

Wipers and Washers

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Description and Operation

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1. BODY SYSTEMS

2. WIPERS AND WASHERS

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Rear Wiper/Washer System Description and Operation

The rear window wiper motor is located inside the hatchback door and is directly connected to the rear window wiper. Ignition voltage is supplied to the rear wiper motor through the wiper switch. The hatchback rear window washer systems equipped with a separate washer fluid pump, hose, and nozzle. Ignition voltage is supplied to the washer pump through the wiper switch. Attached to the reservoir is a washer pump, which pumps fluid through a hose to the nozzle mounted on the hatch.

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Wiper/Washer System Description and Operation

Windshield Wiper System

The windshield wiper system consists of a wiper motor, a linkage, a wiper arm and a blade, and a wiperwasher switch. The windshield wiper circuit incorporates a self-parking device when the switch is turned OFF. The wiper system is driven by a permanent magnet-type motor. The windshield wiper motor is mounted on the dash panel and is directly connected to the windshield wiper linkage.

The windshield wiper motor has 2 speeds, LOW and HIGH, and also has intermittent wiper capability. The wiper switch is an integral part of the wiperwasher switch. Windshield wiper operation is actuated through the lever on the right side of the steering column.

Windshield Washer System

The windshield washer system is equipped with a washer fluid reservoir, a washer fluid pump, hoses, nozzles, and a wiperwasher switch. The windshield washer reservoir is mounted inside the front right wheel well splash shield. Attached to the reservoir is a washer pump, which pumps fluid through the hoses to the 2 nozzles mounted on the hood. The washer switch is an integral part of the wiperwasher switch. Windshield washer operation is actuated through the lever on the right side of the steering column.

Diagnostic Information and Procedures

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Symptoms - Wiper/Washer Systems

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.
4.
 - [Wiper/Washer System Description and Operation](#)
 - [Rear Wiper/Washer System Description and Operation](#)

Visual/Physical Inspection

- Inspect for aftermarket devices which could affect the operation of the Windshield Wiper/Washer System.
- Inspect the easily accessible or visible system components for obvious damage or conditions which could cause the symptom.
- Inspect the washer fluid reservoir for the proper fluid level.

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:

- [Windshield Wiper System Malfunction](#)
- [Washer Malfunction](#)
- [Rear Wiper System Malfunction](#)

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Windshield Wiper System 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
Wiper Switch Ignition Supply	1	1	â€”	â€”
Park Switch Supply	1	5	â€”	â€”
Park Control	1	5	2	â€”
Intermittent/Park Control	1	5	2	â€”
Wiper Motor High Speed	1	3	2	â€”
Wiper Motor Low Speed	1	4	2	â€”
Wiper Motor Ground	â€”	1	â€”	â€”
1. Wipers Inoperative All Modes 2. Wipers Always On 3. High Speed Wipers Inoperative 4. All Low Speed Modes Inoperative 5. Wipers Do Not Park				

Circuit/System Description

High speed wiper motor operation is controlled by supplying ignition voltage through the wiper switch to the high speed control circuit. In low speed ignition voltage is supplied through the low speed control circuit.

Intermittent, park, and washer wipers are all low speed wiper motor functions controlled through the wiper relay. During intermittent and wash operation the switch signals are inputs to the wiper relay. Whenever the relay is energized ignition voltage will be supplied from the relay through the windshield wiper switch to the wiper motor low speed circuit.

Reference Information

Schematic Reference

[Wiper/Washer Schematics](#)

Connector End View Reference

[Master Electrical Component List](#)

Description and Operation

[Wiper/Washer System 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, verify the windshield wipers operate in HIGH and LOW speeds.
2.
 - If the windshield wipers are inoperative in one or both speeds, refer to Wiper Malfunction.
3. Verify the intermittent windshield wipers operate.
4.
 - If the windshield wiper intermittent function is inoperative, refer to Intermittent Wipers Malfunction.
5. Verify the windshield wipers park.
6.
 - If the windshield wipers do not park, refer to Wipers Do Not Park.

Circuit/System Testing

Wiper Malfunction

1. Ignition OFF, disconnect the harness connector at the windshield wiper switch.
2. Ignition ON, verify that a test lamp illuminates between the ignition circuit terminal 3 and ground.
3.
 - If the test lamp does not illuminate, test the ignition circuit for a short to ground or an open/high resistance.
4. Ignition OFF, connect the harness connectors at the windshield wiper switch. Disconnect the harness connector at the windshield wiper motor.
5. Test for less than 1 Ω between the ground circuit terminal 6 (RHD 4) and ground.
6.
 - If greater than the specified range, test the ground circuit for an open/high resistance.
7. Ignition ON, place the wiper switch in the HIGH position, verify that a test lamp illuminates between the control circuit terminal 3 (RHD 1) and ground.
8.
 - If the test lamp does not illuminate, test the control circuit for an open/high resistance. If the circuit tests normal replace the wiper switch.
9. Place the wiper switch in the LOW position, verify that a test lamp illuminates between the control circuit terminal 2 (RHD 2) and ground.
10.
 - If the test lamp does not illuminate, test the control circuit for an open/high resistance. If the circuit tests normal replace the wiper switch.
11. If all circuits test normal replace the windshield wiper motor.

Intermittent Wipers Malfunction

1. Ignition OFF, disconnect the harness connector at the IP fuse block.
2. Place the wiper switch in the Intermittent position. Test for less than 1 Ω between the signal circuit terminal 49 and the ignition circuit terminal 36.
3.
 - If greater than the specified range, test the signal circuit for a short to ground or an open/high resistance. If the circuit tests normal, test or replace the windshield wiper switch.

4. Connect the harness connector at the IP fuse block and disconnect the harness connector at the windshield wiper motor.
5. Ignition ON, place the wiper switch in the Intermittent position. Verify that a test lamp illuminates between the control circuit terminalâ€‰2 and ground.
6.
 - If the test lamp does not illuminate, test the control circuit for a short to ground or an open/high resistance. If the circuit tests normal, check and replace the wiper switch and wiper relay
7. If all circuits test normal replace the IP fuse block.

Wipers Do Not Park

1. Ignition OFF, disconnect the harness connector at the windshield wiper motor.
2. Ignition ON, verify that a test lamp illuminates between the ignition circuit terminalâ€‰5 and ground.
3.
 - If the test lamp does not illuminate, test the ignition circuit for an open high resistance.
4. Test for less than 5â€‰Î© between the control circuit terminalâ€‰4 (RHDâ€‰6) and the control circuit terminalâ€‰2.
5.
 - If greater than the specified range, test both control circuits for a short to ground or an open/high resistance. If the circuits test normal, test or replace the wiper relay.
6. If all circuits test normal replace the windshield wiper motor.

Repair Instructions

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

- [Windshield Wiper and Windshield Washer Switch Replacement](#)
- [Windshield Wiper Motor Replacement](#)

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Washer 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
Wiper Switch Ignition	1	1	â€”	â€”
Washer Control	1	1	2	â€”
Washer Ground	â€”	1	â€”	â€”
1. Wiper Washer Inoperative				
2. Wiper Washer Always On				

Circuit/System Description

The wiper washer pump operation is controlled by supplying ignition voltage through the wiper switch to the wiper washer pump control circuits. Ignition voltage is supplied through the WIPER, REAR fuse.

Reference Information

Schematic Reference

[Wiper/Washer Schematics](#)

Connector End View Reference

[Master Electrical Component List](#)

Description and Operation

[Wiper/Washer System 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, verify that the front windshield wipers operate.
2.
 - If the front windshield wipers do not operate, refer to [Windshield Wiper System Malfunction](#).
3. Verify the rear window wiper operates.
4.
 - If the rear window wiper does not operate, refer to [Rear Wiper System Malfunction](#).

5. Verify the window wiper washer operates.

6.

- If the wiper washer does not operate, refer to [Washer Malfunction](#).

Circuit/System Testing

1. Ignition OFF, disconnect the harness connector at the windshield wiper/washer switch.

2. Ignition ON, verify that a test lamp illuminates between the ignition circuit terminal 3 and ground.

3.

- If the test lamp does not illuminate, test the ignition circuit for a short to ground or an open/high resistance.

4. Ignition OFF, connect the harness at the windshield wiper/washer switch. Disconnect the harness connector at the appropriate wiper washer pump.

5. Test for less than 1Ω between the ground circuit terminal 2 and ground.

6.

- If greater than the specified range, test the ground circuit for an open/high resistance.

7. Connect a test lamp between the control circuit terminal 1 and ground.

8. Observe the test light while applying the appropriate washer switch. The test lamp should turn ON and OFF when applying and releasing the switch.

9.

- If the test lamp is always ON, test the control circuit for a short to voltage. If the circuit tests normal, replace the wiper 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, replace the wiper switch.
- If all circuits test normal replace the appropriate wiper washer pump.

Repair Instructions

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

- [Windshield Wiper and Windshield Washer Switch Replacement](#)
- [Windshield Washer Pump Replacement](#)

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Rear Wiper System 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
Wiper Switch Ignition Supply	1	1	â€”	â€”
Rear Wiper Motor Control	1	3	2	â€”
Rear Wiper Motor Ground	â€”	1	â€”	â€”
1. Wiper Inoperative All Modes 2. Wiper Always On 3. Low Speed Modes Inoperative				

Circuit/System Description

The rear wiper motor operation is controlled by supplying ignition voltage through the wiper switch to the rear wiper motor control circuits. Ignition voltage is supplied through the WIPER, REAR fuse. The rear wiper motor uses the ignition voltage circuit to supply power to the motor after the switch is turned off to park the rear wiper.

Reference Information

Schematic Reference

[Wiper/Washer Schematics](#)

Connector End View Reference

[Master Electrical Component List](#)

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Electrical Information Reference

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

Circuit/System Verification

1. Ignition ON, Verify that the front windshield wipers operate.
2.
 - If the front windshield wipers do not operate, refer to [Windshield Wiper System Malfunction](#).
3. Verify the rear window wiper operates.
- 4.

- If the rear window wiper does not operate, refer to Rear Wiper Malfunction.
5. Verify the rear window wiper parks.
 6.
 - If the rear window wiper does not park, refer to Rear Wiper Malfunction.

Circuit/System Testing

Rear Wiper Malfunction

1. Ignition OFF, disconnect the harness connector at the windshield wiper/washer switch.
2. Ignition ON, verify that a test lamp illuminates between the ignition circuit terminal 3 and ground.
3.
 - If the test lamp does not illuminate, test the ignition circuit for a short to ground or an open/high resistance.
4. Ignition OFF, connect the harness at the windshield wiper/washer switch. Disconnect the harness connector at the rear window wiper motor.
5. Test for less than 1Ω between the ground circuit terminal 1 and ground.
6.
 - If greater than the specified range, test the ground circuit for an open/high resistance.
7. Ignition ON, verify that a test lamp illuminates between the ignition circuit terminal 3 and ground.
8.
 - If the test lamp does not illuminate, test the ignition circuit for a short to ground or an open/high resistance.
9. Place the rear wiper switch in the ON position, verify that a test lamp illuminates between the control circuit terminal 2 and ground.
10.
 - If the test lamp does not illuminate, test the control circuit for an open/high resistance. If the circuit tests normal replace the wiper switch.
11. If all circuits test normal replace the rear window wiper motor.

Repair Instructions

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

- [Windshield Wiper and Windshield Washer Switch Replacement](#)
- [Rear Window Wiper Motor Replacement](#)

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Rear Washer System 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
Wiper Switch Ignition	1	1	â€”	â€”
Rear Window Washer Pump Control	1	1	2	â€”
Rear Washer Ground	â€”	1	â€”	â€”
1. Wiper Washer Inoperative				
2. Rear Washer Always On				

Circuit/System Description

The rear washer pump operation is controlled by supplying ignition voltage through the wiper switch to the rear washer pump control circuits. Ignition voltage is supplied through the WIPER, REAR fuse.

Reference Information

Schematic Reference

[Wiper/Washer Schematics](#)

Connector End View Reference

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Electrical Information Reference

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

Circuit/System Verification

1. Ignition ON, verify that the front windshield wipers operate.
2.
 - If the front windshield wipers do not operate, refer to [Windshield Wiper System Malfunction](#).
3. Verify the rear window wiper operates.
4.
 - If the rear window wiper does not operate, refer to [Rear Wiper System Malfunction](#).

5. Verify the rear window wiper washer operates.
6.
 - If the rear wiper washer does not operate, refer to [Rear Washer System Malfunction](#).

Circuit/System Testing

1. Ignition OFF, disconnect the harness connector at the windshield wiper/washer switch.
2. Ignition ON, verify that a test lamp illuminates between the ignition circuit terminal 3 and ground.
3.
 - If the test lamp does not illuminate, test the ignition circuit for a short to ground or an open/high resistance.
4. Ignition OFF, connect the harness at the windshield wiper/washer switch. Disconnect the harness connector at the appropriate rear window washer pump.
5. Test for less than 1 Ω between the ground circuit terminal 1 and ground.
6.
 - If greater than the specified range, test the ground circuit for an open/high resistance.
7. Connect a test lamp between the control circuit terminal 2 and ground.
8. Observe the test light while applying the appropriate washer switch. The test lamp should turn ON and OFF when applying and releasing the switch.
9.
 - If the test lamp is always ON, test the control circuit for a short to voltage. If the circuit tests normal, replace the wiper 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, replace the wiper switch.
 - If all circuits test normal replace the appropriate rear washer pump.

Repair Instructions

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

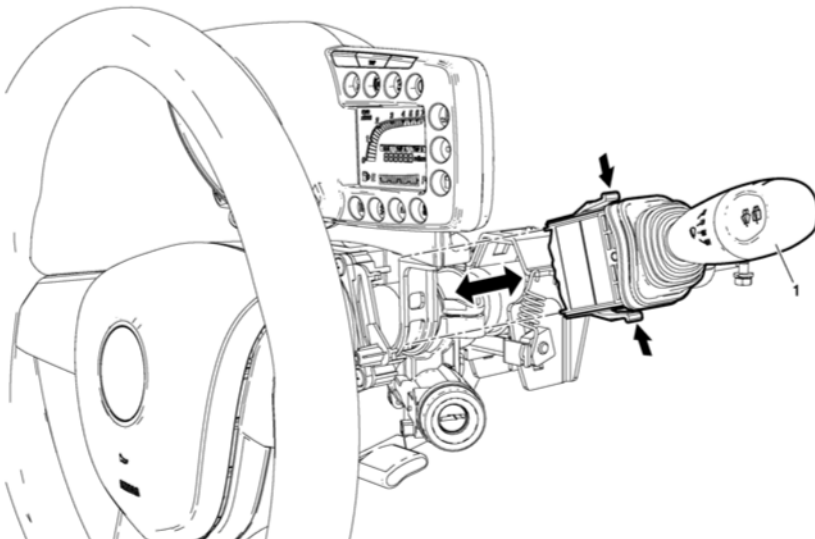
- [Windshield Wiper and Windshield Washer Switch Replacement](#)
- [Windshield Washer Pump Replacement](#)

Repair Instructions

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Windshield Wiper and Windshield Washer Switch Replacement





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Callout	Component Name
Preliminary Procedure	
Remove the steering column upper trim covers. Refer to Steering Column Upper Trim Cover Replacement .	
1	Windshield Wiper Washer Switch Tip Release the retaining tab and then remove the switch.

Related Part Information

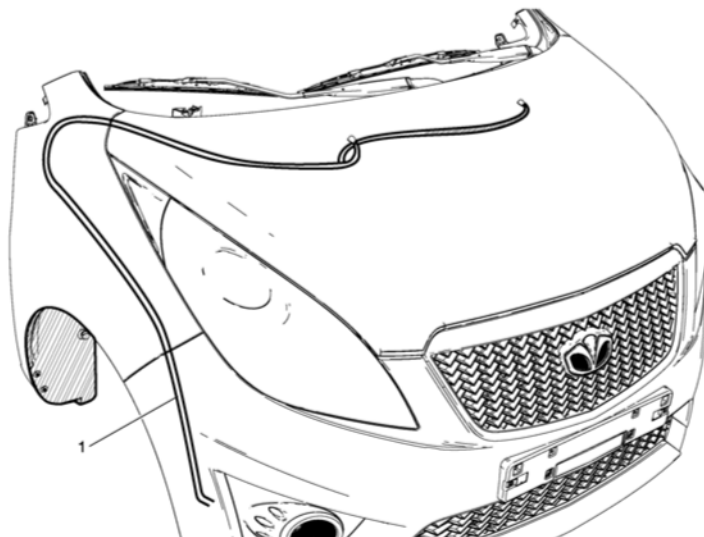
Part Name	Catalog Name	Part Code
Windshield Wiper and Windshield Washer Switch	SWITCH,WSW & WSWA	2100A
Windshield Wiper and Windshield Washer Switch	SWITCH,WSW & WSWA(W/CRCONT & O/S RV MIR R/CON)	2110A
Windshield Wiper and Windshield Washer Switch	SWITCH,WSW & WSWA (W/CRCONT)	2111A
Windshield Wiper and Windshield Washer Switch	SWITCH,WSW & WSWA (W/R/WDO WPR & WA & HDLP WA)	2112A
Windshield Wiper and Windshield Washer Switch	SWITCH,WSW & WSWA (W/R/WDO WPR & WA)	2114A

Part Name	Catalog Name	Part Code
Windshield Wiper and Windshield Washer Switch	SWITCH,WSW & WSWA (W/R/WDO WPR & WA & DRVR INFO CONT)	2115A
Windshield Wiper and Windshield Washer Switch	SWITCH,WSW & WSWA (W/DRVR INFO DISPLAY CONT)	2116A
Windshield Wiper and Windshield Washer Switch	SWITCH,WSW & WSWA(W/PNL)	2610A
Windshield Wiper and Windshield Washer Switch	SWITCH,WSW & WSWA(W/PNL & W/S DEFR SW)	2615A
Windshield Wiper and Windshield Washer Switch	SWITCH,WSW & WSWA(W/PNL & W/S DEFR & R/WDO DEFG SW)	2617A
Windshield Wiper and Windshield Washer Switch	SWITCH,WSW & WSWA(W/PNL & R/WDO DEFOG SW)	2620A
Windshield Wiper and Windshield Washer Switch	SWITCH,WSW & WSWA	X0081

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Windshield Washer Nozzle Hose Replacement





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Callout	Component Name
Preliminary Procedures 1. Remove the hood insulator. 2. Place a clean container under the front passenger side (RHD: driver side) near where the windshield washer nozzle and windshield washer pump hose will be disconnected. 3. Remove the front wheelhouse liner to access the washer nozzle hose. Refer to Front Wheelhouse Liner Replacement. 4. Recover all lost windshield washer solvent.	
1	Windshield Washer Nozzle Hose Tip Disconnect the washer hose from both hood mounted washer nozzles.

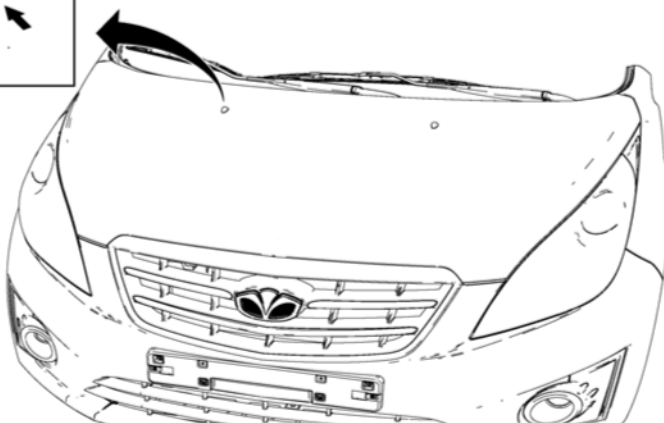
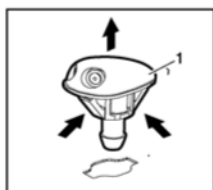
Related Part Information

Part Name	Catalog Name	Part Code
Windshield Washer Nozzle	NOZZLE,WSWA	0650A
Windshield Washer Nozzle Hose	HOSE,WSWA NOZ	1050A
Windshield Washer Nozzle Hose	HOSE,WSWA NOZ	1100A

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Windshield Washer Nozzle Replacement





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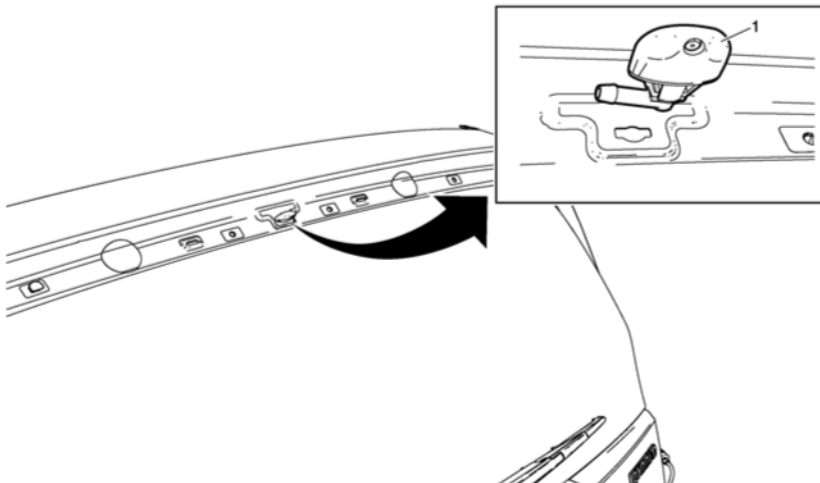
Callout	Component Name
Preliminary Procedures	
1. Disconnect the washer hose from the washer nozzles.	
2. Remove the hood insulator.	
1	Windshield Washer Nozzle Assembly
	Tip
	Push the washer nozzle retaining tab from the bottom side in order to release the nozzle and push the nozzle outboard from the hood to remove.

Related Part Information

Part Name	Catalog Name	Part Code
Windshield Washer Nozzle	NOZZLE,WSWA 0650A	
Windshield Washer Nozzle	NOZZLE,WSWA 0651A	

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Rear Window Washer Nozzle Replacement





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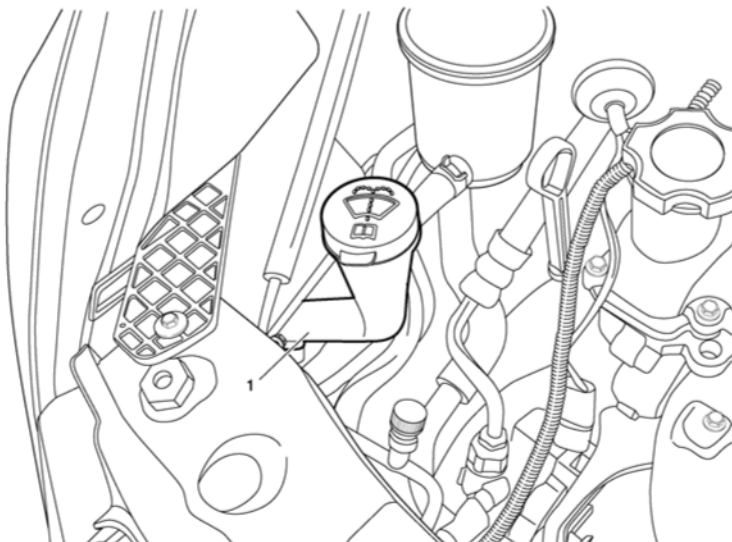
Callout	Component Name
Preliminary Procedures	
1. Remove the rear end spoiler. Refer to Rear End Spoiler Replacement .	
2. Remove the rear window washer nozzle hose.	
1	Rear Window Washer Nozzle
	Tip
	Push the washer nozzle retaining tab from the bottom side.

Related Part Information

Part Name	Catalog Name	Part Code
Rear Window Washer Nozzle	NOZZLE,R/WDO WA (W/RDO ANT BASE)	3797A
Rear Window Washer Nozzle	NOZZLE,R/WDO WA	3800A
Rear Window Washer Nozzle	NOZZLE,R/WDO WA	3800B

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Windshield Washer Solvent Container Filler Tube Replacement





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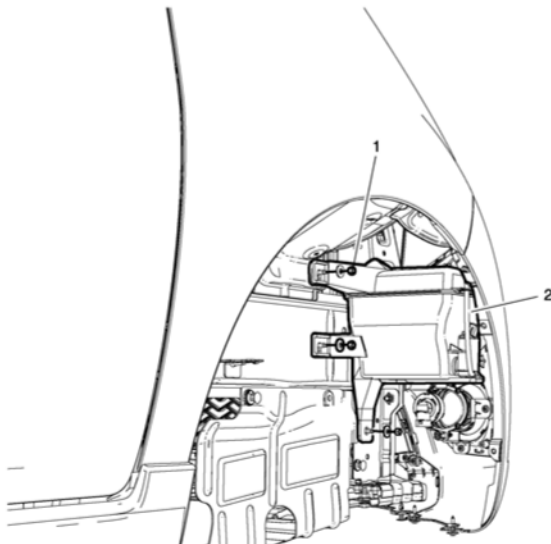
Callout	Component Name
1	Windshield Washer Solvent Container Filler Tube Assembly Procedure Pull the upper tube assembly from the lower washer container and inspect the grommet, replace if damaged.

Related Part Information

Part Name	Catalog Name	Part Code
Windshield Washer Solvent Container Filler Tube	TUBE,WSWA SOLV CNTNR FIL(W/FLOAT)	1735A
Windshield Washer Solvent Container Filler Tube	TUBE KIT,WSWA SOLV CNTNR FIL	1735Z
Windshield Washer Solvent Container Filler Tube	TUBE,WSWA SOLV CNTNR FIL	1736A
Windshield Washer Solvent Container Filler Tube	TUBE,WSWA SOLV CNTNR FIL	1736B

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Windshield Washer Solvent Container Replacement





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Callout	Component Name
	Preliminary Procedures 1. Remove the tire and wheel. Refer to Tire and Wheel Removal and Installation. 2. Remove the front wheelhouse liner. Refer to Front Wheelhouse Liner Replacement. 3. Disconnect the washer hose from the washer pump. 4. Disconnect the electrical connector.
1	Windshield Washer solvent Container Nut (Qty:â€%3) Caution: Refer to Fastener Caution. Tighten 9â€%N-m (80â€%lbâ€%in)
2	Windshield Washer Solvent Container Assembly

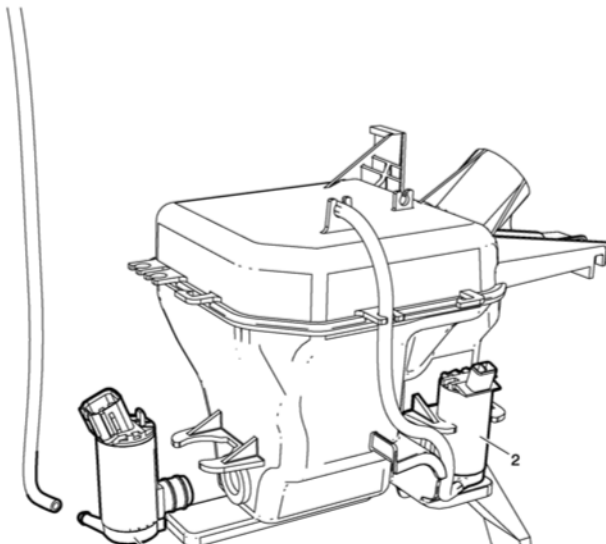
Related Part Information

Part Name	Catalog Name	Part Code
Windshield Washer Solvent Container	CONTAINER KIT,WSWA SOLV	1485A
Windshield Washer Solvent Container	CONTAINER,WSWA SOLV (W/COOL RCVY RSVR)	1490A
Windshield Washer Solvent Container	CONTAINER,WSWA SOLV(W/SOLV LVL SW)	1495A
Windshield Washer Solvent Container	CONTAINER,WSWA SOLV	1500A
Windshield Washer Solvent Container	CONTAINER,WSWA SOLV (W/WSWA PUMP & R/WDO WA PUMP)	1505A
Windshield Washer Solvent Container	CONTAINER,WSWA SOLV	1550A
Windshield Washer Solvent Container	CONTAINER,WSWA SOLV (W/PUMP)	1575A
Windshield Washer Solvent Container	CONTAINER,WSWA SOLV (W/PUMP & SOLV LVL SW)	1575B
Windshield Washer Solvent Container	CONTAINER,WSWA SOLV (W/PUMP & COOL RCVY RSVR)	1575G
Windshield Washer Solvent Container	CONTAINER,WSWA SOLV (W/ PUMP & R/WDO PUMP & RCVY RSVR)	1576A
Windshield Washer Solvent Container	CONTAINER,WSWA SOLV (W/ PUMP &R/WDOPUMP&HDLP WA PUMP)	1576B
Windshield Washer Solvent Container	CONTAINER,WSWA SOLV (W/ PUMP & HDLP WA PUMP)	1576C
Windshield Washer Solvent Container	CONTAINER,WSWA SOLV(W/FRT INT AIR DUCT & RESO)	3476A

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Windshield Washer Pump Replacement





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Callout	Component Name
Preliminary Procedures	
1. Remove the tire and wheel. Refer to Tire and Wheel Removal and Installation .	
2. Remove the front wheelhouse liner. Refer to Front Wheelhouse Liner Replacement .	
3. Disconnect the washer hose from the washer pump.	
4. Disconnect the electrical connector.	
1	Windshield Washer Solvent Pump
2	Rear Window Washer Solvent Pump

Related Part Information

Part Name	Catalog Name	Part Code
Windshield Washer Pump	PUMP KIT,WSWA	2078A
Windshield Washer Pump with Seal	PUMP KIT,WSWA W/SEAL	2078F

Part Name

Windshield Washer Pump

Catalog Name

PUMP,WSWA

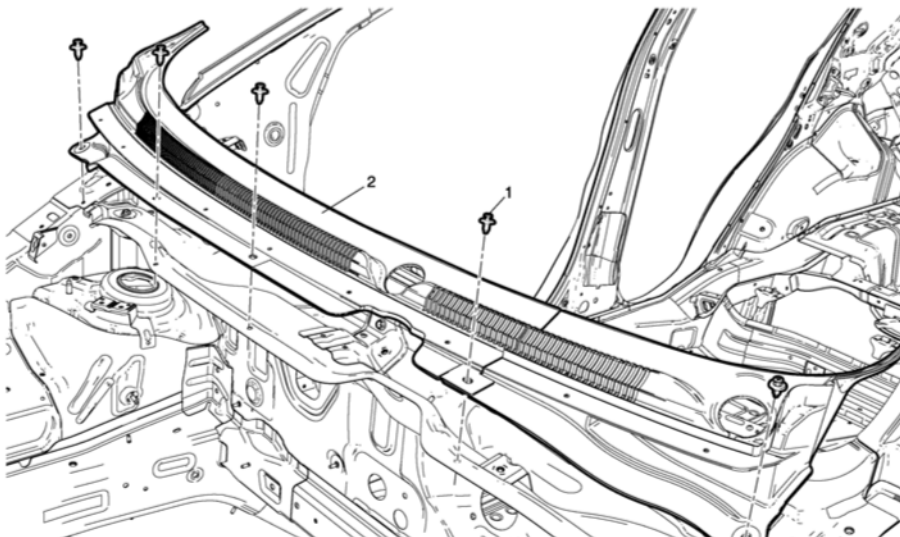
Part Code

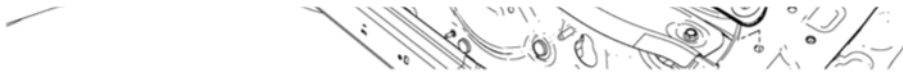
2080A

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Air Inlet Grille Panel Replacement





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Callout	Component Name
Preliminary Procedure	
Remove the wiper arms. Refer to Windshield Wiper Arm Replacement .	
1	Air Inlet Grille Panel Clip (Qty:â€‰5)
2	Air Inlet Grille Panel Assembly Procedure Remove hood rear weatherstrip.

Related Part Information

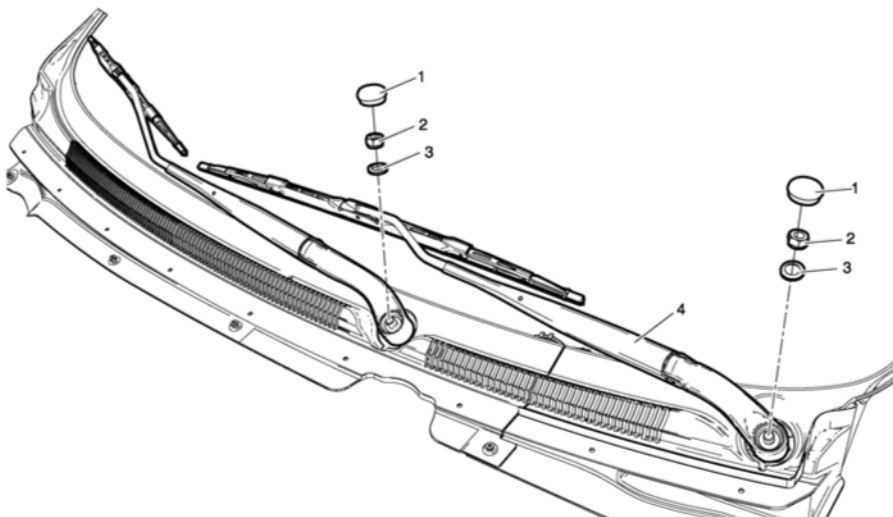
Part Name	Catalog Name	Part Code
Air Inlet Grille Panel	PANEL,AIR INL GRL	2274A
Air Inlet Grille Panel	PANEL,AIR INL GRL (UPR)	2274F
Air Inlet Grille Panel	PANEL,AIR INL GRL (LWR)	2274G
Air Inlet Grille Panel	PANEL,AIR INL GRL (CTR)	2274H

Part Name	Catalog Name	Part Code
Air Inlet Grille Panel	PANEL PKG,AIR INL GRL	2274Z
Air Inlet Grille Panel	PANEL,AIR INL GRL	2275A
Air Inlet Grille Panel	PANEL,AIR INL GRL (UPR)	2275F
Air Inlet Grille Panel	PANEL,AIR INL GRL (LWR)	2275G

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Windshield Wiper Arm Replacement





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Callout	Component Name
1	Windshield Wiper Arm Finish Cap Tip Use a small flat-bladed tool to remove finish cap.
2	Windshield Wiper Arm Nut [2>x] Caution : Fastener Caution Tighten 24N-m (18 lb ft)
3	Windshield Wiper Arm Washer

Callout	Component Name
4	Windshield Wiper Arm
	Tip
	Use the wiper arm puller if the arm fails to release from the wiper motor pivot shaft.

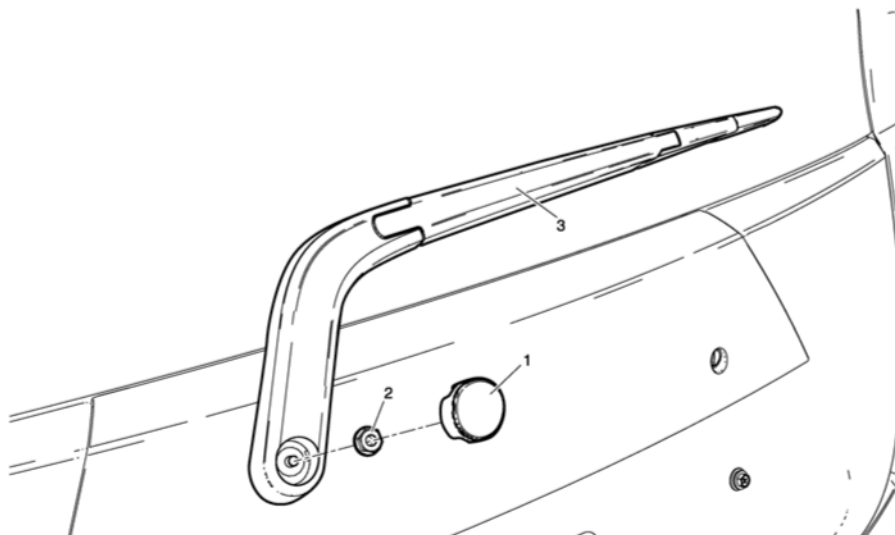
Related Part Information

Part Name	Catalog Name	Part Code
Windshield Wiper Arm	ARM KIT,WSW(W/WA NOZ & HOSE)	0545B
Windshield Wiper Arm	ARM KIT,WSW(W/REINF)(FIELD FIX)	0546B
Windshield Wiper Arm	ARM,WSW	0550A
Windshield Wiper Arm	ARM,WSW	0550B
Windshield Wiper Arm	ARM PKG,WSW	SJ531
Windshield Wiper Arm	ARM,WSW	SJ532

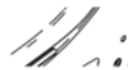
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Rear Window Wiper Arm Replacement



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Callout	Component Name
1	Rear Window Wiper Arm Finish Cap Tip Use a small flat-bladed tool to remove finish cap.
2	Rear Window Wiper Arm Nut Caution: Refer to Fastener Caution . Tighten 9â€%N-m (80â€%lbâ€%in)
3	Rear Window Wiper Arm Assembly Tip Use the wiper arm puller if the arm fails to release from the wiper motor pivot shaft.

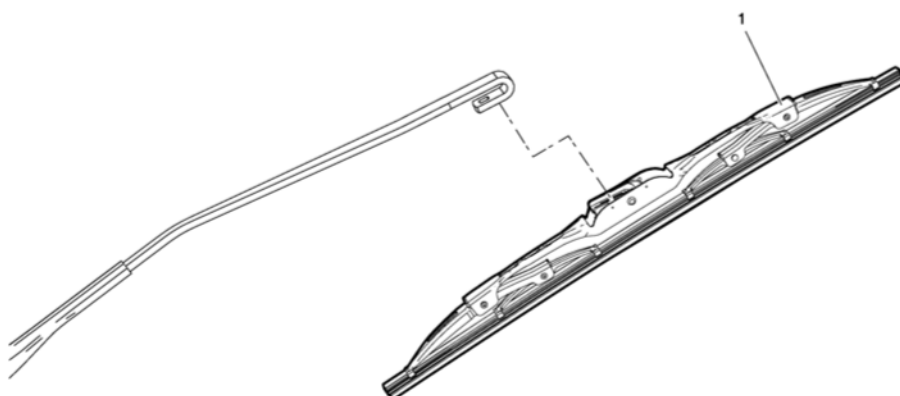
Related Part Information

Part Name	Catalog Name	Part Code
Rear Window Wiper Arm	ARM,R/WDO WPR	3099Y
Rear Window Wiper Arm	ARM,R/WDO WPR	3100A
Rear Window Wiper Arm	ARM,R/WDO WPR	3100B
Rear Window Wiper Arm	ARM,R/WDO WPR (W/BLADE)	3107A

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Windshield Wiper Blade Replacement



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Callout	Component Name
Preliminary Procedure	
Raise the wiper arm up off the windshield.	
1	Windshield Wiper Arm Blade Assembly Procedure 1. Push inward the square tab at the center top side of the wiper blade. 2. Rotate the wiper blade downward slightly. 3. Carefully release the wiper arm back to the windshield. Tip Discard if rubber appears worn or does not wipe the windshield clean.

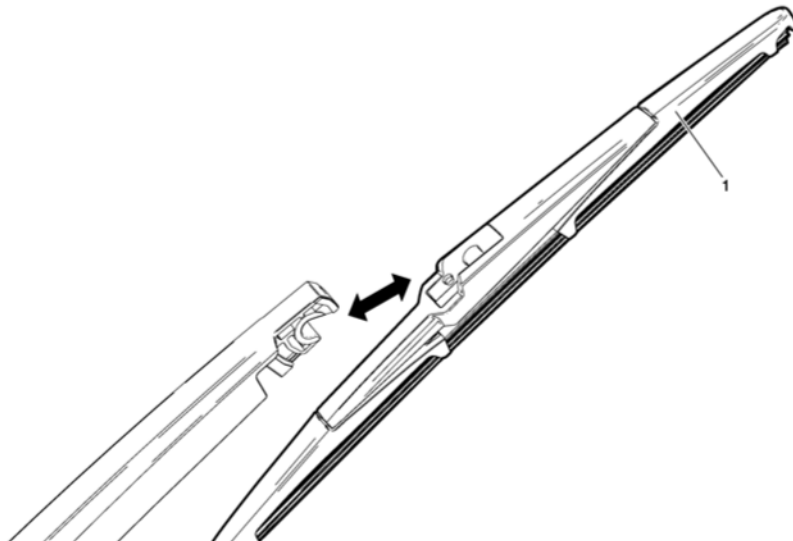
Related Part Information

Part Name	Catalog Name	Part Code
Windshield Wiper	WIPER,W/S	0025A
Windshield Wiper Blade	BLADE KIT,WSW	0599Z
Windshield Wiper Blade	BLADE,WSW	0600A
Windshield Wiper Blade	BLADE,WSW	0600B
Windshield Wiper Blade	BLADE,WSW(W/ARM)	0620A

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Rear Window Wiper Blade Replacement





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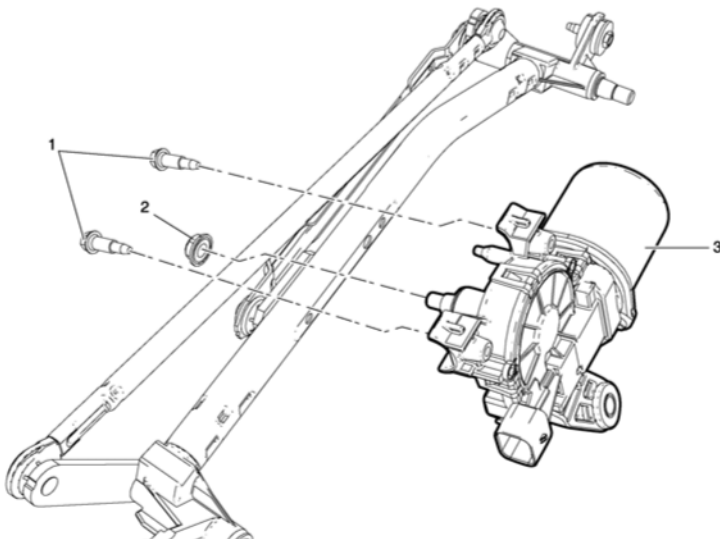
Callout	Component Name
1	Rear Window Wiper Arm Blade Assembly Procedure Push the rear window wiper blade from the rear window wiper arm.

Related Part Information

Part Name	Catalog Name	Part Code
Rear Window Wiper Blade	BLADE,R/WDO WPR	3150A
Rear Window Wiper Blade	BLADE,R/WDO WPR	3150B
Rear Window Wiper Blade	BLADE,R/WDO WPR (W/ ARM)	3151A

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Windshield Wiper Motor Replacement





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Callout	Component Name
Preliminary Procedures 1. Remove the windshield wiper arms. Refer to Windshield Wiper Arm Replacement. 2. Remove the air inlet grille panel. Refer to Air Inlet Grille Panel Replacement. 3. Remove the windshield wiper transmission. Refer to Windshield Wiper Transmission Replacement.	
1	Windshield Wiper Motor Bolt (Qty:â€™%2) Caution: Refer to Fastener Caution. Tighten 13â€™%N-m (10â€™%lbâ€™%off)

Callout	Component Name
2	Windshield Wiper Motor Nut (Qty:â€%01)
	Tighten
	23â€%0N-m (17â€%0lbâ€%0ft)
3	Windshield Wiper Motor Assembly

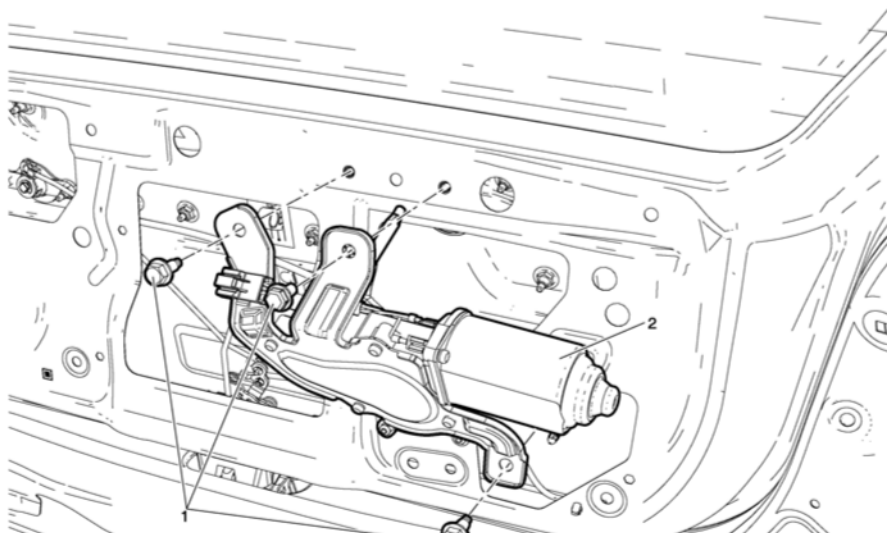
Related Part Information

Part Name	Catalog Name	Part Code
Windshield Wiper Motor MOTOR KIT,WSW		0320A
Windshield Wiper Motor MOTOR KIT,WSW		0320B
Windshield Wiper Motor MOTOR,WSW		0325A
Windshield Wiper Motor MOTOR,WSW		0325B
Windshield Wiper Motor MOTOR,WSW(W/TRANS)		0325C

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Rear Window Wiper Motor Replacement





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Callout	Component Name
Preliminary Procedures	
1. Remove the rear window wiper arms. Refer to Rear Window Wiper Arm Replacement .	
2. Remove the liftgate trim panel. Refer to Liftgate Trim Panel Replacement .	
3. Disconnect the wiper motor connector.	
1	Rear Window Wiper Motor Bolt (Qty: 3) Caution: Refer to Fastener Caution . Tighten 8 N·m (71 lb·in)
2	Rear Window Wiper Motor Assembly

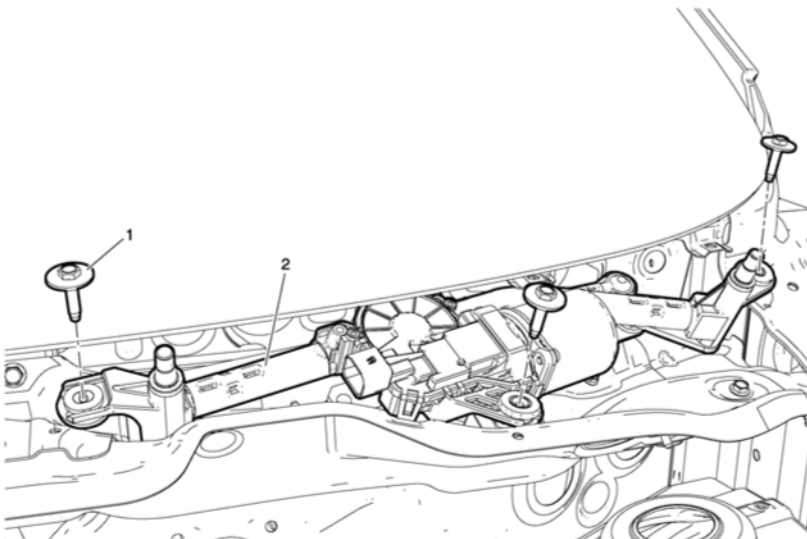
Related Part Information

Part Name	Catalog Name	Part Code
Rear Window Wiper Motor	MOTOR KIT,R/WDO WPR	2995A
Rear Window Wiper Motor	MOTOR,R/WDO WPR	3000A
Rear Window Wiper Motor	MOTOR,R/WDO WPR (W/O TRANS)	X0068

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Windshield Wiper Transmission Replacement





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Callout	Component Name
Preliminary Procedures	
1. Remove the windshield wiper arms. Refer to Windshield Wiper Arm Replacement .	
2. Remove the air inlet grille panel. Refer to Air Inlet Grille Panel Replacement .	
1	Windshield Wiper Transmission Frame Bolt (Qty:â€%3) Caution: Refer to Fastener Caution . Tighten 10â€%N-m (89â€%lb-in)
2	Windshield Wiper Transmission Frame Assembly

Related Part Information

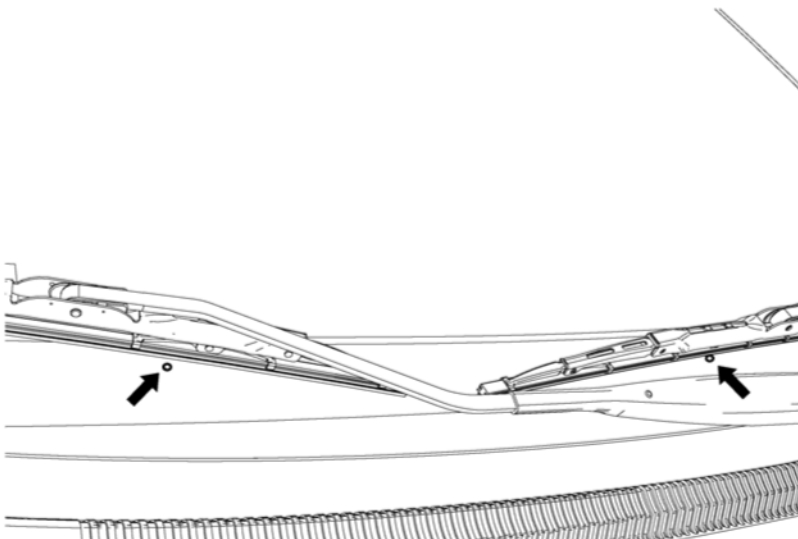
Part Name	Catalog Name	Part Code
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Part Name	Catalog Name	Part Code
Windshield Wiper Transmission	TRANSMISSION,WSW	0350A
Windshield Wiper Transmission	TRANSMISSION KIT,WSW	0350B

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Windshield Wiper Arm Adjustment





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Callout	Component Name
Tip	
When installing the windshield wiper arm, perform this procedure for wiper arm to be in original position.	
1. Check the mark to install the wiper arm at the lower blackout of the windshield.	
2. Position the wiper arm blade to this mark.	

Related Part Information

Part Name	Catalog Name	Part Code
Windshield Wiper Arm	ARM KIT,WSW(W/WA NOZ & HOSE)	0545B
Windshield Wiper Arm	ARM KIT,WSW(W/REINF)(FIELD FIX)	0546B
Windshield Wiper Arm	ARM,WSW	0550A
Windshield Wiper Arm	ARM,WSW	0550B
Windshield Wiper Arm	ARM PKG,WSW	SJ531
Windshield Wiper Arm	ARM,WSW	SJ532

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.	
Rear Window Wiper Arm Nut	9â€‰N-mâ€‰(80â€‰lbâ€‰in)
Rear Window Wiper Motor Bolt	8â€‰N-mâ€‰(71â€‰lbâ€‰in)
Windshield Washer Solvent Container Nut	9â€‰N-mâ€‰(80â€‰lbâ€‰in)
Windshield Wiper Arm Nut	24â€‰N-mâ€‰(18â€‰lbâ€‰ft)
Windshield Wiper Motor Bolt	13â€‰N-mâ€‰(115â€‰lbâ€‰in)
Windshield Wiper Motor Nut	23â€‰N-mâ€‰(17â€‰lbâ€‰ft)
Windshield Wiper Transmission Frame Bolt	10â€‰N-mâ€‰(89â€‰lbâ€‰in)

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Approximate Fluid Capacities

Application	Specification	
	Metric	English
Washer Solvent Container	2.5â€‰%L	2.64â€‰%quarts

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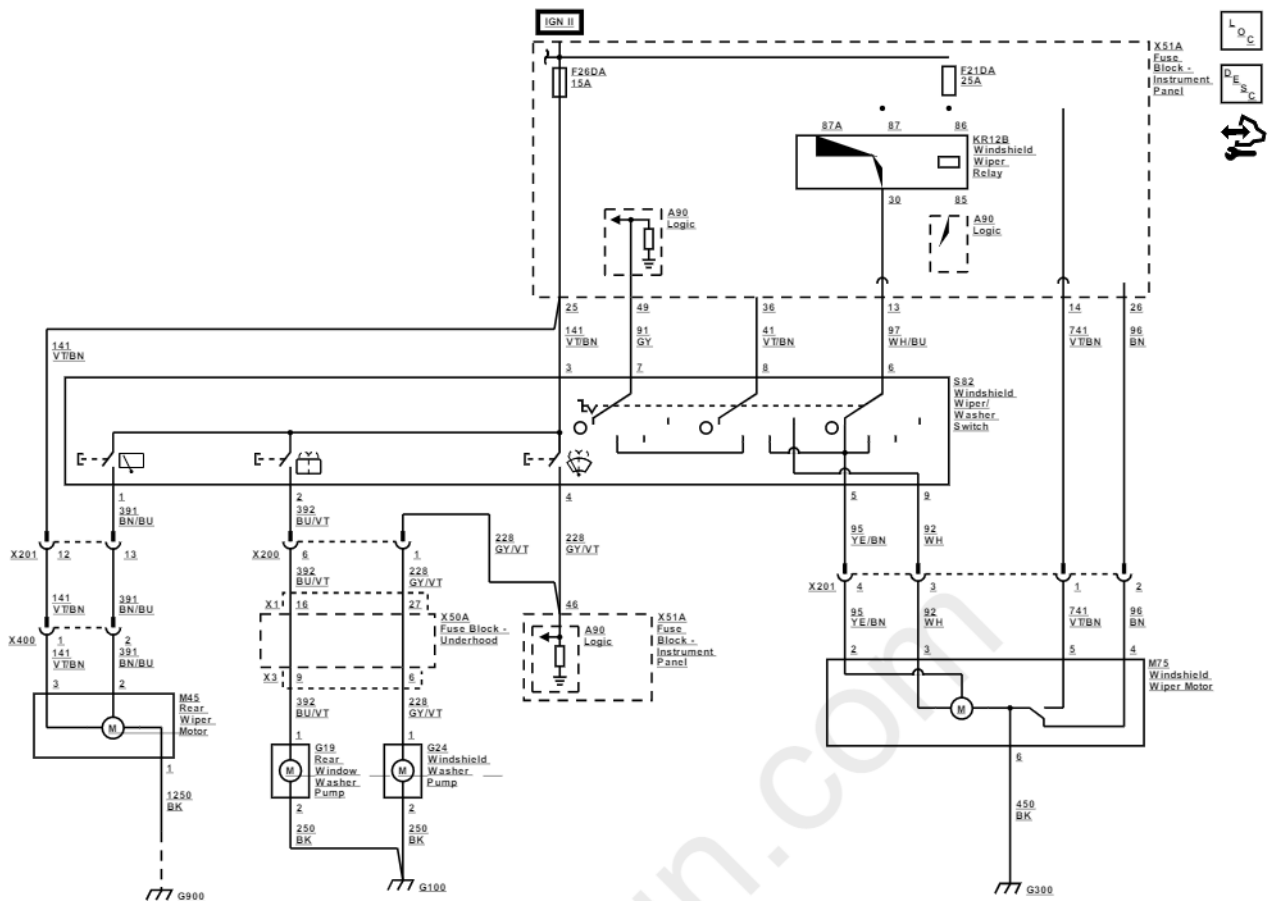
Schematic and Routing Diagrams

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Wiper|Washer Schematics

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Wiper/Washer



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BRAKES

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