

Fixed and Moveable Windows

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Description and Operation

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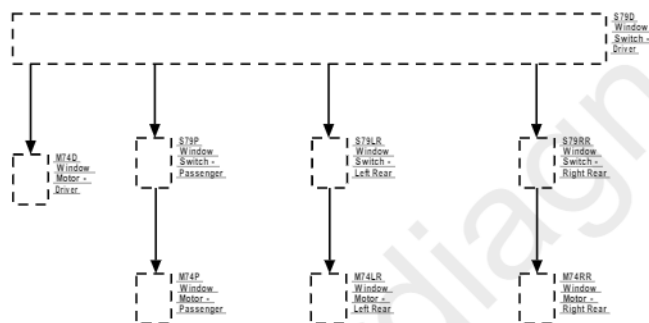
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Power Windows Description and Operation

Power Window System Components

The power window system consists of the following components:

- Driver window switch
- Front passenger window switch
- Left rear window switch
- Right rear window switch
- Window regulator motors in each of the doors
- 30 amp fuse
- 25 amp fuse



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Power Window System Controls

The power window system can be controlled by a power window up or down switch activation.

Window Operation and the Driver Window Switch

When the ignition switch is in the RUN or ACCY position, or Retained Accessory Power (RAP) is enabled, battery positive voltage is supplied to the driver window switch. Ground for the switch is provided by a ground circuit connected to a ground stake. When the driver window switch is pressed in the down position, the voltage is applied to the driver window motor down circuit and ground is applied to the driver window motor up circuit causing the window to open. When the driver window switch is pressed in the up position, the polarity is reversed, voltage and ground are applied to the opposite circuits and the window closes. In order to control the passenger windows from the driver door, the driver window switch assembly contains a separate window switch for each passenger door window. These window switches operate in the same way as the driver window switch, except that the applied voltage and ground must also pass through the local passenger, left rear or right rear window switch in order to command the respective window motor.

The driver window switch also provides power and ground for the local rear window switches. Battery positive voltage is supplied, through the power window master switch lockout signal circuit, to each local rear window switch. The local front passenger door window switch has a separate battery positive voltage circuit, however, this circuit is spliced into the driver window switch voltage supply circuit within the IP Fuse Block. Ground for all three of the passenger door switches, is also supplied by the driver window switch.

Lockout Switch Feature

The driver window switch contains a rear window lockout switch which disconnects the battery positive voltage supply to the remote rear passenger door window switches, disabling them. The local front passenger door window switch cannot be locked out.

Window Operation and the Passenger Window Switches

When the ignition switch is in the RUN or ACCY position, or Retained Accessory Power (RAP) is enabled, battery positive voltage is supplied to each of the remote passenger door window switches. When a local window switch is pressed in the down position, voltage is applied to the window motor down circuit and ground is applied to the window motor up circuit, causing the window to open. When the window switch is pressed in the up position, the polarity is reversed, voltage and ground are applied to the opposite circuits, and the window closes.

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Rear Window Defogger Description and Operation

The rear window defogger is controlled by the rear defogger relay through a high side drive control circuit. Battery voltage is supplied to the switch side of the relay at all times and when the relay is energized battery voltage is supplied to the rear window defogger control circuit. The rear defogger relay is controlled by the rear window defogger switch through a low side drive control circuit. Ignition voltage is supplied to the relay coil and when the rear defogger switch is pressed the relay control circuit is grounded and the relay will be energized.

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Stationary Window Description

Warning:

Refer to [Cracked Window Warning](#).

Stationary windows consist of all the windows on the vehicle which are immovable within its frame, such as the windshield, the rear window, and the inside rearview mirror.

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Diagnostic Information and Procedures

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Symptoms - Fixed and Moveable Windows

Note:

The following steps must be completed before using the symptom tables.

1. Perform the [Diagnostic System Check - Vehicle](#) before using the Symptom Tables in order to verify that all of the following are true:
2.
 - There are no DTCs set.
 - The control modules can communicate via the serial data link.
3. Review the system operation in order to familiarize yourself with the system functions. Refer to the following system descriptions:
4.
 - [Power Windows Description and Operation](#)
 - [Rear Window Defogger Description and Operation](#)

Visual/Physical Inspection

- Inspect for aftermarket devices which could affect the operation of the system
- Inspect the easily accessible or visible system components for obvious damage or conditions which could cause the symptom.

Intermittent

Faulty electrical connections or wiring may be the cause of intermittent conditions. Refer to [Testing for Intermittent Conditions and Poor Connections](#).

Symptom List

Refer to a symptom diagnostic procedure from the following list in order to diagnose the symptom:

- [Rear Window Defogger Malfunction](#)
- [Power Windows Malfunction](#)

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Rear Window Defogger Malfunction

Diagnostic Instructions

- Perform the [Diagnostic System Check - Vehicle](#) prior to using this diagnostic procedure.
- Review [Strategy Based Diagnosis](#) for an overview of the diagnostic approach.
- [Diagnostic Procedure Instructions](#) provides an overview of each diagnostic category.

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Relay Coil B+	1	1	â€”	â€”
Relay Switch B+	1	1	â€”	â€”
Relay Control	2	1	â€”	â€”
Defogger Control	1	1	2	â€”
Defogger Switch Ground	â€”	1	â€”	â€”
Defogger Grid Ground	â€”	1	â€”	â€”
1. Rear Window Defogger Inoperative				
2. Rear Window Defogger Always On				

Circuit/System Description

The rear window defogger is controlled by the rear defogger relay through a high side drive control circuit. Battery voltage is supplied to the switch side of the relay at all times and when the relay is energized battery voltage is supplied to the rear window defogger control circuit. The rear defogger relay is controlled by the rear window defogger switch through a low side drive control circuit. Ignition voltage is supplied to the relay coil and when the rear defogger switch is pressed the relay control circuit is grounded and the relay will be energized.

Reference Information

Schematic Reference

[Defogger Schematics](#)

Connector End View Reference

[Master Electrical Component List](#)

Description and Operation

[Rear Window Defogger Description and Operation](#)

Electrical Information Reference

- [Circuit Testing](#)
- [Connector Repairs](#)
- [Testing for Intermittent Conditions and Poor Connections](#)
- [Wiring Repairs](#)

Circuit/System Testing

1. Ignition OFF, disconnect the rear defogger relay.
2. Ignition ON, verify that a test lamp does not illuminate between the rear window defogger control circuit terminalâ€”87 and ground.
- 3.

- If the test lamp illuminates, test the control circuit for a short to voltage.
4. Verify that a test lamp illuminates between the ignition circuit terminal 85 and ground.
 5.
 - If the test lamp does not illuminate, test the ignition circuit for a short to ground or an open/high resistance. If the circuit tests normal and the ignition circuit fuse is open, test or replace rear defogger relay.
 6. Verify that a test lamp illuminates between the B+ circuit terminal 30 and ground.
 7.
 - If the test lamp does not illuminate, test the B+ circuit for a short to ground or an open/high resistance. If the circuit tests normal and the B+ circuit fuse is open, test the rear window defogger control circuit terminal 87 for a short to ground.
 8. Disconnect the X2 harness connector at the rear window defogger grid.
 9. Test for less than 1 Ω between the defogger grid ground circuit terminal 1 and ground.
 10.
 - If greater than the specified range, test the ground circuit for an open/high resistance.
 11. Connect the X2 harness connector at the rear window defogger grid.
 12. Disconnect the X2 harness connector at the HVAC control switch assembly.
 13. Test for less than 1 Ω between the defogger switch ground circuit terminal 2 and ground.
 14.
 - If greater than the specified range, test the ground circuit for an open/high resistance.
 15. Connect the X2 harness connector at the HVAC control switch assembly.
 16. Connect a 20 A fused jumper wire between the B+ circuit terminal 30 and the rear window defogger control circuit terminal 87. Verify the rear window defogger is activated.
 17.
 - If the rear window defogger does not activate, test the control circuit for an open/high resistance. If the circuit tests normal, repair or replace the rear window defogger grid.
 18. Connect a test lamp between the ignition circuit terminal 85 and the relay control circuit terminal 86.
 19. Cycle the rear window defogger switch ON and OFF. The test lamp should turn ON and OFF when changing between the commanded states.
 20.
 - If the test lamp is always ON, test the control circuit for a short to ground. If the circuit tests normal, replace the rear window defogger switch.
 - If the test lamp is always OFF, test the control circuit for an open/high resistance. If the circuit tests normal, replace the rear window defogger switch.
 21. If all circuits test normal, test or replace the rear defogger relay.

Repair Instructions

Perform the [Diagnostic Repair Verification](#) after completing the diagnostic procedure.

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Power Windows Malfunction (Front Door)

Diagnostic Instructions

- Perform the [Diagnostic System Check - Vehicle](#) prior to using this diagnostic procedure.
- Review [Strategy Based Diagnosis](#) for an overview of the diagnostic approach.
- [Diagnostic Procedure Instructions](#) provides an overview of each diagnostic category.

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Driver Window Switch Ignition	1	1	â€”	â€”
Passenger Window Switch Ignition	2	2	â€”	â€”
Passenger Window Switch Signal	2	2	2	â€”
Driver Window Motor Control	1	1	1	â€”
Passenger Window Motor Control	2	2	2	â€”
Driver Window Switch Ground	â€”	1, 2	1, 2	â€”
1. Driver Window Malfunction				
2. Passenger Window Malfunction				

Circuit/System Description

The power window system will operate any time the ignition is the ACC or RUN position. The driver power window switch contains individual window switches for each of the power windows. All windows may be controlled up and down from the driver power window switch. The individual passenger power window switch will only control the up and down operation of their respective power window.

Each power window contains a reversible power window motor. The direction the window travels is dependent upon the polarity of the supply voltage. By reversing polarity of the supply voltage the window motor will move up or down. Each power window motor is internally circuit breaker protected.

Battery voltage is supplied to the power window switch through the accessory voltage supply circuit. The power window switch also receives a constant ground source. The power window motor control circuits are connected to ground through the normally closed up and down contacts of the power window switch. When the power switch is placed in the down position, the power window motor down control circuit is switched to 12 V and is applied to the down side of the power window motor. Since the other side of the power motor is connected to ground through the normally closed contacts of the up switch, the window travels down. By placing the power window switch in the up position, the polarity of the power window motor is reversed and the window travels up.

Reference Information

Schematic Reference

[Moveable Window Schematics](#)

Connector End View Reference

[Master Electrical Component List](#)

Description and Operation

[Power Windows Description and Operation](#)

Electrical Information Reference

- [Circuit Testing](#)
- [Connector Repairs](#)
- [Testing for Intermittent Conditions and Poor Connections](#)

- [Wiring Repairs](#)

Circuit/System Verification

1. Ignition ON, command the driver window UP and DOWN using the driver window switch. The driver window should perform the UP and DOWN functions.
2.
 - If the driver window is inoperative, refer to Driver Window Malfunction.
3. Command the passenger window UP and DOWN by using the RF window switch on the driver master control and the passenger window switch. The passenger window should perform the UP and DOWN functions from each switch.
4.
 - If the passenger window is inoperative from either switch, refer to Passenger Window Malfunction.

Circuit/System Testing

Driver Window Malfunction

1. Ignition OFF, disconnect the harness connector at the driver window switch.
2. Test for less than 1 Ω between the ground circuit terminal $\text{\textcircled{6}}$ and ground.
3.
 - If greater than the specified range, test the ground circuit for an open/high resistance.
4. Ignition ON, verify that a test lamp illuminates between the ignition circuit terminal $\text{\textcircled{3}}$ and ground.
5.
 - If the test lamp does not illuminate, test the ignition circuit for a short to ground or an open/high resistance.
6. Ignition OFF, connect the harness connector at the driver window switch and disconnect the harness connector at the driver window motor.
7. Test for less than 1 Ω between the control circuit terminal $\text{\textcircled{1}}$ and ground.
8.
 - If greater than the specified range, test the control circuit for a short to voltage or an open/high resistance. If circuits test normal, replace the driver window switch.
9. Test for less than 1 Ω between the control circuit terminal $\text{\textcircled{2}}$ and ground.
10.
 - If greater than the specified range, test the control circuit for a short to voltage or an open/high resistance. If circuits test normal, replace the driver window switch.
11. Connect a test lamp between control circuit terminal $\text{\textcircled{1}}$ and control circuit terminal $\text{\textcircled{2}}$.
12. Command the driver window UP and DOWN by using the driver window switch. The test lamp should illuminate when commanding the UP and DOWN states.
13.
 - If the test lamp remains OFF during either of the commands, test either control circuit for a short to ground. If the circuits test normal, replace the driver window switch.
14. If all circuits test normal, test or replace the driver window motor.

Front Passenger Window Malfunction

1. Ignition OFF, disconnect the harness connector at the passenger window switch.
2. Ignition ON, verify that a test lamp illuminates between the ignition circuit terminal $\text{\textcircled{3}}$ and ground.
- 3.

- If the test lamp does not illuminate, test the ignition circuit for an open/high resistance.
4. Ignition OFF, test for less than 1â€‰%l© between the signal circuit terminalâ€‰%1 and ground.
 5.
 - If greater than the specified range, test the signal circuit for a short to voltage or an open/high resistance. If the circuit tests normal, test or replace the driver window switch.
 6. Test for less than 1â€‰%l© between the signal circuit terminalâ€‰%5 and ground.
 7.
 - If greater than the specified range, test the signal circuit for a short to voltage or an open/high resistance. If the circuit tests normal, test or replace the driver window switch.
 8. Connect a test lamp between signal circuit terminalâ€‰%1 and signal circuit terminalâ€‰%5.
 9. Ignition ON, command the passenger door window UP and DOWN by operating the master driver window switch. The test lamp should illuminate when commanding the UP and DOWN states.
 10.
 - If the test lamp does not illuminate during either of the commands, test both signal circuits for a short to ground. If the circuits test normal, test or replace the driver window switch.
 11. Ignition OFF, connect the harness connector at the passenger window switch and disconnect the harness connector at the passenger window motor.
 12. Test for less than 1â€‰%l© between the control circuit terminalâ€‰%1 and ground.
 13.
 - If greater than the specified range, test the control circuit for a short to voltage or an open/high resistance. If the circuit tests normal, test or replace the passenger window switch.
 14. Test for less than 1â€‰%l© between the control circuit terminalâ€‰%2 and ground.
 15.
 - If greater than the specified range, test the control circuit for a short to voltage or an open/high resistance. If the circuit tests normal, test or replace the passenger window switch.
 16. Connect a test lamp between control circuit terminalâ€‰%1 and control circuit terminalâ€‰%2.
 17. Ignition ON, command the passenger door window UP and DOWN using the passenger window switch. The test lamp should illuminate when commanding the UP and DOWN states.
 18.
 - If the test lamp does not illuminate during either of the commands, test for a short to ground on either control circuit. If the circuits test normal, test or replace the front passenger window switch.
 19. If all circuits test normal, test or replace the passenger window motor

Repair Instructions

Perform the [Diagnostic Repair Verification](#) after completing the diagnostic procedure.

- [Front Side Door Window Regulator Replacement](#)
- [Rear Side Door Window Regulator Replacement](#)

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Power Windows Malfunction (Front and Rear Door)

Diagnostic Instructions

- Perform the [Diagnostic System Check - Vehicle](#) prior to using this diagnostic procedure.
- Review [Strategy Based Diagnosis](#) for an overview of the diagnostic approach.
- [Diagnostic Procedure Instructions](#) provides an overview of each diagnostic category.

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Driver Window Switch Ignition	1	1	â€”	â€”
Passenger Window Switch Ignition	2	2	â€”	â€”
Passenger Window Switch Signal	2	2	2	â€”
Left Rear Window Switch Signal	3	3	3	â€”
Right Rear Window Switch Signal	3	3	3	â€”
Driver Window Motor Control	1	1	1	â€”
Lockout Switch Control	2, 3	2, 3	2, 3	â€”
Passenger Window Motor Control	2	2	2	â€”
Rear Window Motor Control	3	3	3	â€”
Driver Window Switch Ground	â€”	1, 2, 3	1, 2, 3	â€”
1. Driver Window Malfunction				
2. Passenger Window Malfunction				
3. Rear Windows Malfunction				

Circuit/System Description

The power window system will operate any time the ignition is the ACC or RUN position. The driver power window switch contains individual window switches for each of power windows. All windows may be controlled up and down from the driver power window switch. The individual passenger power window switches will only control the up and down operation of their respective power window.

Each power window contains a reversible power window motor. The direction the window travels is dependent upon the polarity of the supply voltage. By reversing polarity of the supply voltage the window motor will move up or down. Each power window motor is internally circuit breaker protected.

Battery voltage is supplied to the power window switch through the accessory voltage supply circuit. The power window switch also receives a constant ground source. The power window motor control circuits are connected to ground through the normally closed up and down contacts of the power window switch. When the power switch is placed in the down position, the power window motor down control circuit is switched to 12â€”V and is applied to the down side of the power window motor. Since the other side of the power motor is connected to ground through the normally closed contacts of the up switch, the window travels down. By placing the power window switch in the up position, the polarity of the power window motor is reversed and the window travels up.

Reference Information

Schematic Reference

[Moveable Window Schematics](#)

Connector End View Reference

[Master Electrical Component List](#)

Description and Operation

[Power Windows Description and Operation](#)

- [Circuit Testing](#)
- [Connector Repairs](#)
- [Testing for Intermittent Conditions and Poor Connections](#)
- [Wiring Repairs](#)

Circuit/System Verification

1. Ignition ON, command the driver window UP and DOWN using the driver window switch. The driver window should perform the UP and DOWN functions.
2.
 - If the driver window does not perform the UP/DOWN function, refer to Driver Window Malfunction.
3. Command the passenger and rear windows UP and DOWN using the window switches on the driver master control and by using their respective door window switch. Each window should perform the UP and DOWN functions from each switch.
4.
 - If the front passenger window does not perform the UP/DOWN function, refer to Front Passenger Window Malfunction.
 - If either rear power windows do not perform the UP/DOWN function, refer to Rear Window Malfunction.
5. Disable and enable the rear window door switches by pressing and depressing the lockout switch on the driver master control. The rear door power window switches should be enabled and disabled when changing between the commanded states.
6.
 - If the rear window switches continue to function while disabled, refer to Lockout Switch Malfunction

Circuit/System Testing

Driver Window Malfunction

1. Ignition OFF, disconnect the harness connector at the driver window switch.
2. Test for less than 1 Ω between the ground circuit terminal⁸ and ground.
3.
 - If greater than the specified range, test the ground circuit for an open/high resistance.
4. Ignition ON, verify that a test lamp illuminates between the ignition circuit terminal¹³ and ground.
5.
 - If the test lamp does not illuminate, test the ignition circuit for a short to ground or an open/high resistance.
6. Ignition OFF, connect the harness connector at the driver window switch and disconnect the harness connector at the driver window motor.
7. Test for less than 1 Ω between the control circuit terminal¹ and ground.
8.
 - If greater than the specified range, test the control circuit for a short to voltage or an open/high resistance. If circuits test normal, replace the driver window switch.
9. Test for less than 1 Ω between the control circuit terminal² and ground.
10.
 - If greater than the specified range, test the control circuit for a short to voltage or an open/high resistance. If circuits test normal, replace the driver window switch.
11. Connect a test lamp between control circuit terminal¹ and control circuit terminal².

12. Command the driver window UP and DOWN by using the driver window switch. The test lamp should illuminate when commanding the UP and DOWN states.
13.
 - If the test lamp remains OFF during either of the commands, test either control circuit for a short to ground. If the circuits test normal, replace the driver window switch.
14. If all circuits test normal, test or replace the driver window motor.

Front Passenger Window Malfunction

1. Ignition OFF, disconnect the harness connector at the passenger window switch.
2. Ignition ON, verify that a test lamp illuminates between the ignition circuit terminalâ€™3 and ground.
3.
 - If the test lamp does not illuminate, test the ignition circuit for an open/high resistance.
4. Ignition OFF, test for less than 1â€™© between the signal circuit terminalâ€™1 and ground.
5.
 - If greater than the specified range, test the signal circuit for a short to voltage or an open/high resistance. If the circuit tests normal, test or replace the driver window switch.
6. Test for less than 1â€™© between the signal circuit terminalâ€™5 and ground.
7.
 - If greater than the specified range, test the signal circuit for a short to voltage or an open/high resistance. If the circuit tests normal, test or replace the driver window switch.
8. Connect a test lamp between signal circuit terminalâ€™1 and signal circuit terminalâ€™5.
9. Ignition ON, command the passenger door window UP and DOWN by operating the RF window switch on the driver master control. The test lamp should illuminate when commanding the UP and DOWN states.
10.
 - If the test lamp does not illuminate during either of the commands, test both signal circuits for a short to ground. If the circuits test normal, test or replace the driver window switch.
11. Ignition OFF, connect the harness connector at the passenger window switch and disconnect the harness connector at the passenger window motor.
12. Test for less than 1â€™© between the control circuit terminalâ€™1 and ground.
13.
 - If greater than the specified range, test the control circuit for a short to voltage or an open/high resistance. If the circuit tests normal, test or replace the passenger window switch.
14. Test for less than 1â€™© between the control circuit terminalâ€™2 and ground.
15.
 - If greater than the specified range, test the control circuit for a short to voltage or an open/high resistance. If the circuit tests normal, test or replace the passenger window switch.
16. Connect a test lamp between control circuit terminalâ€™1 and control circuit terminalâ€™2.
17. Ignition ON, command the passenger door window UP and DOWN using the passenger window switch. The test lamp should illuminate when commanding the UP and DOWN states.
18.
 - If the test lamp does not illuminate during either of the commands, test for a short to ground on either control circuit. If the circuits test normal, test or replace the front passenger window switch.

19. If all circuits test normal, test or replace the passenger window motor

Rear Window Malfunction

1. Ignition OFF, disconnect the harness connector at the appropriate rear window switch.

2. Note:

Verify the passenger and rear windows switches are enabled by checking the lockout switch in the driver window switch.

3. Ignition ON, verify that a test lamp illuminates between the control circuit terminalâ€%3 and ground.

4.

- If the test lamp does not illuminate, test the control circuit for an open/high resistance.

5. Ignition OFF, test for less than 1â€%1© between the signal circuit terminalâ€%1 and ground.

6.

- If greater than the specified range, test the signal circuit for a short to voltage or an open/high resistance. If circuits test normal, replace the driver window switch.

7. Test for less than 1â€%1© between the signal circuit terminalâ€%5 and ground.

8.

- If greater than the specified range, test the signal circuit for a short to voltage or an open/high resistance. If circuits test normal, replace the driver window switch.

9. Connect a test lamp between the signal circuit terminalâ€%1 and signal circuit terminalâ€%5.

10. Ignition ON, command the appropriate rear window UP and DOWN by using the appropriate window switch on the driver master control. The test lamp should illuminate during the UP and DOWN commands.

11.

- If the test lamp does not illuminate during the UP or DOWN command, test either control circuit for a short to ground. If the circuits test normal, test or replace the driver window switch.

12. Ignition OFF, connect the window switch. Disconnect the harness connector at the appropriate rear window motor.

13. Test for less than 1â€%1© between the control circuit terminalâ€%1 and ground.

14.

- If greater than the specified range, test the control circuit for a short to voltage or an open/high resistance. If circuits test normal, replace the rear window switch.

15. Test for less than 1â€%1© between the control circuit terminalâ€%2 and ground.

16.

- If greater than the specified range, test the control circuit for a short to voltage or an open/high resistance. If circuits test normal, replace the rear window switch.

17. Connect a test lamp between control circuit terminalâ€%1 and control circuit terminalâ€%2.

18. Ignition ON, command the window UP and DOWN by using the window switch. The test lamp should illuminate when commanding the UP and DOWN states.

19.

- If the test lamp does not illuminate during the UP or DOWN command, test either control circuit for a short to ground. If the circuits test normal, test or replace the rear window switch.

20. If all circuits test normal, test or replace the rear window motor.

Lockout Switch Malfunction

1. Ignition OFF, disconnect the harness connector at the appropriate rear window switch.

2. Connect a test lamp between the control circuit terminalâ€”3 and ground.
3. Command the window lockout ON and OFF by pressing and depressing the lockout switch on the driver master control. The test lamp should turn ON and OFF when changing between the commanded states.
4.
 - If the test lamp is always ON, test the control circuit for a short to voltage. If the circuit tests normal, test or replace the driver window switch.
 - If the test lamp is always OFF, test the control circuit for a short to ground or an open/high resistance. If the circuit tests normal, test or replace the driver window switch.
5. If all circuits test normal, test or replace the rear window switch.

Repair Instructions

Perform the [Diagnostic Repair Verification](#) after completing the diagnostic procedure.

- [Front Side Door Window Regulator Replacement](#)
- [Rear Side Door Window Regulator Replacement](#)

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Repair Instructions

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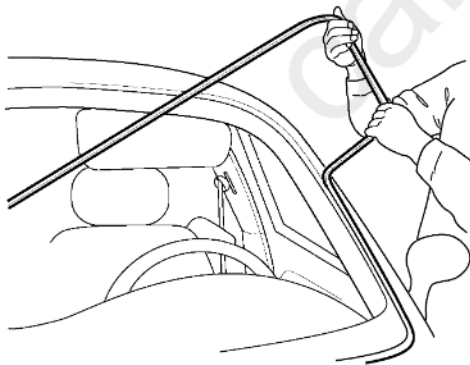
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Windshield Replacement

Special Tools

J-24402 Glass Sealant Remover

Removal Procedure



1. [Click here for full size](#)

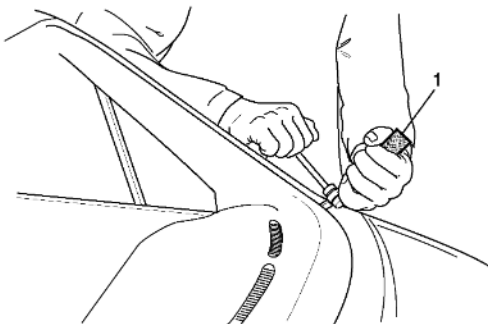
2. Warning:

Refer to [Defroster Outlet Warning](#).

3. Remove the air inlet grille. Refer to [Air Inlet Grille Panel Replacement](#).

4. Remove the inside rearview mirror. Refer to [Inside Rearview Mirror Replacement](#).

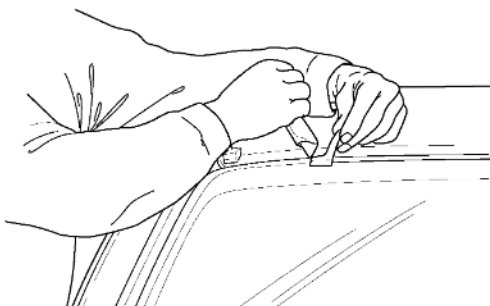
5. Remove the weatherstrip around the windshield.



6.

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7. Using the *J-24402* glass sealant remover (1), cut the adhesive around the windshield.





8.

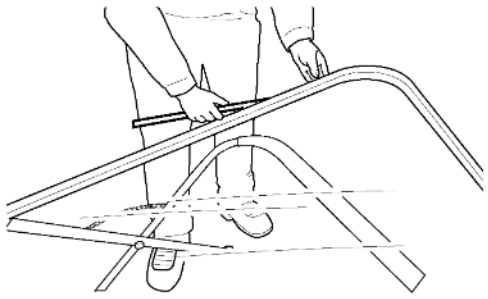
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9. Remove the windshield from the vehicle.

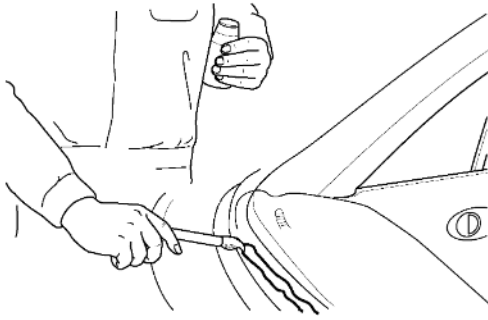
10. Using a knife, remove the adhesive from the windshield.

Installation Procedure





1. [Click here for full size](#)
2. Install the new weatherstrip to the windshield.



3. [Click here for full size](#)
4. Apply tape to the new weatherstrip and the windshield to hold the weatherstrip in place.
5. Apply adhesive primer to the windshield frame and the perimeter of the windshield.



6.

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7. Warning:

Insufficient curing of urethane adhesive may allow unrestrained occupants to be ejected from the vehicle resulting in personal injury.

- For the moisture-curing type of urethane adhesive, allow a minimum of 6 hours at 21°C (70°F) or greater and with at least 30 percent relative humidity. Allow at least 24 hours for the complete curing of the urethane adhesive.
- For the chemical-curing type of urethane adhesive, allow a minimum of 1 hour.

Do NOT physically disturb the repair area until after these minimum times have elapsed.

8. Apply glass adhesive to the windshield frame.



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9.

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10. Install the windshield into the windshield frame.

11. Reposition the tape over the weatherstrip, the windshield and the windshield frame to hold the windshield in place.

12. Let the adhesive dry for 24 hours.
13. Remove the tape.



14. [Click here for full size](#)
15. Inspect for water leaks by pouring water on the windshield. If a leak is found, dry the windshield and fill the area that leaks with adhesive. If the leak persists, remove the windshield and repeat the entire procedure.
16. Install the inside rearview mirror. Refer to [Inside Rearview Mirror Replacement](#).
17. Install the air inlet grille. Refer to [Air Inlet Grille Panel Replacement](#).

Related Part Information

Part Name	Catalog Name	Part Code
Windshield	WINDSHIELD,	0050A
Windshield	WINDSHIELD,	0050B
Windshield	WINDSHIELD,(W/ RVL MLDG)	2799A
Windshield	WINDSHIELD KIT,	2799Z
Windshield	WINDSHIELD,	2800A
Windshield	WINDSHIELD,	2800B
Windshield	WINDSHIELD,	SS135

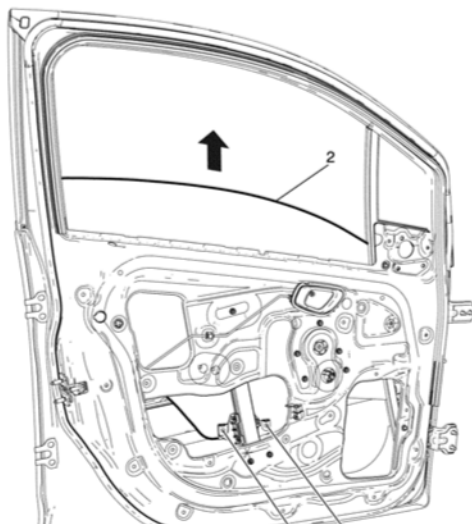
1. BODY SYSTEMS

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Front Side Door Window Replacement





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Callout	Component Name
	Preliminary Procedure 1. Position the window approximately half way down in the door. 2. Remove the front side door trim panel. Refer to Front Side Door Trim Panel Replacement. 3. Remove the water deflector.
1	Front Side Door Window Regulator Sash Screw (Qty=2) Caution: Refer to Fastener Caution. Tighten 2â€%N-m (18â€%lbâ€%in)

Callout	Component Name
2	Front Side Door Window Procedure 1. Remove the window regulator sash screws, and then move the window to full down position using the window switch and regulator. 2. Rotate the front door window as necessary to remove it from the door.

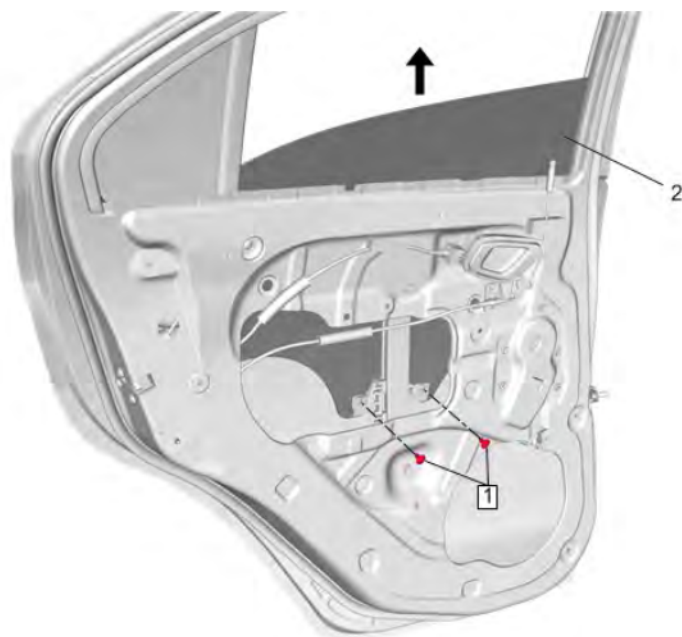
Related Part Information

Part Name	Catalog Name	Part Code
Front Side Door Window	WINDOW,FRT S/D (TMPRY)	2420B
Front Side Door Window	WINDOW PKG,FRT S/D	0745A
Front Side Door Window	WINDOW,FRT S/D	0749A
Front Side Door Window	WINDOW,FRT S/D	0750A
Front Side Door Window	WINDOW PKG,FRT S/D	0999A
Front Side Door Window	WINDOW,FRT S/D	1000A
Front Side Door Window	WINDOW,FRT S/D	1000B

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Rear Side Door Window Replacement (Notchback)



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Callout	Component Name
Warning : Glass and Sheet Metal Handling Warning Preliminary Procedures 1. Position the window approximately half way down in the door. 2. Rear Side Door Water Deflector Replacement 3. Rear Side Door Window Weatherstrip Replacement	
1	Rear Side Door Window Regulator Sash Screw Caution : Fastener Caution Tighten 2>N-m (18 lb in)
2	Rear Side Door Window Procedure 1. Rear Side Door Window @ Rear Side Door Window Regulator >> Remove 2. Rotate the rear side door window as necessary to remove it from the rear side door.

Related Part Information

Part Name	Catalog Name	Part Code
Rear Side Door Window WINDOW,RR S/D		2150A
Rear Side Door Window WINDOW,RR S/D		2200A

Part Name	Catalog Name	Part Code
Rear Side Door Window	WINDOW KIT,RR S/D	2849Z
Rear Side Door Window	WINDOW,RR S/D	2850A
Rear Side Door Window	WINDOW,RR S/D	2850B

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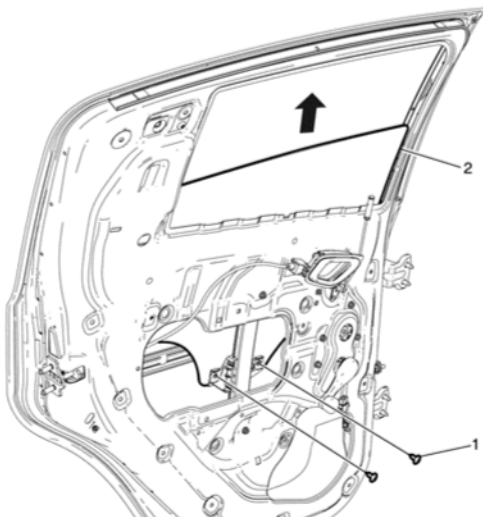
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Rear Side Door Window Replacement (Hatchback)





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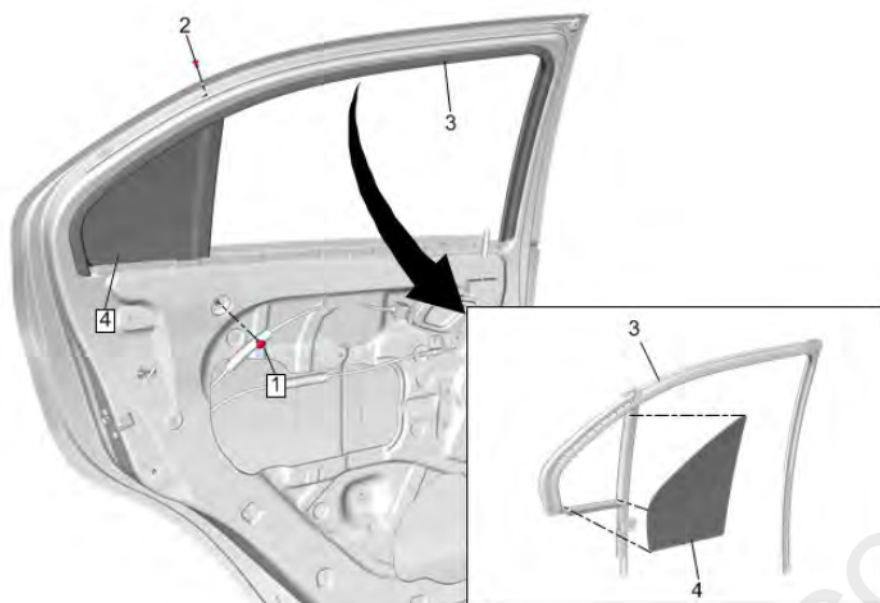
Callout	Component Name
	Preliminary Procedure 1. Position the window approximately half way down in the door. 2. Remove the rear side door trim panel. Refer to Rear Side Door Trim Panel Replacement. 3. Remove the rear side door window regulator. Refer to Rear Side Door Window Regulator Replacement. 4. Remove the outer sealing strip. Refer to Front Side Door Window Outer Sealing Strip Replacement.
1	Rear Side Door Window Regulator Sash Screw (Qty: 2) Caution: Refer to Fastener Caution. Tighten 2 N-m (18 lb-in)

Callout	Component Name
2	Rear Side Door Window Procedure 1. After removing the window regulator detach the window from the window frame and lower the window into the door panel. 2. Remove the rear side door window channel. Refer to Rear Side Door Window Channel Replacement. 3. Rotate the rear door window as necessary to remove it from the door.

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Rear Side Door Stationary Window Replacement (Notchback)



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Callout	Component Name
Preliminary Procedures 1. Rear Side Door Trim Panel Replacement 2. Rear Side Door Window Outer Sealing Strip Replacement	
1	Rear Side Door Window Weatherstrip Screw Caution : Fastener Caution Tighten 8>N-m (71 lb in)
2	Rear Side Door Window Weatherstrip Screw Tighten 1.3N-m (12 lb in)
3	Rear Side Door Window Weatherstrip
4	Rear Side Door Stationary Window Procedure 1. Remove the rear side door window weatherstrip and rear side door stationary window together with rear side door window channel from rear side door. 2. Rear Side Door Stationary Window @ Rear Side Door Window Weatherstrip >> Remove

Related Part Information

Part Name	Catalog Name	Part Code
Rear Side Door Stationary Window	WINDOW,RR S/D STA(W/RR S/D WDO W/STR)	2608A
Rear Side Door Stationary Window	WINDOW,RR S/D STA (W/EXTR TR)	2609A
Rear Side Door Stationary Window	WINDOW,RR S/D STA	2610A
Rear Side Door Stationary Window	WINDOW,RR S/D STA	2610B
Rear Side Door Stationary Window	WINDOW,RR S/D STA (W/RR S/D WDO W/STR)	3149A
Rear Side Door Stationary Window	WINDOW,RR S/D STA (W/ EXTR TR)	3149J
Rear Side Door Stationary Window	WINDOW KIT,RR S/D STA	3149Z
Rear Side Door Stationary Window	WINDOW,RR S/D STA	3150A
Rear Side Door Stationary Window	WINDOW,RR S/D STA	3150B

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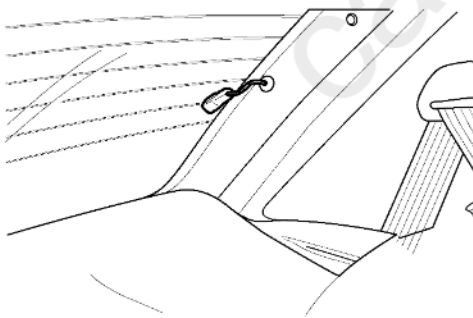
4.

Rear Window Replacement

Special Tools

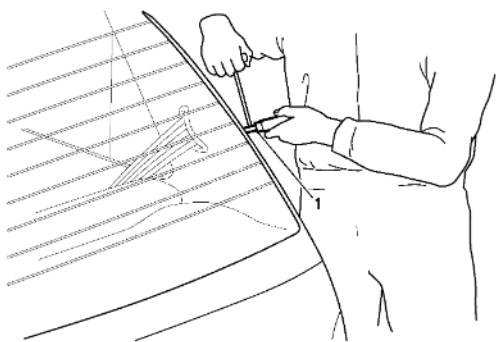
J-24402 Glass Sealant Remover

Removal Procedure



1. [Click here for full size](#)
2. Warning:

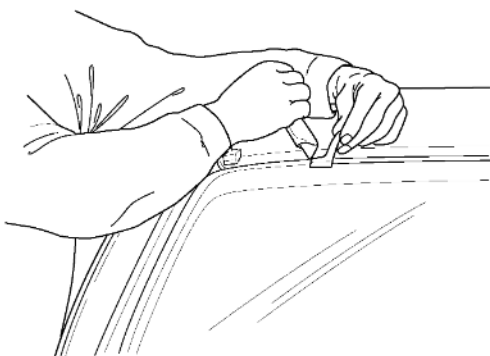
Refer to [Defroster Outlet Warning](#).
3. Disconnect the negative battery cable.
4. Disconnect the rear window defogger electrical connectors.



5.

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6. Using the *J-24402* glass sealant remover $\hat{\epsilon}\%$ (1), cut the adhesive around the rear window glass.



7.

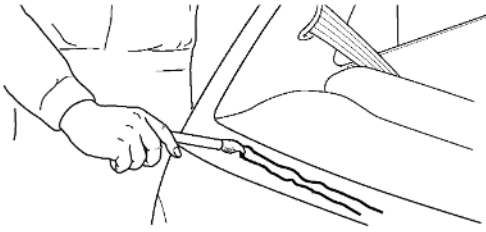
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8. Remove the rear window glass from the vehicle.

9. Using a knife, remove the adhesive from the rear window glass.

Installation Procedure





1. [Click here for full size](#)
2. Apply tape to the new weatherstrip and the rear window to hold the weatherstrip in place.
3. Apply adhesive primer to the rear window frame and the perimeter of the rear window.



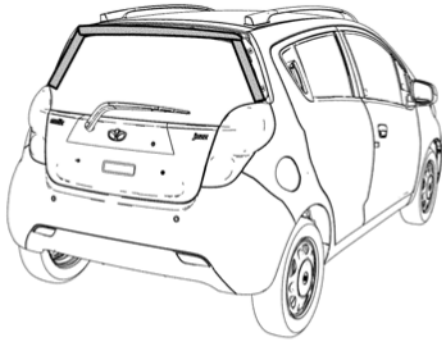
4. [Click here for full size](#)
5. Warning:

Insufficient curing of urethane adhesive may allow unrestrained occupants to be ejected from the vehicle resulting in personal injury.

- For the moisture-curing type of urethane adhesive, allow a minimum of 6â€%hours at 21Â°C (70Â°F) or greater and with at least 30 percent relative humidity. Allow at least 24â€%hours for the complete curing of the urethane adhesive.
- For the chemical-curing type of urethane adhesive, allow a minimum of 1â€%hour .

Do NOT physically disturb the repair area until after these minimum times have elapsed.

6. Apply glass adhesive to the rear window frame.



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7.

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8. Install the rear window into the rear window frame.
9. Reposition the tape over the weatherstrip, the rear window and the rear window frame to hold the rear window in place.
10. Let the adhesive dry for 24 hours.
11. Remove the tape.



13. Inspect for water leaks by pouring water on the rear window. If a leak is found, dry the window and fill the area that leaks with adhesive. If the leak persists, remove the rear window and repeat the entire procedure.
14. Connect the rear window defogger electrical connector.
15. Connect the negative battery cable.

Related Part Information

Part Name	Catalog Name	Part Code
Rear Window	WINDOW,RR	4225A
Rear Window	WINDOW,RR	4250A
Rear Window	WINDOW,RR (W/RVL MLDG)	4199A
Rear Window	WINDOW KIT,RR	4199Z
Rear Window	WINDOW,RR	4200A
Rear Window	WINDOW,RR	4200B
Rear Window	WINDOW,RR	SS131

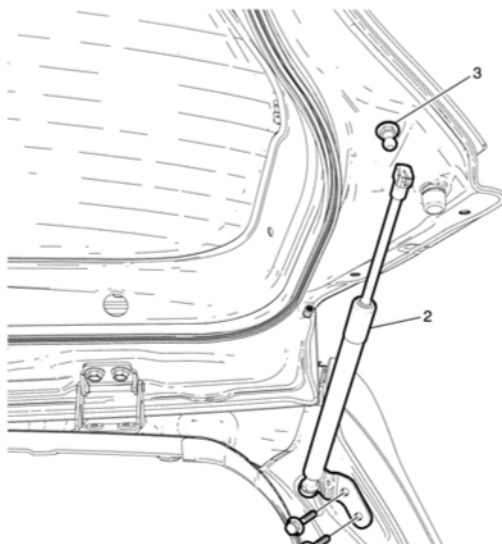
1. BODY SYSTEMS

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Liftgate Window Strut Replacement





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Callout	Component Name
Warning: When a lift gate hold open device is being removed or installed, provide alternate support to avoid the possibility of damage to the vehicle or personal injury.	
1	Liftgate Window Strut Bolt (Body) (Qty: 2) Caution: Refer to Fastener Caution . Tighten 25 N-m (18 lb-ft)
2	Liftgate Window Strut
3	Liftgate Window Strut Securing Bolt (Door) (Qty: 1) Tighten 22 N-m (16 lb-ft)

Related Part Information

Part Name	Catalog Name	Part Code
Liftgate Window Strut	STRUT,L/GATE WDO 5650A	
Liftgate Window Strut	STRUT,L/GATE WDO 1280A	

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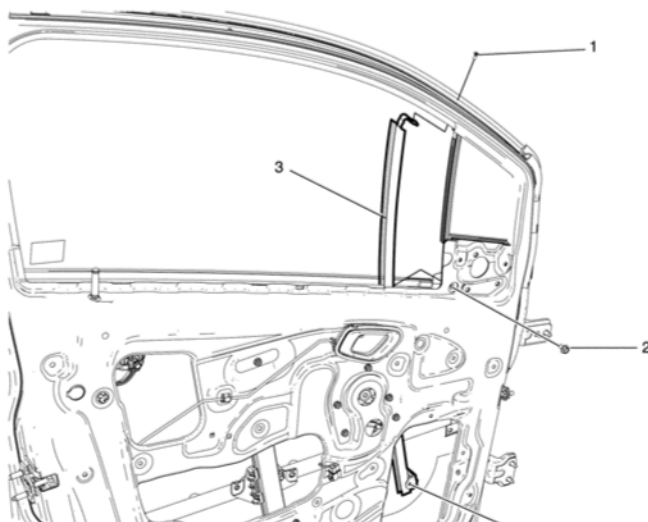
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Front Side Door Window Channel Replacement





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Callout	Component Name
Preliminary Procedure	
Remove the front side door window. Refer to Front Side Door Window Replacement .	
1	Front Side Door Window Channel Screw (Qty:1) Caution: Refer to Fastener Caution . Tighten 1.3N-m (12lb-in)
2	Front Side Door Window Channel Bolt (Qty:2) Tighten 8N-m (71lb-in)
3	Front Side Door Window Channel Assembly

Related Part Information

Part Name	Catalog Name	Part Code
Front Side Door Window Channel	CHANNEL,FRT S/D WDO 3750A	
Front Side Door Window Channel	CHANNEL,FRT S/D WDO 3750B	
Front Side Door Window Channel	CHANNEL,FRT S/D WDO 2250A	
Front Side Door Window Channel	CHANNEL,FRT S/D WDO 2250B	

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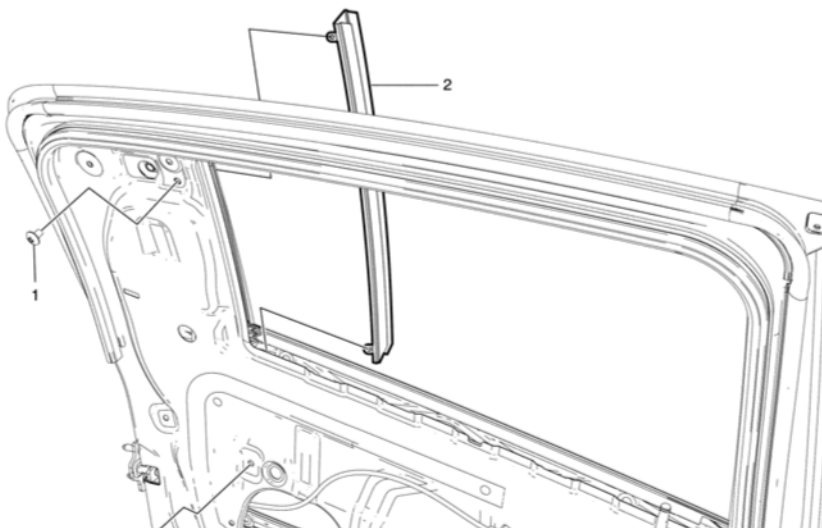
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Rear Side Door Window Channel Replacement (Hatchback)





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Callout	Component Name
Preliminary Procedure 1. Detach the rear side door window from rear side door regulator and then put it down in side door panel. Refer to Rear Side Door Window Replacement. 2. Partially peel off the rear side door window weatherstrip from the door window opening. Refer to Rear Side Door Window Weatherstrip Replacement.	
1	Rear Side Door Window Channel Screw (Qty: 2) Caution: Refer to Fastener Caution. Tighten 8 N-m (71 lb-in)
2	Rear Side Door Window Channel Assembly

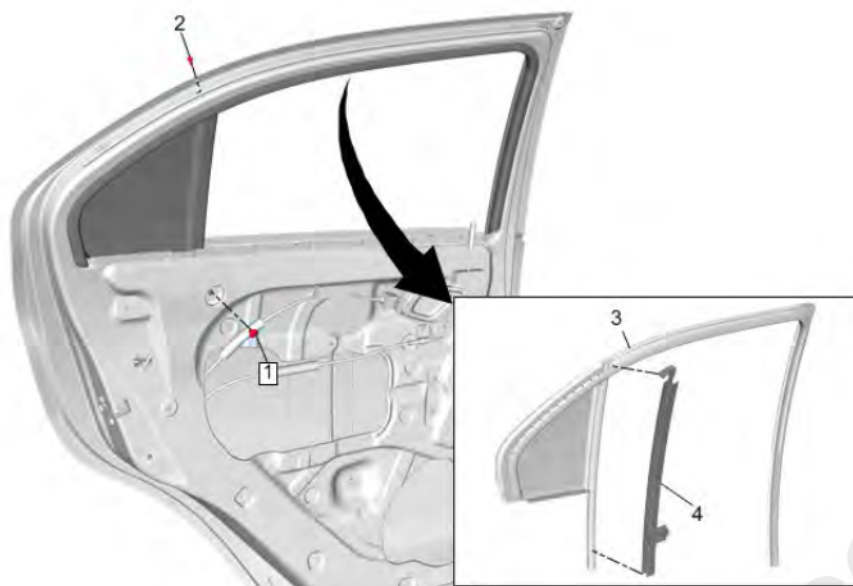
Related Part Information

Part Name	Catalog Name	Part Code
Rear Side Door Window Channel	CHANNEL,RR S/D WDO	5349A
Rear Side Door Window Channel	CHANNEL,RR S/D WDO	5350A
Rear Side Door Window Channel	CHANNEL,RR S/D WDO	7050A
Rear Side Door Window Channel	CHANNEL,RR S/D WDO	7050B

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Rear Side Door Window Channel Replacement (Notchback)

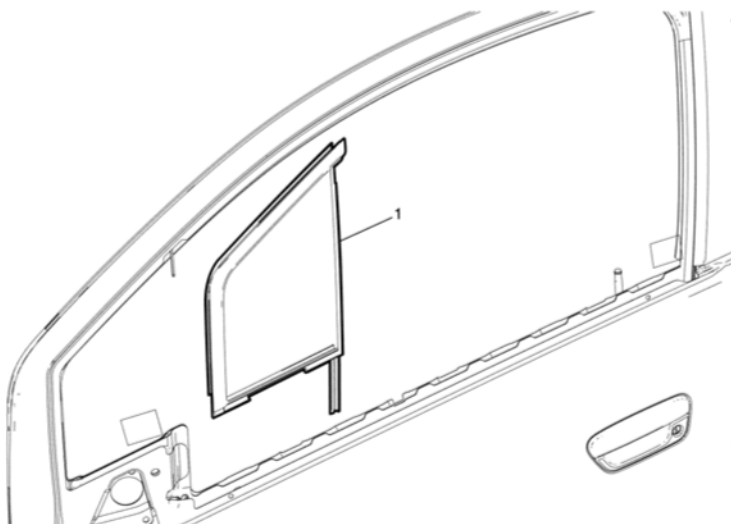


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Callout	Component Name
Preliminary Procedures 1. Rear Side Door Trim Panel Replacement 2. Rear Side Door Window Outer Sealing Strip Replacement	
1	Rear Side Door Window Weatherstrip Screw Caution : Fastener Caution Tighten 8>N-m (71 lb in)
2	Rear Side Door Window Weatherstrip Screw Tighten 1.3N-m (12 lb in)
3	Rear Side Door Window Weatherstrip
4	Rear Side Door Window Channel Procedure 1. Remove the rear side door window weatherstrip and rear side door stationary window together with rear side door window channel from rear side door. 2. Rear Side Door Window Channel @ Rear Side Door Window Weatherstrip >> Remove

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Front Side Door Stationary Window Replacement





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Callout	Component Name
Preliminary Procedure	
1. Remove the front side door window channel. Refer to Front Side Door Window Channel Replacement .	
2. Remove the outside rearview mirror. Refer to Outside Rearview Mirror Replacement .	
1	Front Side Door Stationary Window Assembly

Related Part Information

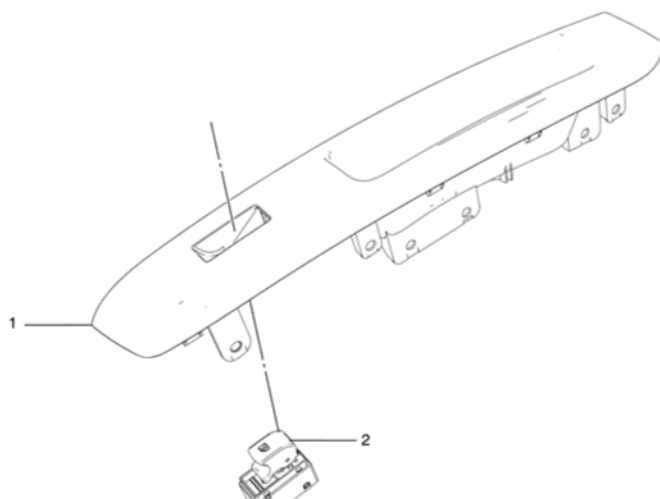
Part Name	Catalog Name	Part Code
Front Side Door Stationary Window	WINDOW,FRT S/D STA (W/ FRT S/D WDO W/STR)	1129A
Front Side Door Stationary Window	WINDOW,FRT S/D STA	1130A
Front Side Door Stationary Window	WINDOW,FRT S/D STA	1130B
Front Side Door Stationary Window	WINDOW KIT,FRT S/D STA(W/FRT S/D WDO W/STR)	1278Z
Front Side Door Stationary Window	WINDOW,FRT S/D STA (W/ FRT S/D WDO W/STR)	1279A
Front Side Door Stationary Window	WINDOW,FRT S/D STA	1280A

Part Name	Catalog Name	Part Code
Front Side Door Stationary Window	WINDOW,FRT S/D STA	1280B

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Front Side Door Window Switch Replacement - Right Side





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Callout	Component Name
1	Front Side Door Window Switch Bezel Refer to Front Side Door Window Switch Bezel Replacement .
2	Front Side Door Window Switch Assembly Procedure Disconnect electrical connector.

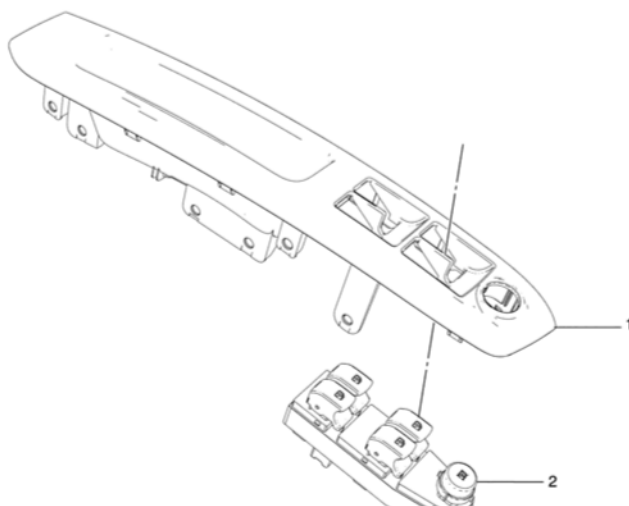
1. BODY SYSTEMS

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Front Side Door Window Switch Replacement - Left Side





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Callout	Component Name
1	Front Side Door Window Switch Bezel Refer to Front Side Door Window Switch Bezel Replacement .
2	Front and Rear Side Door Window Switch Assembly Procedure Disconnect electrical connector.

Related Part Information

Part Name	Catalog Name	Part Code
Front Side Door Window Switch	SWITCH,FRT S/D WDO	7075A

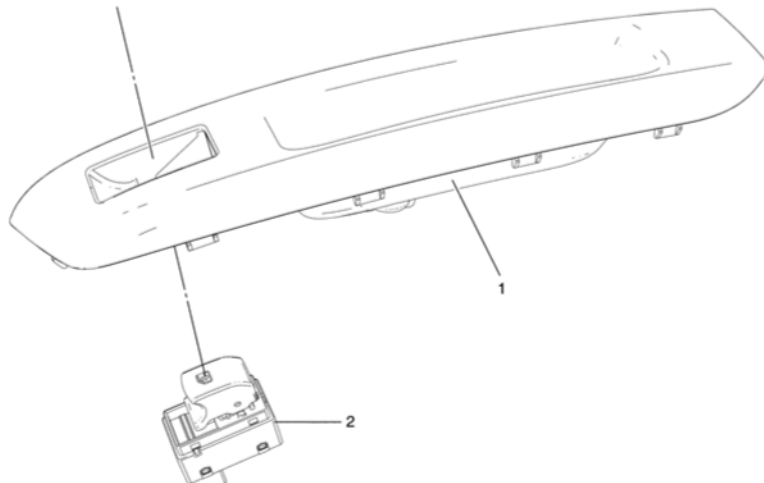
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Rear Side Door Window Switch Replacement



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Callout	Component Name
1	Rear Side Door Window Switch Bezel Refer to Front Side Door Trim Panel Replacement .
2	Rear Side Door Window Switch Assembly Procedure Disconnect electrical connector.

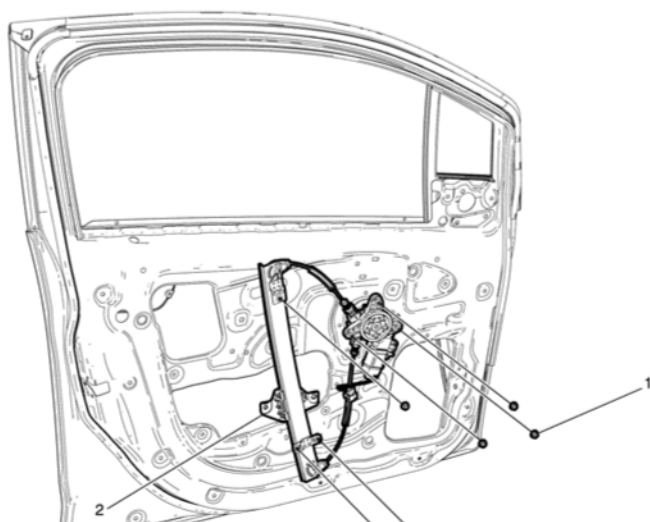
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Front Side Door Window Regulator Replacement





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Callout	Component Name
Preliminary Procedure	
1. Remove the front side door window regulator sash screw. Refer to Front Side Door Window Replacement .	
2. After detaching window from regulator manually move glass to full up position and securely type off to window frame.	
1	Front Side Door Window Regulator Nut (Qty: 6) Caution: Refer to Fastener Caution . Tighten 8 N-m (71 lb-in)
2	Front Side Door Window Regulator Assembly

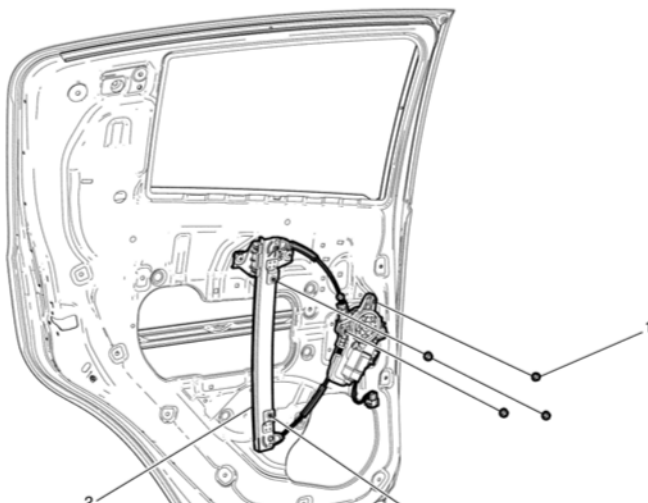
Related Part Information

Part Name	Catalog Name	Part Code
Front Side Door Window Regulator	REGULATOR KIT,FRT S/D WDO	2849Z
Front Side Door Window Regulator	REGULATOR,FRT S/D WDO	2850A
Front Side Door Window Regulator	REGULATOR KIT,FRT S/D WDO	2499A
Front Side Door Window Regulator	REGULATOR PKG,FRT S/D WDO	2499B
Front Side Door Window Regulator	REGULATOR,FRT S/D WDO	2500A
Front Side Door Window Regulator	REGULATOR,FRT S/D WDO (W/O MOT)	2502A

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Rear Side Door Window Regulator Replacement





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Callout	Component Name
Preliminary Procedure	
1. Remove the rear side door window regulator sash screws. Refer to Rear Side Door Window Replacement .	
2. After detaching window from regulator manually move glass to full up position and securely type off to window frame.	
1	Rear Side Door Window Regulator Nut (Qty: 5) Caution: Refer to Fastener Caution . Tighten 8 N-m (71 lb-in)
2	Rear Side Door Window Regulator Assembly

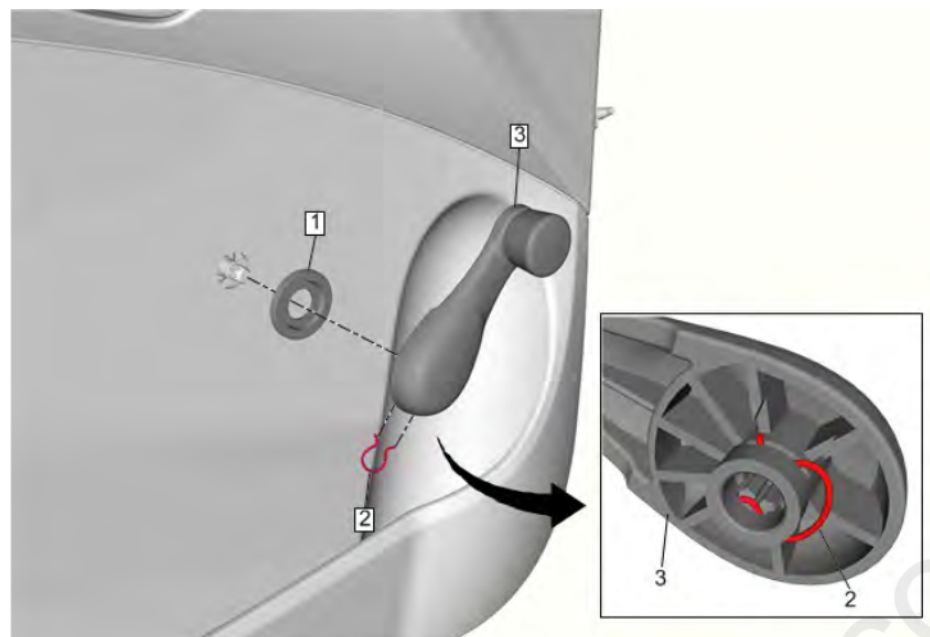
Related Part Information

Part Name	Catalog Name	Part Code
Rear Side Door Window Regulator	REGULATOR,RR S/D WDO	5125A
Rear Side Door Window Regulator	REGULATOR,RR S/D WDO	7174A
Rear Side Door Window Regulator	REGULATOR KIT,RR S/D WDO	7174Z
Rear Side Door Window Regulator	REGULATOR,RR S/D WDO	7175A
Rear Side Door Window Regulator	REGULATOR,RR S/D WDO (W/O MOT)	7179A

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Front Side Door Window Regulator Handle Replacement



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Callout	Component Name
1	Front Side Door Window Regulator Handle Spacer
2	Front Side Door Window Regulator Handle Clip
3	Front Side Door Window Regulator Handle

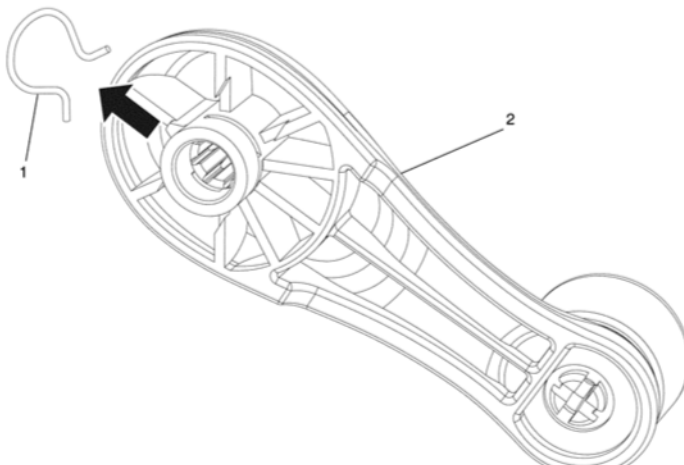
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Rear Side Door Window Regulator Handle Replacement





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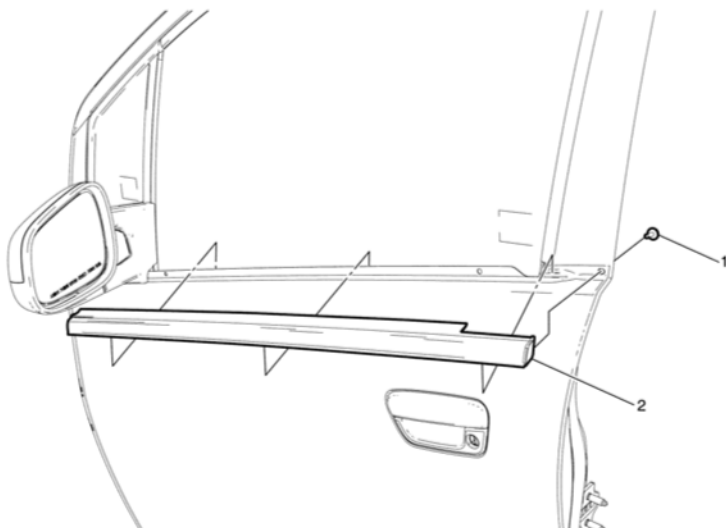
Callout	Component Name
1	Rear Side Door Crank Clamp
	Procedure
	Use a proper tool aid in the removal of the rear side door crank.
2	Rear Side Door Window Regulator Handle

Related Part Information

Part Name	Catalog Name	Part Code
Rear Side Door Window Regulator Handle	HANDLE,RR S/D WDO REG 5225A	
Rear Side Door Window Regulator Handle	HANDLE,RR S/D WDO REG 7245A	

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Front Side Door Window Outer Sealing Strip Replacement





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Callout	Component Name
1	Front Side Door Window Outer Sealing Strip Screw (Qty:1) Caution: Refer to Fastener Caution . Tighten 2N-m (18lb-in)
2	Front Side Door Window Outer Sealing Strip Assembly

Related Part Information

Part Name	Catalog Name	Part Code
Front Side Door Window Outer Sealing Strip	SEALING STRIP,FRT S/D WDO OTR	0845A
Front Side Door Window Outer Sealing Strip	SEALING STRIP,FRT S/D WDO OTR	0845B
Front Side Door Window Outer Sealing Strip	SEALING STRIP KIT,FRT S/D WDO OTR	0269Z
Front Side Door Window Outer Sealing Strip	SEALING STRIP,FRT S/D WDO OTR	0270A

Part Name**Catalog Name****Part Code**

Front Side Door Window Outer Sealing Strip SEALING STRIP,FRT S/D WDO OTR

0270B

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Rear Side Door Window Outer Sealing Strip Replacement (Hatchback)

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Callout	Component Name
1	Rear Side Door Window Outer Sealing Strip Screw Caution : Fastener Caution Tighten 1.5N-m (13 lb in) Note: Open the rear door to the full open position to expose the rear side door window outer sealing strip screw that is located on the front inner edge of the door.
2	Rear Side Door Window Outer Sealing Strip Procedure 1. Use a plastic trim tool, lift the front corner of the sealing strip and pull upward and away from the door flange. 2. Press firmly to insert the rear side door window sealing strip back on the door flange. 3. Inspect the door window for proper operation before installing the door trim panel.

Related Part Information

Part Name	Catalog Name	Part Code
Rear Side Door Window Outer Sealing Strip	SEALING STRIP,RR S/D WDO OTR 2520A	
Rear Side Door Window Outer Sealing Strip	SEALING STRIP,RR S/D WDO OTR 2520B	
Rear Side Door Window Outer Sealing Strip	SEALING STRIP,RR S/D WDO OTR 1165A	
Rear Side Door Window Outer Sealing Strip	SEALING STRIP,RR S/D WDO OTR 1165B	

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Rear Side Door Window Outer Sealing Strip Replacement (Notchback)



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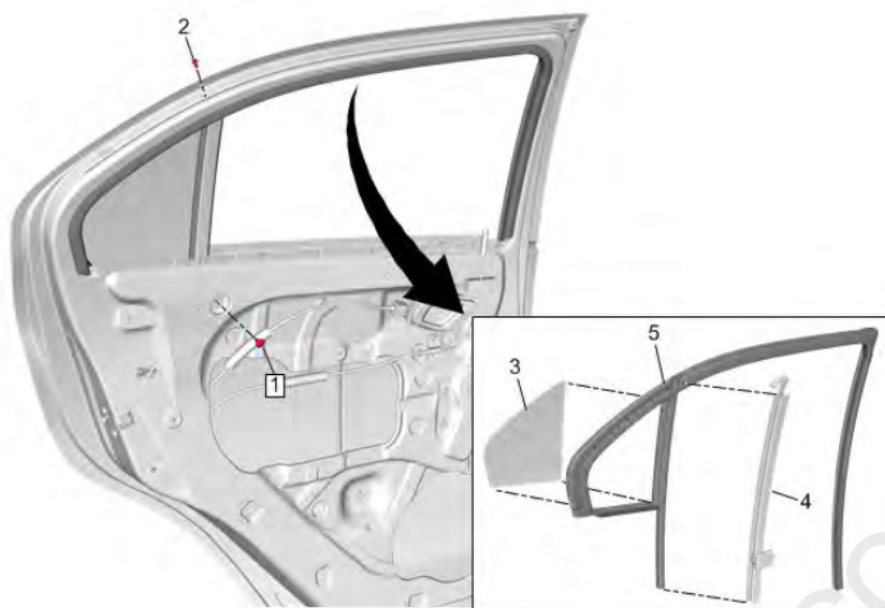
Callout	Component Name
1	Rear Side Door Window Outer Sealing Strip Screw Caution : Fastener Caution Tighten 1.5N-m (13 lb in) Note: Open the rear door to the full open position to expose the rear side door window outer sealing strip screw that is located on the front inner edge of the door.
2	Rear Side Door Window Outer Sealing Strip Procedure 1. Use a plastic trim tool, lift the front corner of the sealing strip and pull upward and away from the door flange. 2. Press firmly to insert the rear side door window sealing strip back on the door flange. 3. Inspect the door window for proper operation before installing the door trim panel.

Related Part Information

Part Name	Catalog Name	Part Code
Rear Side Door Window Outer Sealing Strip	SEALING STRIP,RR S/D WDO OTR 2520A	
Rear Side Door Window Outer Sealing Strip	SEALING STRIP,RR S/D WDO OTR 2520B	
Rear Side Door Window Outer Sealing Strip	SEALING STRIP,RR S/D WDO OTR 1165A	
Rear Side Door Window Outer Sealing Strip	SEALING STRIP,RR S/D WDO OTR 1165B	

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Rear Side Door Window Weatherstrip Replacement (Notchback)



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Callout	Component Name
Preliminary Procedures 1. Rear Side Door Trim Panel Replacement 2. Rear Side Door Window Outer Sealing Strip Replacement	
1	Rear Side Door Window Weatherstrip Screw Caution : Fastener Caution Tighten 8>N-m (71 lb in)
2	Rear Side Door Window Weatherstrip Screw Tighten 1.3N-m (12 lb in)
3	Rear Side Door Stationary Window Procedure 1. Remove the rear side door window weatherstrip and rear side door stationary window together with rear side door window channel. 2. Rear Side Door Stationary Window @ Rear Side Door Window Weatherstrip >> Remove

Callout	Component Name
4	Rear Side Door Window Channel
	Procedure
	Rear Side Door Window Channel @ Rear Side Door Window Weatherstrip >> Remove
5	Rear Side Door Window Weatherstrip

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Rear Side Door Window Weatherstrip Replacement (Hatchback)

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Callout	Component Name
	Preliminary Procedures 1. Remove the rear side door window regulator. Refer to Rear Side Door Window Regulator Replacement. 2. After removing the rear side door window regulator, gently lower the window into the door panel.
1	Rear Side Door Window Weatherstrip Procedure 1. Remove the weatherstrip from the front and rear lower window guides. 2. Grasp both upper corners, pull downward releasing the weatherstrip from the door frame. 3. Insert the weatherstrip downward in the window guides until fully seated. 4. Carefully move the regulator upward for short slow intervals, while ensuring that the window remains in the guides. 5. Inspect the door window for proper operation before installing the door trim panel.

Related Part Information

Part Name	Catalog Name	Part Code
Rear Side Door Window Weatherstrip	WEATHERSTRIP,RR S/D WDO	2250A
Rear Side Door Window Weatherstrip	WEATHERSTRIP,RR S/D WDO	2300A
Rear Side Door Window Weatherstrip	WEATHERSTRIP,RR S/D WDO	1200A
Rear Side Door Window Weatherstrip	WEATHERSTRIP,RR S/D WDO	1200B

Specifications

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Fastener Specifications

Reusable Threaded Fastener Tightening Specifications

Application	Specification
	Metric (English)
Note:	
All fasteners listed in this table can be reused after removal.	
Front Side Door Window Channel Bolt	8â€¢N-mâ€¢(71â€¢lbâ€¢in)
Front Side Door Window Channel Screw	1.3â€¢N-mâ€¢(12â€¢lbâ€¢in)
Front Side Door Window Outer Sealing Strip Screw	2â€¢N-mâ€¢(18â€¢lbâ€¢in)
Front Side Door Window Regulator Nut	8â€¢N-mâ€¢(71â€¢lbâ€¢in)
Front Side Door Window Regulator Sash Screw	2â€¢N-mâ€¢(18â€¢lbâ€¢in)
Liftgate Window Strut Bolt (Body)	25â€¢N-mâ€¢(18â€¢lbâ€¢ft)
Liftgate Window Strut Securing Bolt (Door)	22â€¢N-mâ€¢(16â€¢lbâ€¢ft)
Rear Side Door Window Channel Screw	8â€¢N-mâ€¢(71â€¢lbâ€¢in)
Rear Side Door Window Outer Sealing Strip Screw	1.5â€¢N-mâ€¢(13â€¢lbâ€¢in)
Rear Side Door Window Regulator Nut	8â€¢N-mâ€¢(71â€¢lbâ€¢in)
Rear Side Door Window Regulator Sash Screw	2â€¢N-mâ€¢(18â€¢lbâ€¢in)
Rear Side Door Window Weatherstrip Bolt	8â€¢N-mâ€¢(71â€¢lbâ€¢in)
Rear Side Door Window Weatherstrip Bolt	1.3â€¢N-mâ€¢(12â€¢lbâ€¢in)

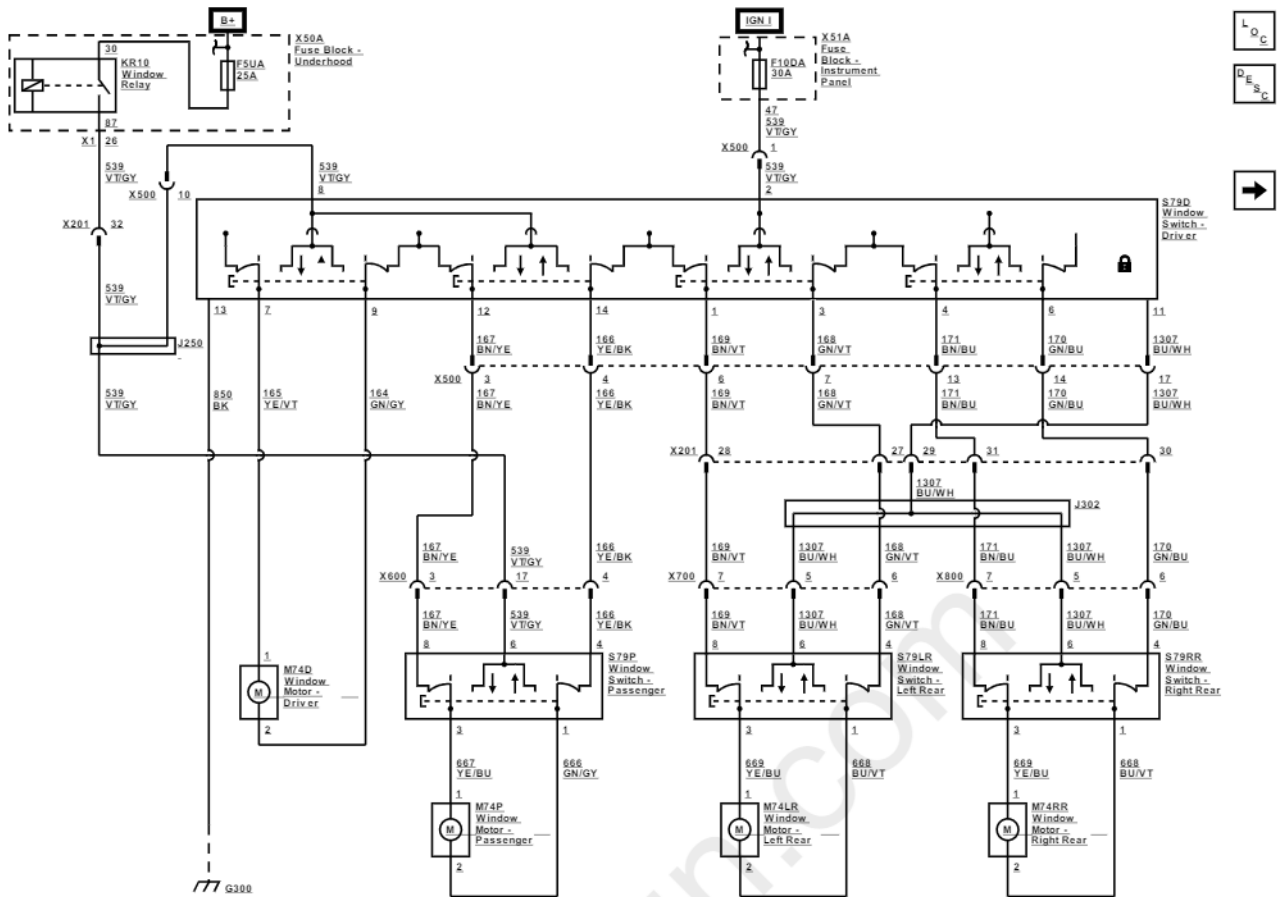
Schematic and Routing Diagrams

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Moveable Window Schematics

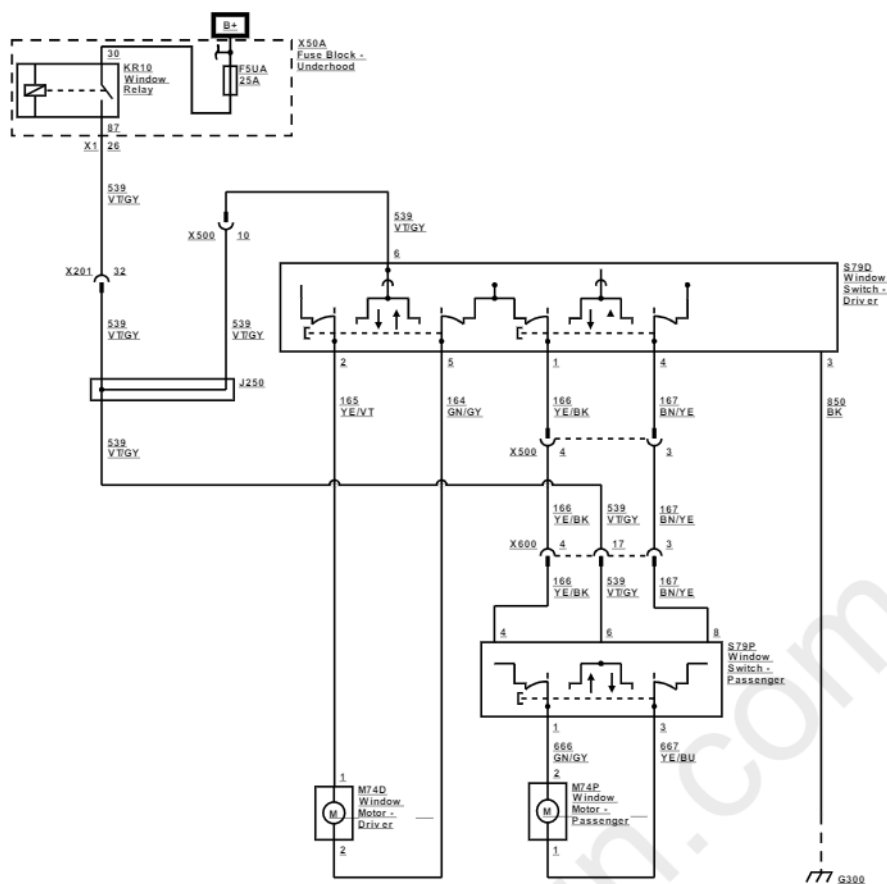
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Front and Rear



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Front



L O C

D E S C

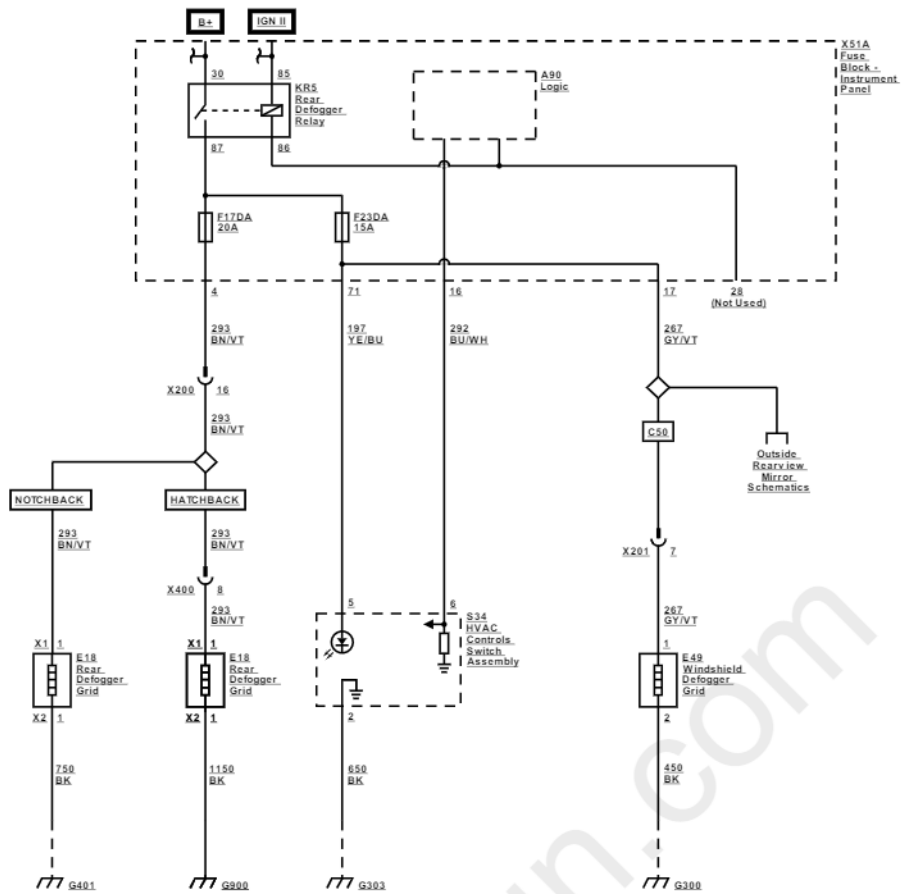


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Defogger Schematics

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Defogger



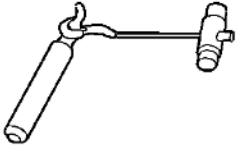
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Special Tools and Equipment

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1. BODY SYSTEMS
2. FIXED AND MOVEABLE WINDOWS
3. SPECIAL TOOLS AND EQUIPMENT
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Special Tools

Illustration	Tool Number/ Description
	J-24402 Glass Sealant Remover

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