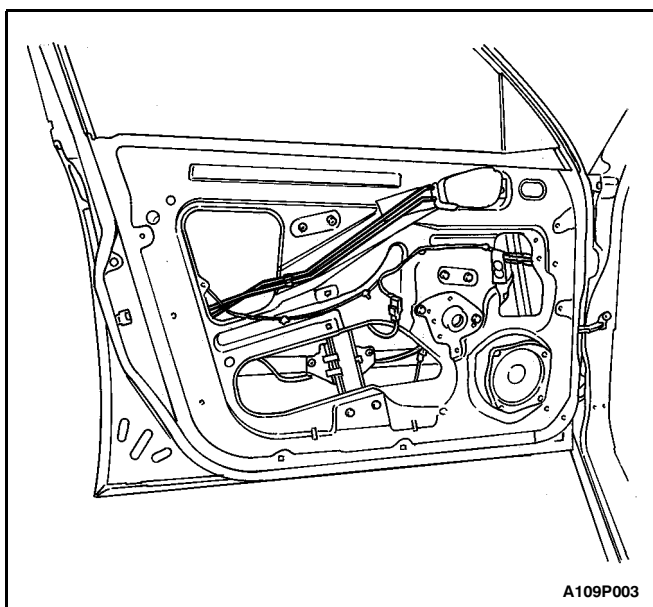
## INSIDE DOOR HANDLE

### Removal Procedure

1. Remove the door seal trim. Refer to "Door Seal Trim" in this section.
2. Remove the screw securing the door handle to the door.
3. Slide the door handle forward and remove it from the door.

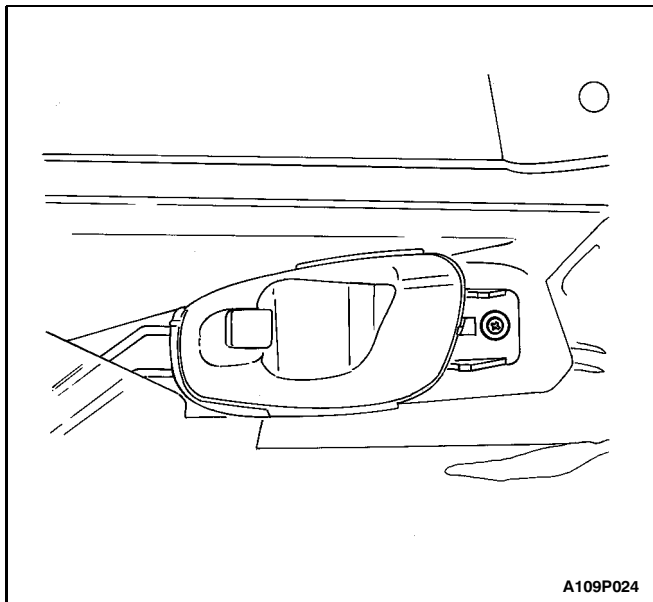


4. Disconnect the inside door handle and the lock rods.



### Installation Procedure

1. Connect the inside door handle and the lock rods.



2. Insert the inside door handle into the slots in the door.
3. Slide the door handle rearward.

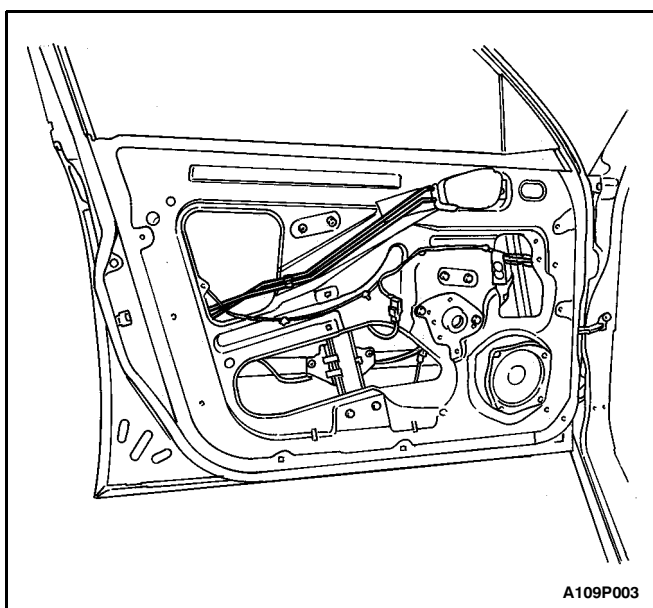
**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

4. Install the inside door handle screw.

### **Tighten**

Tighten the inside door handle screw to 3 N•m (27 lb-in).

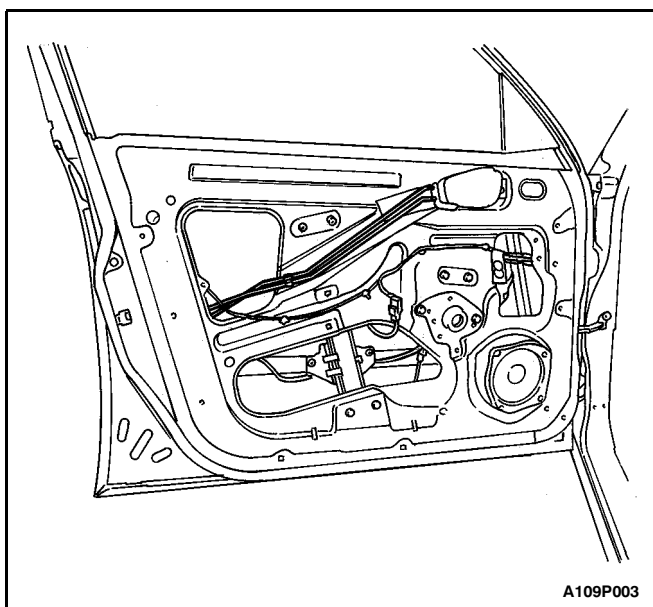
5. Install the door seal trim. Refer to "Door Seal Trim" in this section.



## **INSIDE LOCK ROD**

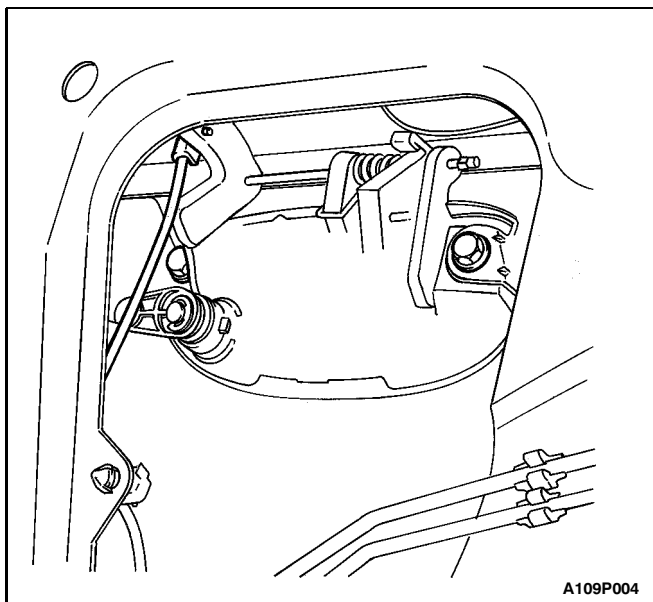
### **Removal Procedure**

1. Remove the inside door handle. Refer to "Inside Door Handle" in this section.
2. Disconnect the inside lock rods from the door handle and the lock.



### **Installation Procedure**

1. Connect the inside lock rods to the door handle and the lock.
2. Install the inside door handle. Refer to "Inside Door Handle" in this section.

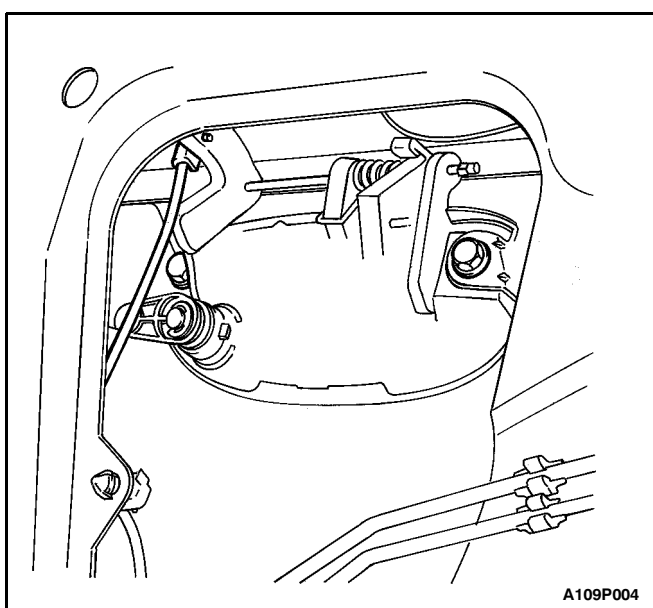


A109P004

## OUTSIDE DOOR HANDLE

### Removal Procedure

1. Remove the door seal trim. Refer to "Door Seal Trim" in this section.
2. Disconnect the outside door handle and the lock rods.
3. Remove the bolts and the door handle.



A109P004

### Installation Procedure

1. Connect the outside door handle and the lock rods.

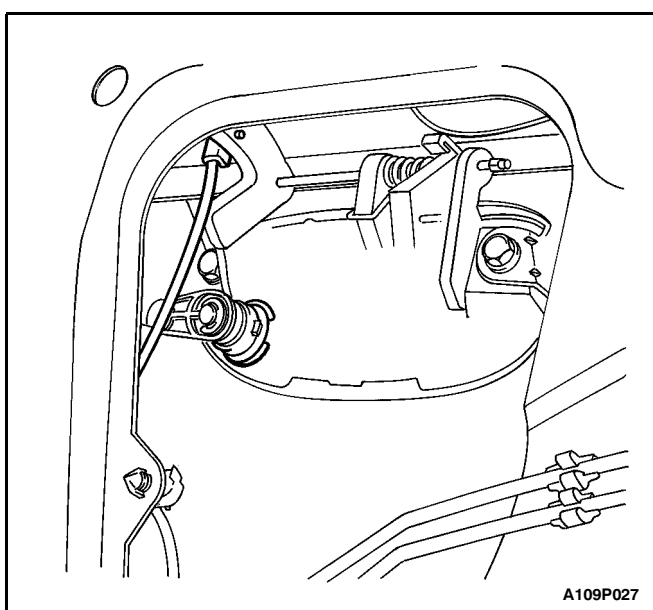
**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

2. Install the door handle with the bolts.

#### Tighten

Tighten the outside door handle bolts to 4.5 N•m (40 lb-in).

3. Install the door seal trim. Refer to "Door Seal Trim" in this section.

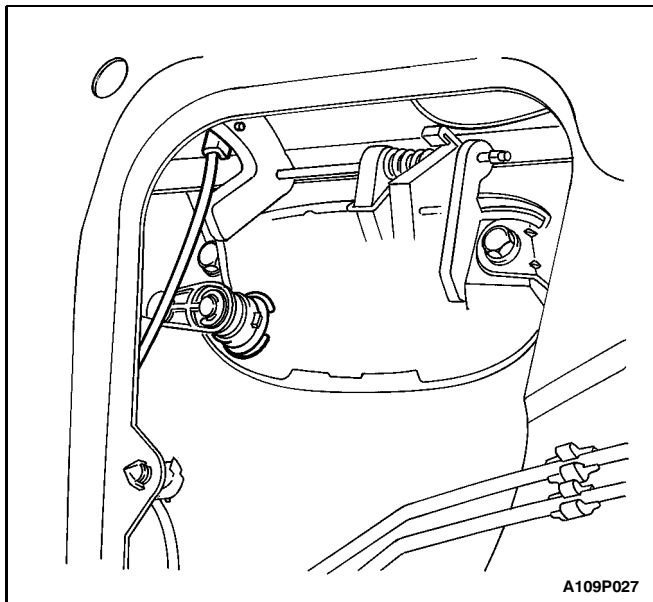


A109P027

## DOOR LOCK CYLINDER

### Removal Procedure

1. Remove the door seal trim. Refer to "Door Seal Trim" in this section.
2. Disconnect the outside door handle and the lock rods.
3. Remove the retaining clip and the lock cylinder.

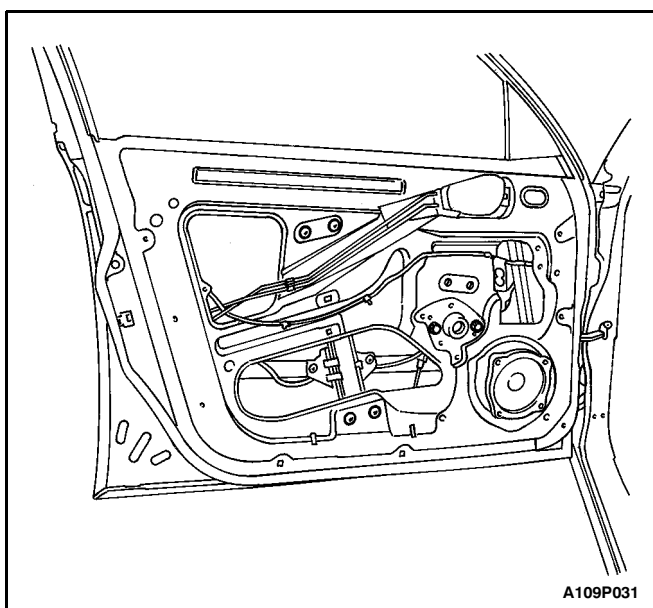


### Installation Procedure

1. Install the lock cylinder with the retaining clip.
2. Connect the outside door handle and the lock rods.

**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

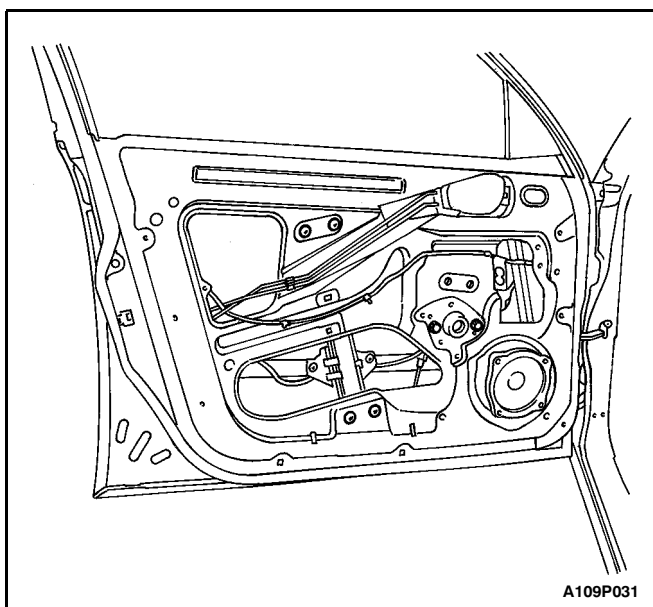
3. Install the door seal trim. Refer to "Door Seal Trim" in this section.



### MANUAL FRONT WINDOW REGULATOR

#### Removal Procedure

1. Remove the front door glass. Refer to Section 9L, Glass and Mirrors.
2. Remove the nuts and the window regulator.



#### Installation Procedure

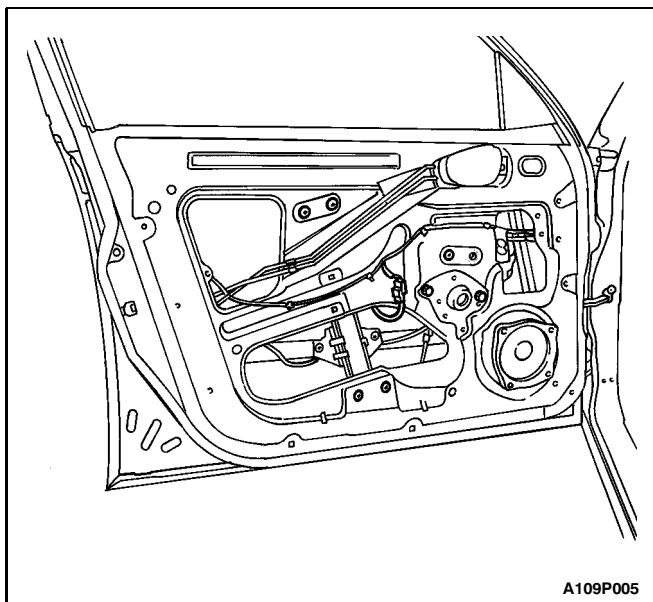
**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

1. Install the window regulator and the nuts.

#### Tighten

Tighten the window regulator nuts to 7 N·m (62 lb-in).

2. Install the front door glass. Refer to Section 9L, Glass and Mirrors.

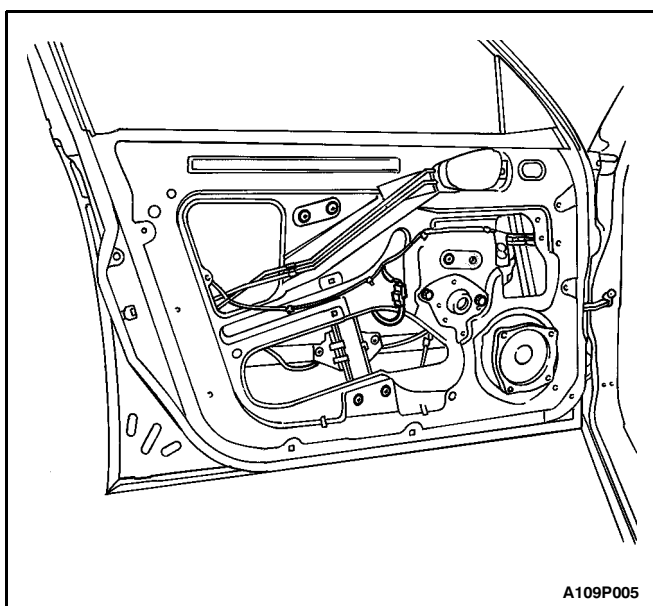


A109P005

## POWER WINDOW REGULATOR

### Removal Procedure

1. Disconnect the negative battery cable.
2. Remove the door glass. Refer to Section 9L, Glass and Mirrors.
3. Remove the nuts and the regulator.
4. Disconnect the electrical connector. (Front door power window regulator shown, rear door power window regulator similar.)



A109P005

### Installation Procedure

1. Connect the electrical connector.

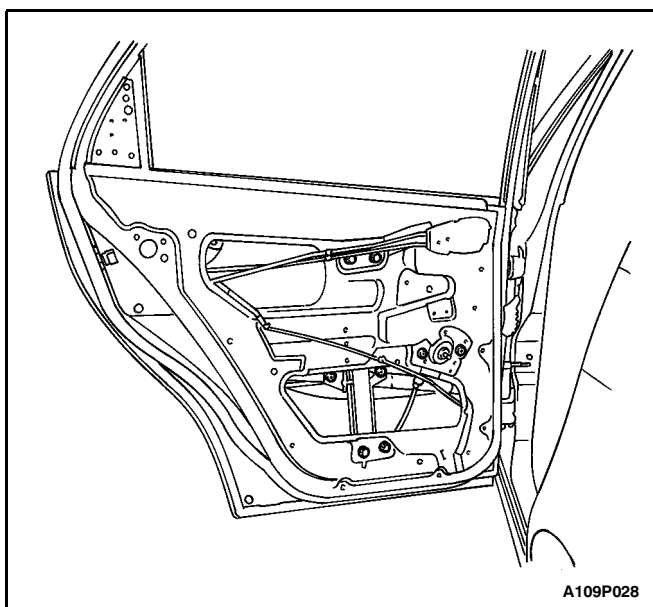
**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

2. Install the window regulator with the nuts.

#### Tighten

Tighten the window regulator nuts to 7 N•m (62 lb-in).

3. Install the front door glass. Refer to Section 9L, Glass and Mirrors.
4. Connect the negative battery cable. (Front door power window regulator shown, rear door power window regulator similar.)

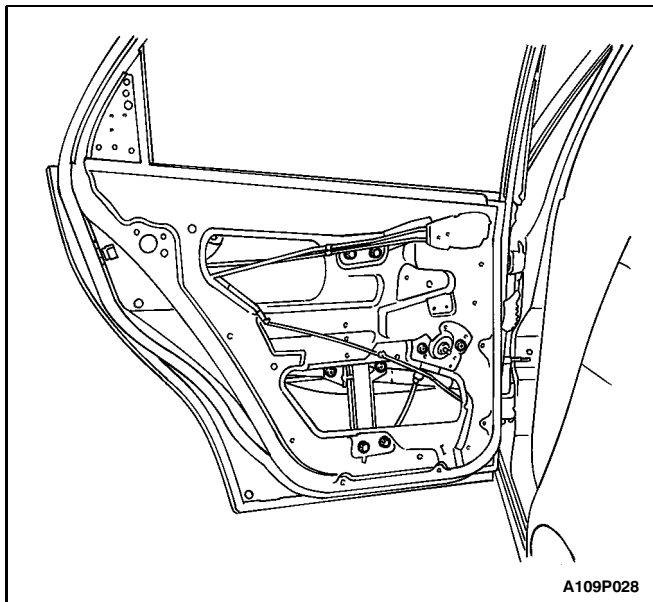


A109P028

## MANUAL REAR WINDOW REGULATOR

### Removal Procedure

1. Remove the rear door glass. Refer to Section 9L, Glass and Mirrors.
2. Remove the nuts and the window regulator.



A109P028

## Installation Procedure

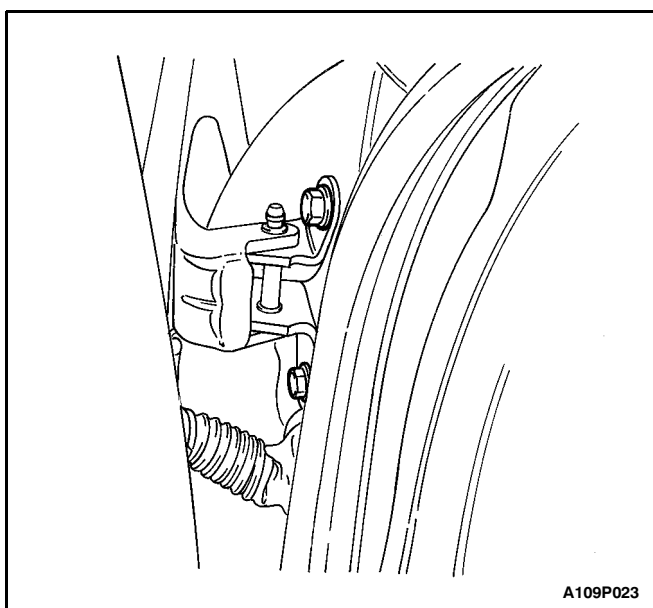
**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

1. Install the window regulator with the nuts.

### Tighten

Tighten the window regulator nuts to 7 N·m (62 lb-in).

2. Install the rear door glass. Refer to Section 9L, Glass and Mirrors.

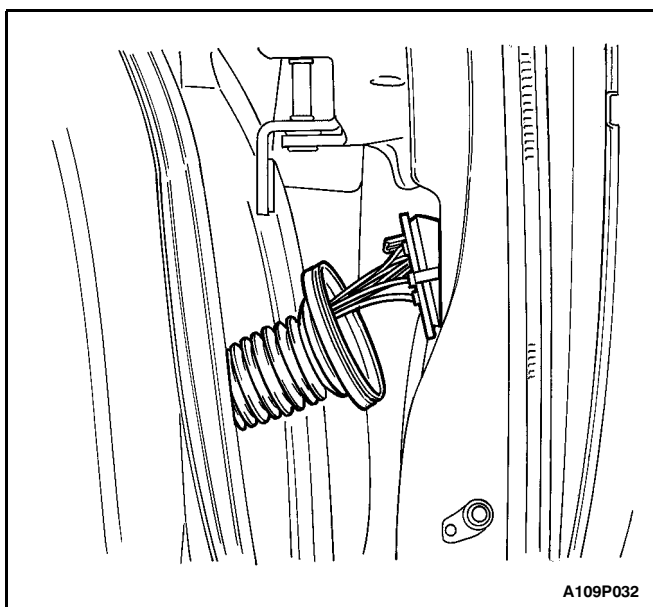


A109P023

## FRONT DOOR ASSEMBLY

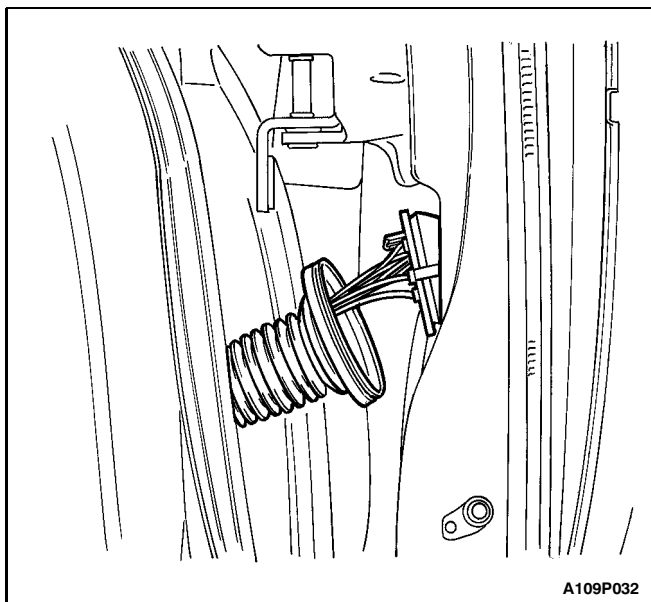
### Removal Procedure

1. Disconnect the negative battery cable.
2. Remove the door hold open link. Refer to "Door Hold Open Link" in this section.
3. Remove the body-to-door rubber grommet and the electrical wires.
4. With the aid of another technician, remove the bolts and the front door.



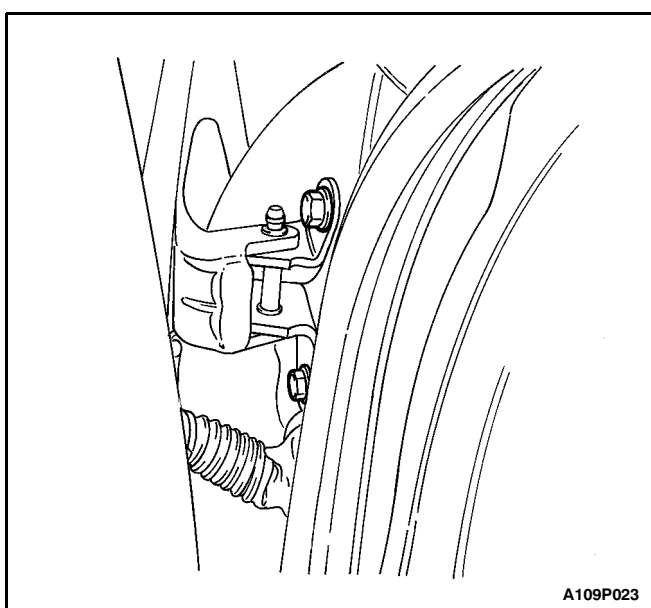
A109P032

5. Disconnect the body-to-door rubber grommet and the electrical connector.



## Installation Procedure

1. Connect the electrical connector and the body-to-door rubber grommet.



**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

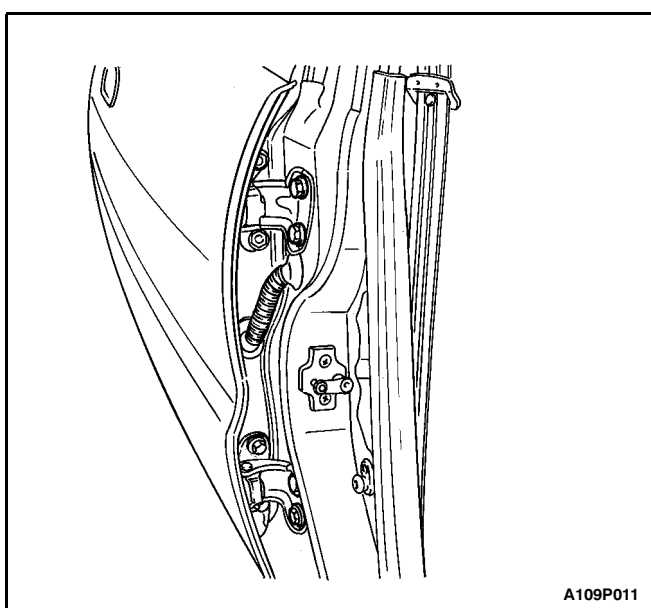
2. With the aid of another technician, lightly secure the front door with the bolts.
3. Adjust the door for proper fit.

### Tighten

Tighten the hinge-to-body bolts to 39 N•m (29 lb-ft).

Tighten the hinge-to-door bolts to 15 N•m (11 lb-ft).

4. Install the door hold open link. Refer to "Door Hold Open Link" in this section.
5. Connect the negative battery cable.
6. Perform the waterleak test. Refer to Section 9I, Waterleaks.
7. Check for windnoise. Refer to Section 9J, Windnoise.

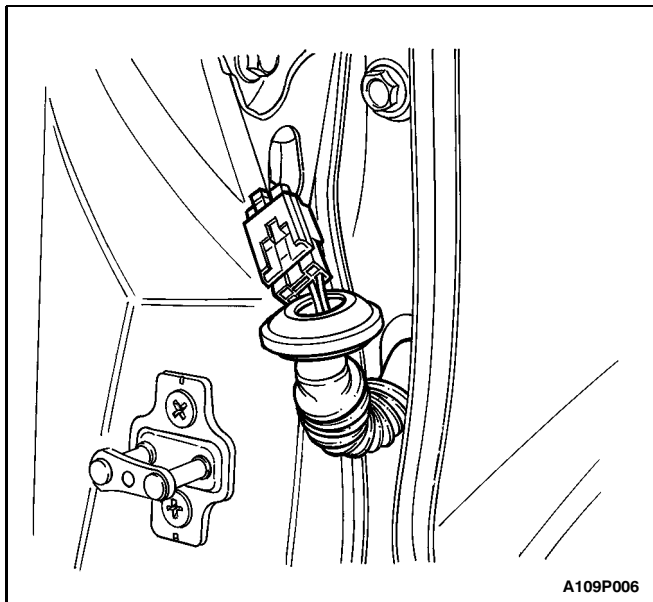


## REAR DOOR ASSEMBLY

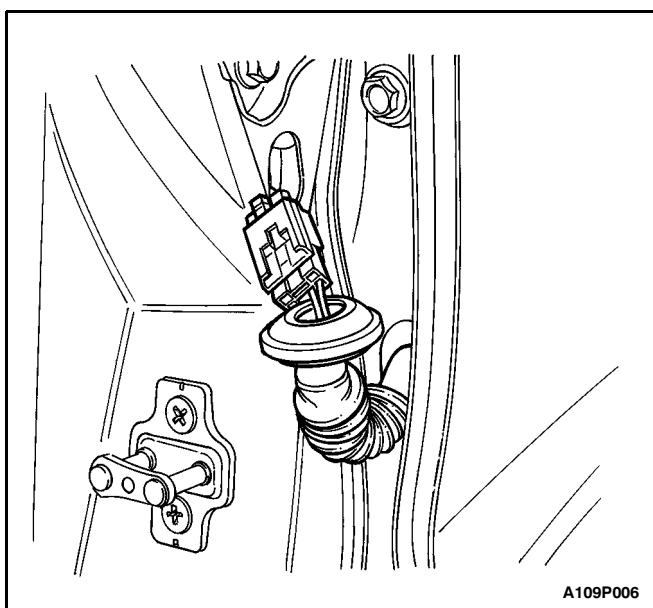
### Removal Procedure

1. Disconnect the negative battery cable.
2. Remove the door hold open link. Refer to "Door Hold Open Link" in this section.
3. With the aid of another technician, remove the bolts and the rear door.



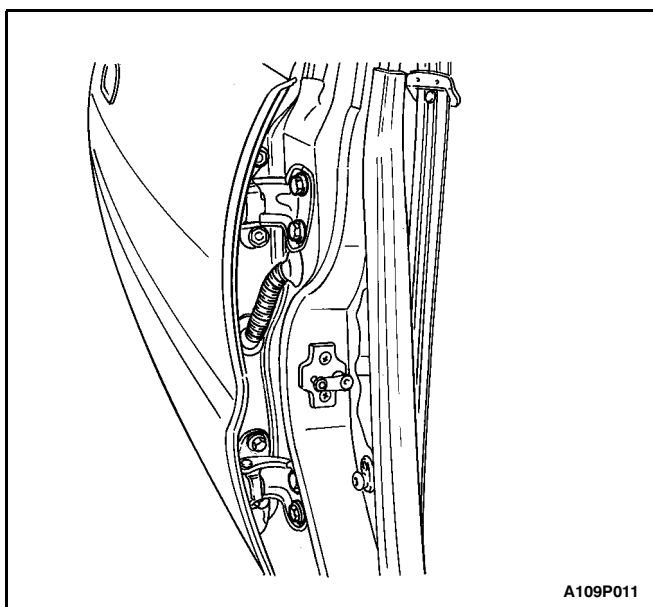


4. Disconnect the body-to-door rubber grommet and the electrical connector.



### Installation Procedure

1. Connect the body-to-door rubber grommet and the electrical connector.



**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

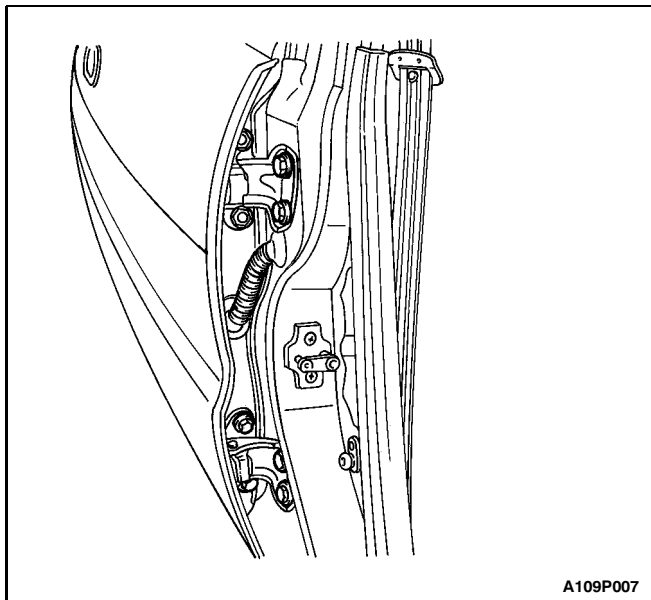
2. With the aid of another technician, lightly secure the rear door with the bolts.
3. Adjust the door for proper fit.

### Tighten

Tighten the hinge-to-body bolts to 39 N•m (29 lb-ft).

Tighten the hinge-to-door bolts to 15 N•m (11 lb-ft).

4. Install the rear door hold open link. Refer to "Door Hold Open Link" in this section.
5. Connect the negative battery cable.
6. Perform the waterleak test. Refer to Section 9I, Waterleaks.
7. Check for windnoise. Refer to Section 9J, Windnoise.

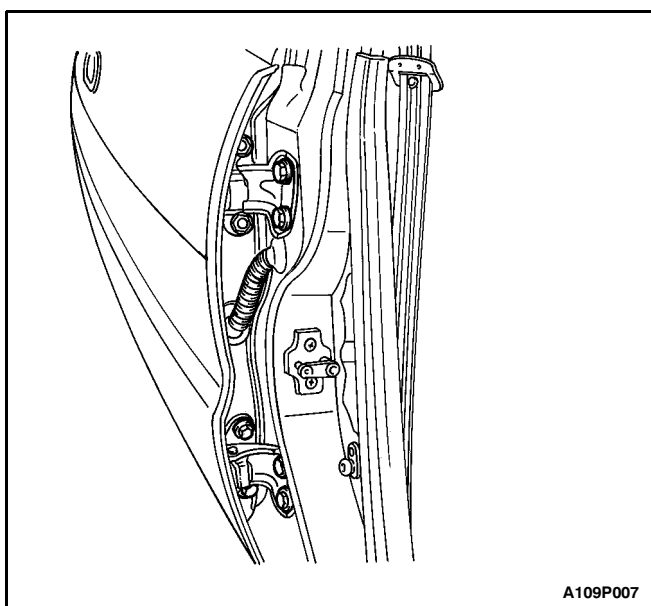


A109P007

## DOOR HINGE

### Removal Procedure

1. With the aid of another technician, remove the bolts and the hinge from the door and the body.



A109P007

### Installation Procedure

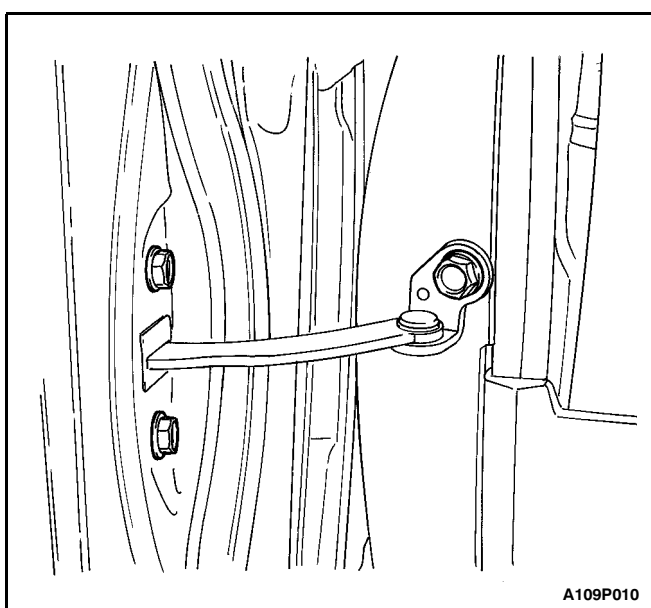
**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

1. With the aid of another technician, install the hinge to the door and the body with the bolts.

### Tighten

Tighten the hinge-to-body bolts to 39 N•m (29 lb-ft).

Tighten the hinge-to-door bolts to 15 N•m (11 lb-ft).

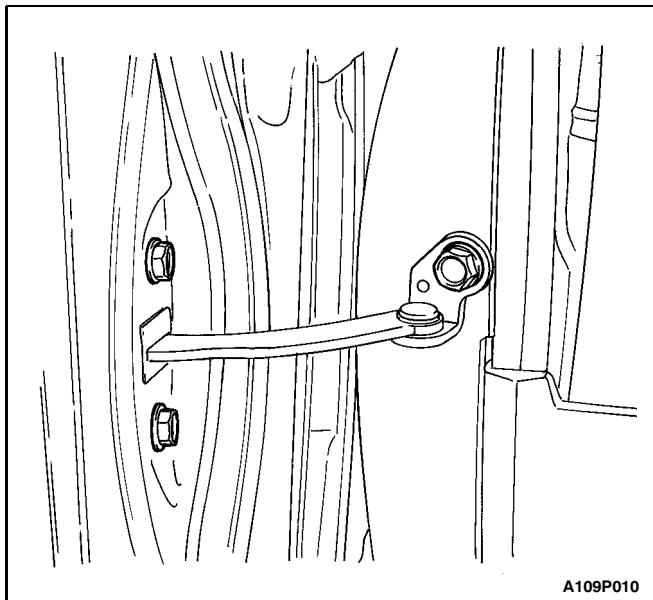


A109P010

## DOOR HOLD OPEN LINK

### Removal Procedure

1. Remove the door trim panel. Refer to Section 9G, Interior Trim.
2. Reposition the door seal trim.
3. Remove the bolts on the door and on the body.
4. Remove the door hold open link.



A109P010

## Installation Procedure

**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

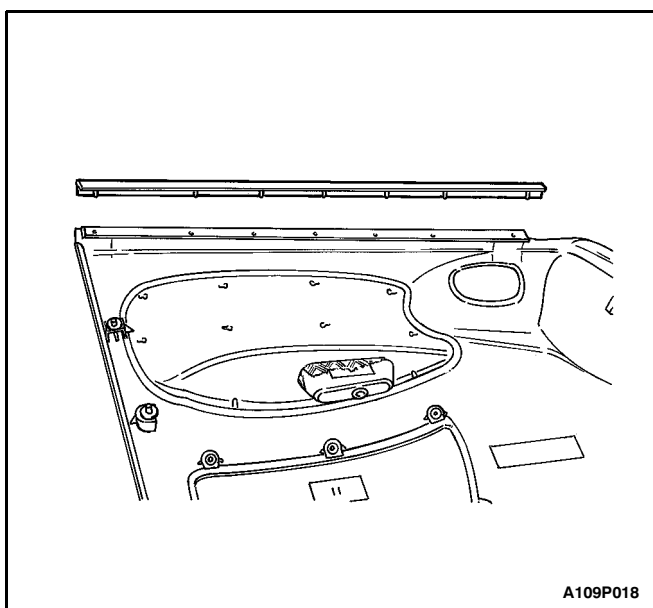
1. Install the door hold open link to the door and the body with the bolts.

### Tighten

Tighten the door hold open link-to-body bolts to 25 N•m (18 lb-ft).

Tighten the door hold open link-to-door bolts to 5 N•m (44 lb-in).

2. Reposition the door seal trim.
3. Install the door trim panel. Refer to Section 9G, Interior Trim.

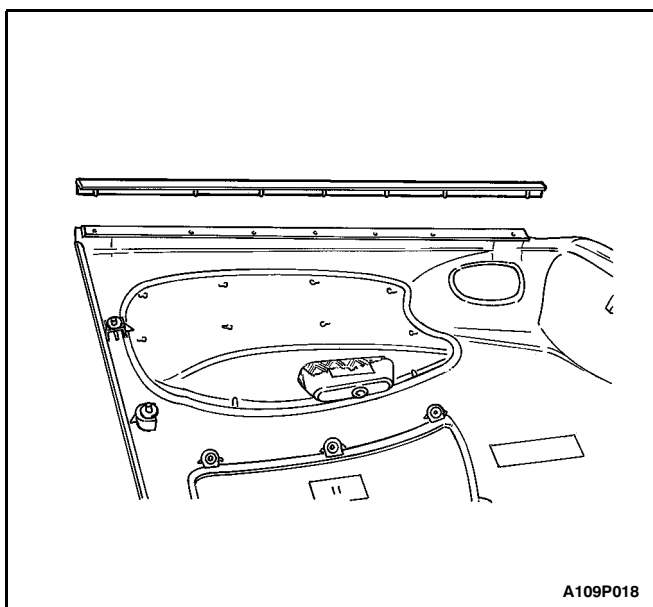


A109P018

## INSIDE CHANNEL MOLDING

### Removal Procedure

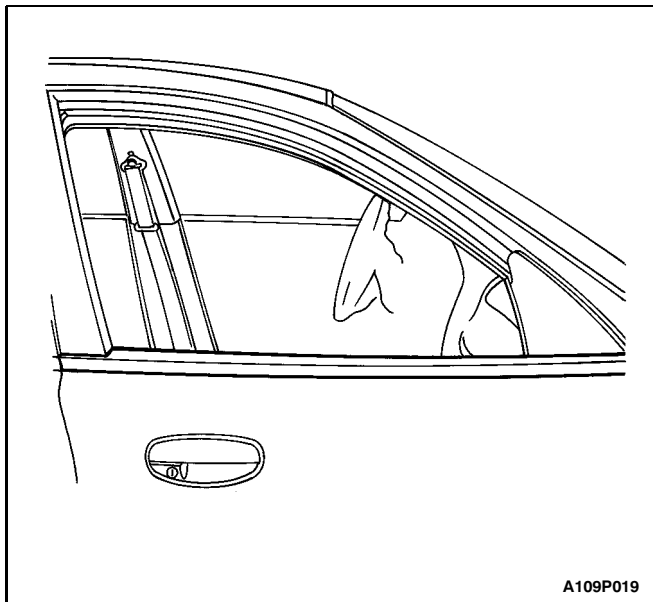
1. Remove the door trim panel. Refer to Section 9G, Interior Trim.
2. Straighten the retaining tabs in order to release the channel molding from the door trim panel.
3. Remove the channel molding.



A109P018

### Installation Procedure

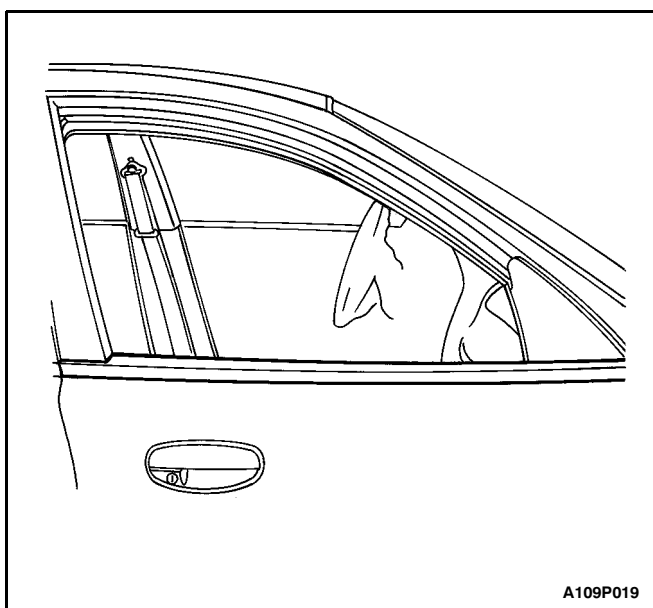
1. Install the channel molding onto the door trim panel.
2. Bend the retaining tabs to secure the channel molding to the door trim panel.
3. Install the door trim panel. Refer to Section 9G, Interior Trim.



## OUTSIDE CHANNEL MOLDING

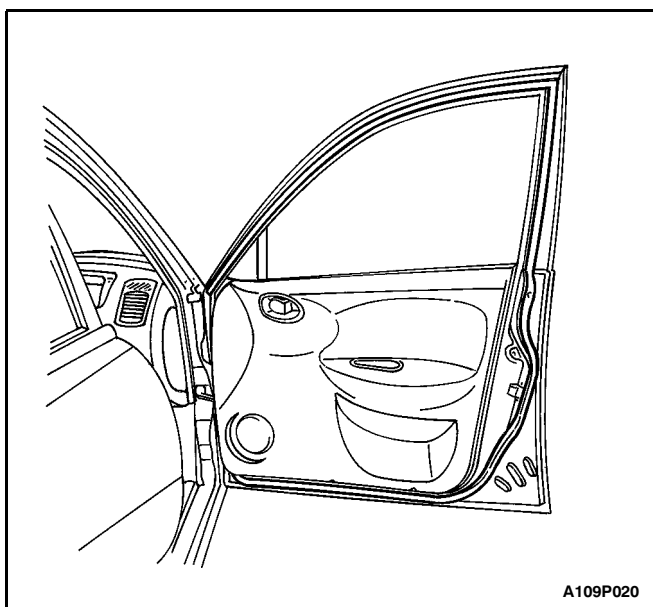
### Removal Procedure

1. Lower the window completely.
2. Lift the outside channel molding off the door.



### Installation Procedure

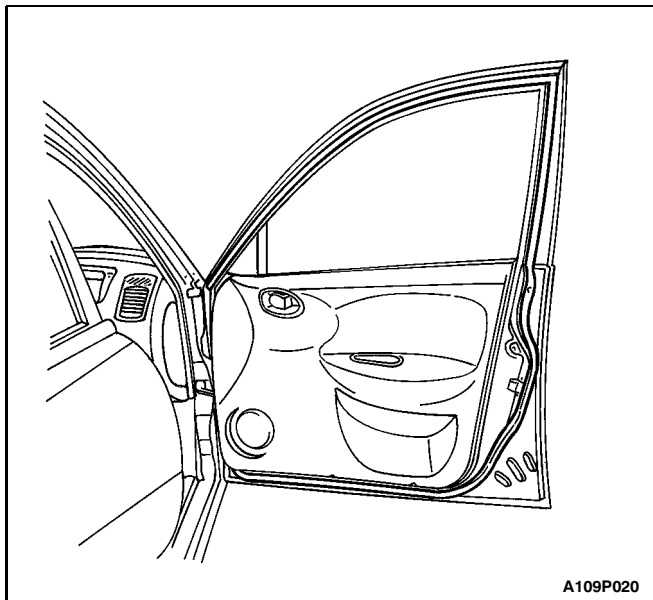
1. Press the outside channel molding onto the door.
2. Raise the window.



## DOOR WEATHERSTRIP

### Removal Procedure

1. Remove the door hold open link-to-body bolt.
2. Remove the door weatherstrip.



A109P020

## Installation Procedure

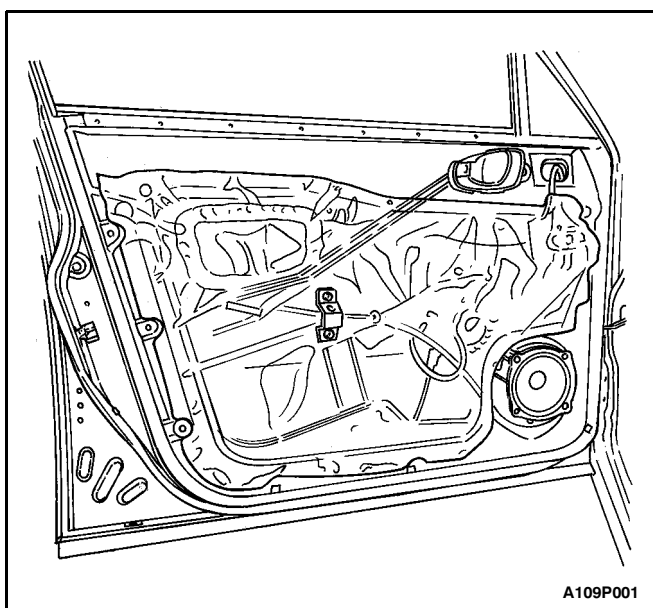
1. Install the door weatherstrip.

**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

2. Install the door hold open link to the body with the bolt.

### Tighten

Tighten the door hold open link-to-body bolt to 25 N•m (18 lb-ft).

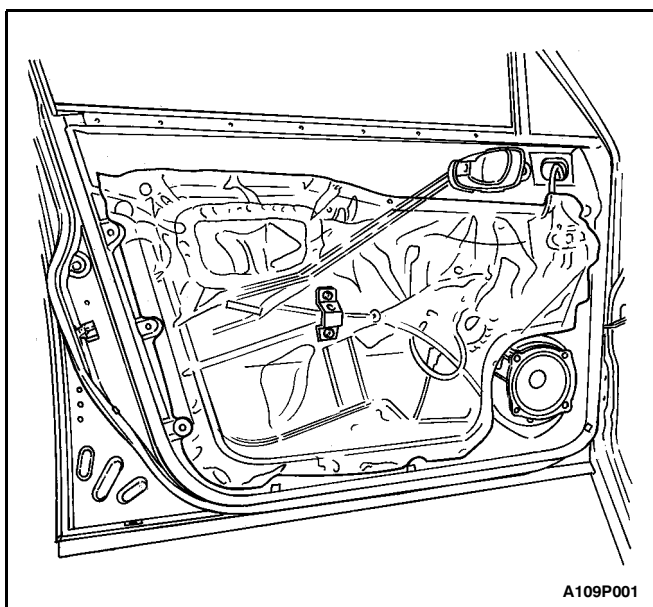


A109P001

## DOOR SEAL TRIM

### Removal Procedure

1. Remove the door trim panel. Refer to Section 9G, Interior Trim.
2. Remove the screws and the door pull bracket.
3. Remove the door seal trim.



A109P001

### Installation Procedure

1. Install the door seal trim.

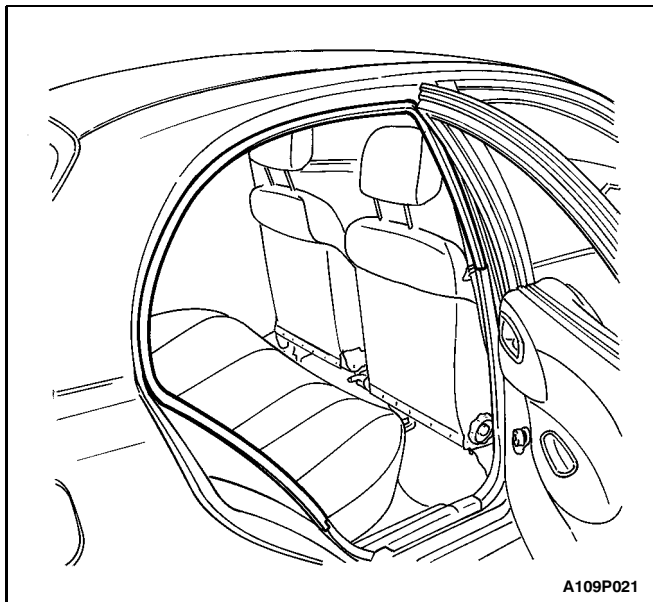
**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

2. Install the door pull bracket with the screws.

### Tighten

Tighten the door pull bracket screws to 3.5 N•m (31 lb-in).

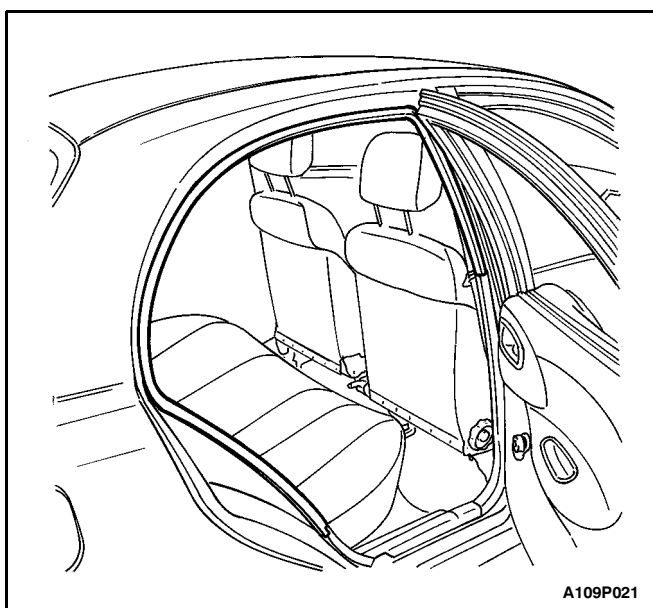
3. Install the door trim panel. Refer to Section 9G, Interior Trim.



## DOOR OPENING WEATHERSTRIP

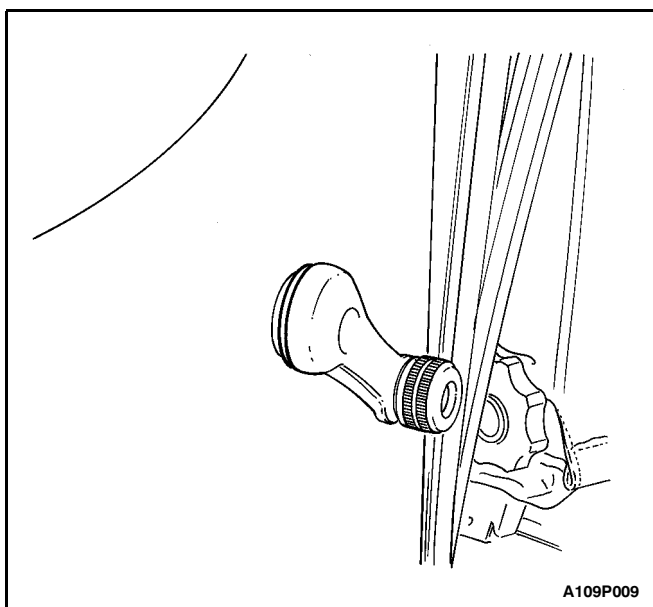
### Removal Procedure

1. Remove the door opening weatherstrip.



### Installation Procedure

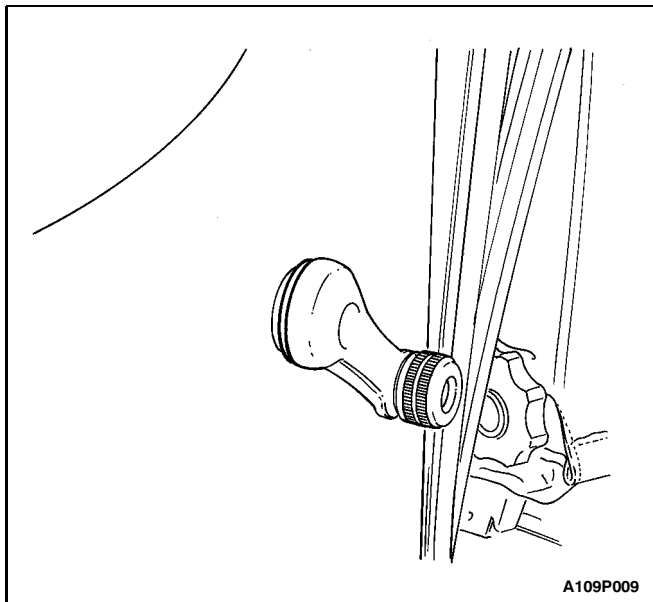
1. Install the door opening weatherstrip.



## MANUAL WINDOW REGULATOR HANDLE

### Removal Procedure

1. Push the plastic ring behind the window regulator handle toward the door to reveal the metal clip.
2. Pry off the metal clip.
3. Remove the window regulator handle and the plastic ring.



### Installation Procedure

1. Install the plastic ring.
2. Install the window regulator handle.
3. Insert the metal clip.

## **GENERAL DESCRIPTION AND SYSTEM OPERATION**

### **DOOR LOCK STRIKER**

The front and the rear door lock strikers each consist of a striker with two screws threaded into a floating cage plate in the B-pillars and C-pillars. The door is secured in the closed position when the door lock fork snaps over and engages the striker.

### **CHILDPROOF REAR DOOR LOCK**

The childproof rear door locks help prevent passengers, especially children, from opening the rear doors of the vehicle from the inside.

In order to activate these locks, move the levers of both rear doors to the lock position. Then, close both doors. Rear passengers will be unable to open the doors from inside of the vehicle.

In order to deactivate the childproof rear door lock, unlock the door from the inside of the vehicle and open the door from the outside. Move the lever to the unlock position. The rear door will now work normally.

### **POWER DOOR LOCKS**

The power door locks use a solenoid that is contained in each door lock assembly. The door locks are activated by the actuator on the inside door handle or by the lock cylinder on the driver door only. When the driver door is locked or unlocked by the actuator or lock cylinder, all doors are locked or unlocked accordingly.

### **POWER WINDOWS**

The power windows are controlled by electrical switches on the console and are operated by a motor at each window regulator. The windows are lowered by pressing the switch and raised by pulling up on the switch. The window will stop movement when the switch is released or when the window is completely open or closed.