

SECTION 9D

WIPERS/WASHER SYSTEMS

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

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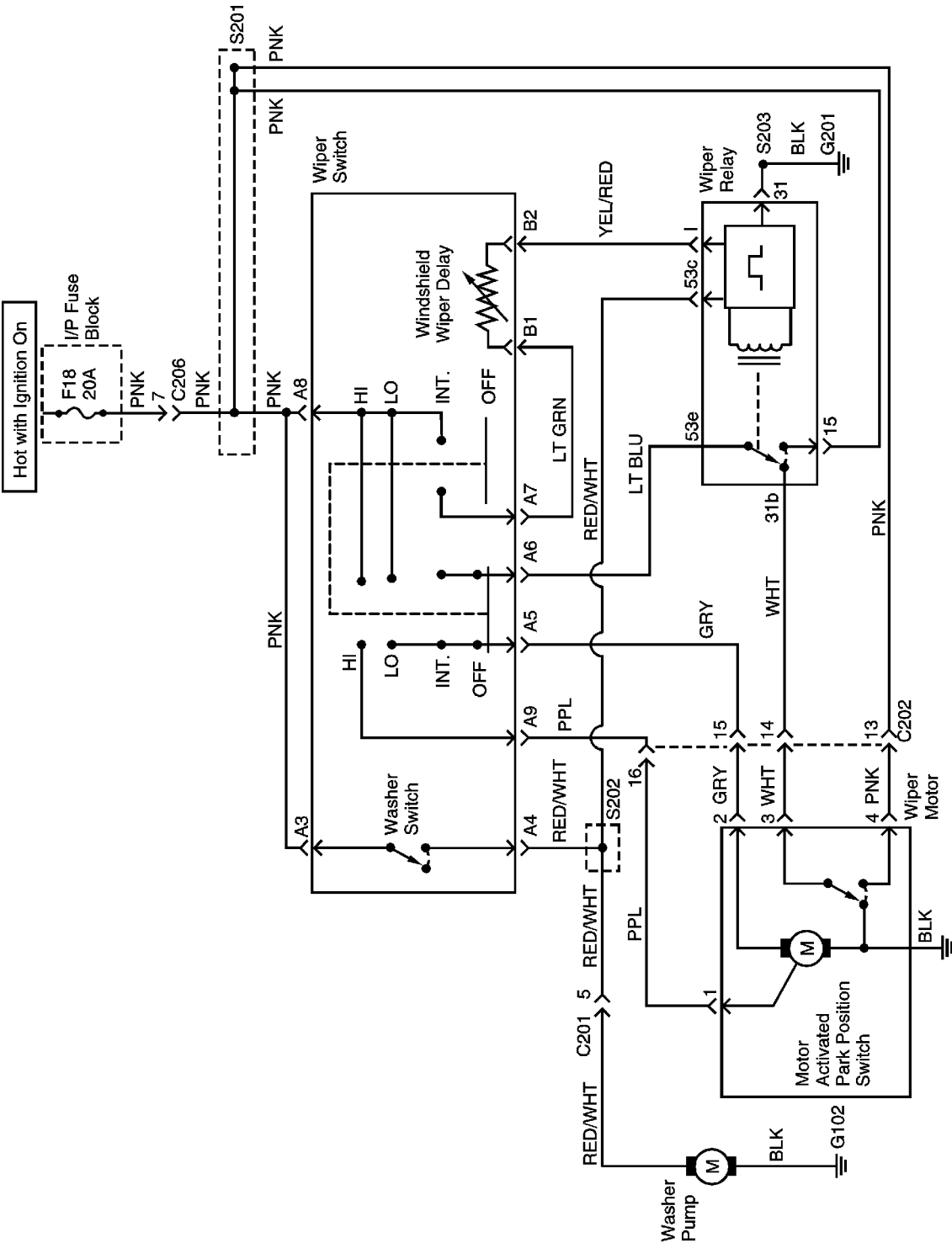
SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Application	N•m	Lb-Ft	Lb-In
Engine Coolant Reservoir Nuts	4	-	35
Front Wheel Well Splash Shield Screws	1.5	-	13
Washer Fluid Reservoir Bolts and Nuts	20	15	-
Wiper Arm Linkage Nut	8.5	-	76
Wiper Arm Nut	11	-	97
Wiper Motor Bolts	9	-	80

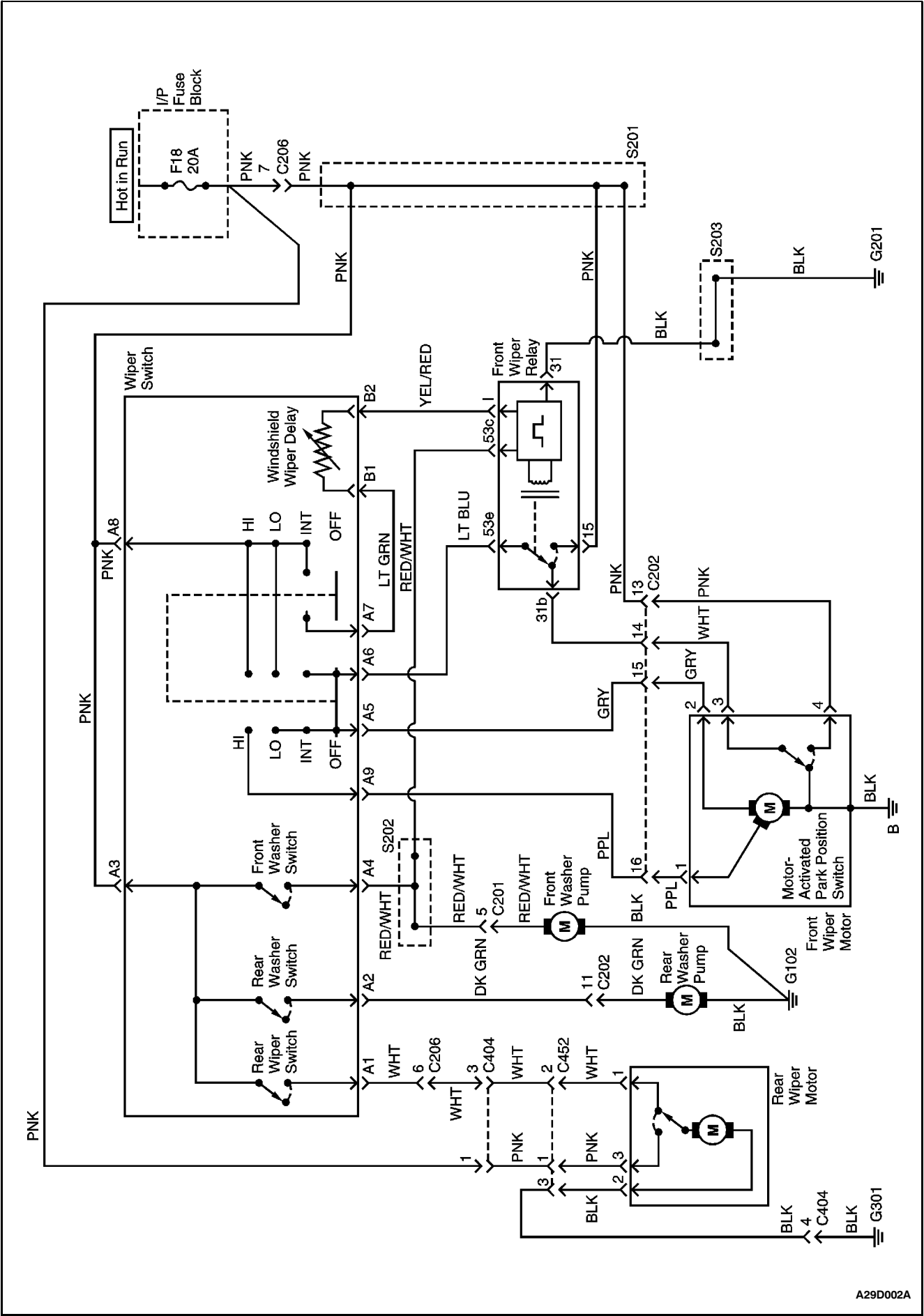
SCHEMATIC AND ROUTING DIAGRAMS

WINDSHIELD WIPERS AND WASHER SYSTEM



A29D001A

REAR WINDOW WIPER AND WASHER SYSTEM



A29D002A

DIAGNOSIS

INTERMITTENT WINDSHIELD WIPERS

Windshield Wipers Do Not Work At Any Speed

Step	Action	Value(s)	Yes	No
1	Check fuse F18. Is fuse F18 blown?	-	Go to Step 2	Go to Step 3
2	1. Check for a short circuit and repair if necessary. 2. Replace the fuse. Is the repair complete?	-	System OK	-
3	Check the battery voltage at fuse F18. Is battery voltage available at fuse F18?	11-14 v	Go to Step 5	Go to Step 4
4	Repair the open in the power supply circuit to fuse F18. Is the repair complete?	-	System OK	-
5	1. Turn the ignition ON. 2. Turn the wiper switch to HI. Is battery voltage available at wiper motor connector terminal 1?	11-14 v	Go to Step 6	Go to Step 7
6	Replace the faulty wiper motor. Is the repair complete?	-	System OK	-
7	1. Disconnect the wiper switch connector. 2. Turn the ignition ON. 3. With a voltmeter, check for battery voltage at connector terminal 8. Is battery voltage available at the wiper switch connector terminal 8?	11-14 v	Go to Step 9	Go to Step 8
8	Repair the open circuit between wiper switch connector terminal 8 and fuse F18. Is the repair complete?	-	System OK	-
9	1. Use an ohmmeter to test the continuity of the wiper switch. 2. Turn the wiper switch to HI. Check for continuity between wiper switch terminal 8 and 9. Is there continuity between terminals 8 and 9?	0 W	Go to Step 11	Go to Step 10
10	Replace the faulty wiper switch. Is the repair complete?	-	System OK	-
11	Repair the open circuit between the wiper switch and the wiper motor. Is the repair complete?	-	System OK	-

Wipers Do Not Work On HI Speed, LO Speed OK

Step	Action	Value(s)	Yes	No
1	1. Turn the ignition ON. 2. Turn the wiper switch to HI. Is battery voltage available at wiper motor connector terminal 1?	11-14 v	Go to Step 2	Go to Step 3
2	Replace the faulty wiper motor. Is the repair complete?	-	System OK	-
3	1. Use an ohmmeter to test the continuity of the wiper switch. 2. Turn the wiper switch to HI. Check for continuity between the wiper switch terminal 8 and 9. Is there continuity between terminals 8 and 9?	0 W	Go to Step 5	Go to Step 4
4	Replace the faulty wiper switch. Is the repair complete?	-	System OK	-
5	Repair the open circuit between wiper switch connector terminal 9 and wiper motor connector terminal 1. Is the repair complete?	-	System OK	-

Wipers Do Not Work On LO Speed, HI Speed OK

Step	Action	Value(s)	Yes	No
1	1. Turn the ignition ON. 2. Turn the wiper switch to LO. Is battery voltage available at wiper motor connector terminal 2?	11-14 v	Go to Step 2	Go to Step 3
2	Replace the faulty wiper motor. Is the repair complete?	-	System OK	-
3	1. Use an ohmmeter to test the continuity of the wiper switch. 2. Turn the wiper switch to LO. Check for continuity between the wiper switch terminal 8 and 5. Is there continuity between terminals 8 and 5?	0 W	Go to Step 5	Go to Step 4
4	Replace the faulty wiper switch. Is the repair complete?	-	System OK	-
5	Repair the open circuit between the wiper switch connector terminal 5 and the wiper motor connector terminal 2. Is the repair complete?	-	System OK	-

Wipers Do Not Work On Intermittent, Other Speeds OK

Step	Action	Value(s)	Yes	No
1	1. Turn the ignition ON. 2. Use a voltmeter to test for battery voltage at the wiper relay connector terminal 15. Is battery voltage available at connector terminal 15?	11-14 v	Go to Step 3	Go to Step 2
2	Repair the open circuit between the wiper relay connector terminal 15 and fuse F18. Is the repair complete?	-	System OK	-
3	1. Turn the ignition ON 2. Turn the wiper switch to INT. Using a voltmeter, is battery voltage available at the wiper relay connector terminal I?	11-14 v	Go to Step 7	Go to Step 4
4	1. Turn the ignition ON. 2. Turn the wiper switch to INT. Using a voltmeter, is battery voltage available at wiper switch connector terminal A7?	11-14 v	Go to Step 6	Go to Step 5
5	Replace the wiper switch. Is the repair complete?	-	System OK	-
6	Repair the open circuit between the wiper switch connector terminal A7 and the wiper relay connector terminal I. Is the repair complete?	-	System OK	-
7	1. Turn the ignition ON. 2. Turn the wiper switch to INT. Using a voltmeter, is battery voltage pulsing at wiper relay connector terminal 53e?	11-14 v	Go to Step 11	Go to Step 8
8	Using an ohmmeter, check the wiper relay ground circuit (connector terminal 31). Is the ground circuit OK?	0 W	Go to Step 10	Go to Step 9
9	Repair the open ground circuit. Is the repair complete?	-	System OK	-
10	Replace the wiper relay. Is the repair complete?	-	System OK	-
11	1. Disconnect the wiper switch connector. 2. Turn the wiper switch to INT. 3. Using an ohmmeter, check the wiper switch. Is there continuity between terminals A5 and A6?	0 W	Go to Step 13	Go to Step 12
12	Replace the faulty wiper switch. Is the repair complete?	-	System OK	-
13	Repair the open circuit between the wiper switch and the wiper relay. Is the repair complete?	-	System OK	-

Windshield Wipers Do Not Return To Park Position

Step	Action	Value(s)	Yes	No
1	1. Turn the ignition ON. 2. Use a voltmeter to test the battery voltage at the wiper motor. Is battery voltage available at wiper motor connector terminal 4?	11-14 v	Go to Step 3	Go to Step 2
2	Repair the open circuit between the wiper motor and fuse F18.	-	System OK	-
3	1. Turn the ignition ON 2. Turn the wiper switch to HI. 3. Use a voltmeter to test for a pulse of battery power at the wiper motor when turning the wiper switch OFF. Is a pulse of battery voltage available at the wiper motor connector terminal 3 when the wiper switch is turned OFF?	11-14 v	Go to Step 5	Go to Step 4
4	Replace the faulty wiper motor. Is the repair complete?	-	System OK	-
5	1. Turn the ignition ON. 2. Turn the wiper switch to HI. 3. Use a voltmeter to test for a pulse of battery power at the wiper relay when turning the wiper switch OFF. Is a pulse of battery voltage available at the wiper relay connector terminal 31b when the wiper switch is turned OFF?	11-14 v	Go to Step 7	Go to Step 6
6	Repair the open circuit between the wiper motor and the wiper relay. Is the repair complete?	-	System OK	-
7	1. Disconnect the wiper relay from the connector. 2. Use an ohmmeter to test the continuity of the relay. Is there continuity between wiper relay connector terminals 31b and 53e?	0 W	Go to Step 9	Go to Step 8
8	Replace the faulty wiper relay. Is the repair complete?	-	System OK	-
9	Replace the faulty wiper switch. Is the repair complete?	-	System OK	-

WINDSHIELD WASHER SYSTEM

Windshield Washer Does Not Work, Wipers Are OK

Step	Action	Value(s)	Yes	No
1	Do the windshield wipers operate when the washer switch is activated?	-	Go to Step 4	Go to Step 2
2	1. Turn the ignition ON. 2. While activating the washer switch, use a voltmeter to test for battery voltage at the windshield wiper switch. Is battery voltage available at the windshield wiper switch connector terminal 4?	11-14 v	Go to Step 8	Go to Step 3
3	Replace the windshield wiper switch. Is the repair complete?	-	System OK	-
4	Is there washer fluid in the windshield washer fluid reservoir?	-	Go to Step 6	Go to Step 5
5	Fill the windshield washer fluid reservoir. Is the repair complete?	-	System OK	-
6	Are the windshield washer hoses or the nozzles clogged or damaged?	-	Go to Step 7	Go to Step 8
7	Repair the washer hoses and the nozzles. Is the repair complete?	-	System OK	-
8	1. Turn the ignition ON. 2. With the windshield washer activated, use a voltmeter to test for battery voltage at the windshield washer pump. Is battery voltage available at the windshield washer pump ?	11-14 v	Go to Step 10	Go to Step 9
9	Repair the open circuit between the windshield washer pump and the windshield wiper switch. Is the repair complete?	-	System OK	-
10	Use an ohmmeter to check the ground circuit at the windshield washer pump. Is the ground circuit OK?	0 W	Go to Step 12	Go to Step 11
11	Repair the windshield washer pump ground circuit. Is the repair complete?	-	System OK	-
12	Replace the windshield washer pump. Is the repair complete?	-	System OK	-

REAR WINDOW WIPER (HATCHBACK)**Diagnostic Aids**

If the front wiper is operating correctly, begin the diagnostic table at Step 5. It would not be necessary to check the fuse or power supply circuit.

Rear Window Wiper (Hatchback)

Step	Action	Value	Yes	No
1	Check fuse F18. Is fuse F18 blown?	-	Go to Step 2	Go to Step 3
2	1. Check for a short circuit and repair if necessary. 2. Replace fuse F18. Is the repair complete?	-	System OK	-
3	1. Turn the ignition ON. 2. Check the voltage at fuse F18. Does the voltage equal the specified value?	11-14 v	Go to Step 5	Go to Step 4
4	Repair the open power supply circuit for fuse F18. Is the repair complete?	-	System OK	-
5	1. Disconnect the rear wiper motor electrical connector. 2. Turn the ignition ON. 3. Check the voltage at the PNK wire of the rear wiper motor electrical connector. Does the voltage equal the specified value?	11-14 v	Go to Step 7	Go to Step 6
6	Repair the open circuit for the PNK wire between fuse F18 and connector at the rear wiper motor. Is the repair complete?	-	System OK	-
7	With the rear wiper motor still disconnected, use an ohmmeter to check continuity between ground and the BLK wire of the rear wiper motor connector. Does the ohmmeter indicate the specified value?	[0 W	Go to Step 9	Go to Step 8
8	Repair the open ground circuit for the rear wiper motor. Is the repair complete?	-	System OK	-
9	1. Turn the ignition ON. 2. Turn the rear wiper ON. 3. Check the voltage at the WHT wire at the rear wiper motor connector. Does the voltmeter indicate the specified value?	11-14 v	Go to Step 10	Go to Step 11
10	Replace the rear wiper motor. Is the repair complete?	-	System OK	-
11	1. Disconnect the wiper switch electrical connector. 2. Turn the ignition ON. 3. Check the voltage at terminal 3 (PNK). Is the voltage equal to the specified value?	11-14 v	Go to Step 13	Go to Step 12
12	Repair the open circuit between fuse F18 and the wiper switch connector terminal 3. Is the repair complete?	-	System OK	-
13	1. Connect an ohmmeter between terminals 1 and 3 of the wiper switch. 2. Observe the ohmmeter when the rear wiper switch is moved to the WIPE position. Does the ohmmeter indicate the specified value?	[0 W	Go to Step 14	Go to Step 15
14	Repair the open circuit between terminal 1 of the wiper connector (WHT wire) and the rear wiper motor. Is the repair complete?	-	System OK	-
15	Replace the wiper switch. Is the repair complete?	-	System OK	-

REAR WINDOW WASHER SYSTEM (HATCHBACK)

Step	Action	Value	Yes	No
1	Check the washer fluid level. Is there fluid in the washer reservoir?	-	Go to Step 3	Go to Step 2
2	Fill the washer reservoir. Is the repair complete?	-	System OK	-
3	Verify that the hoses are not obstructed or leaking by disconnecting the washer hose and blowing through it toward the reservoir and also toward the nozzle. Are the hoses obstructed or leaking?	-	Go to Step 4	Go to Step 5
4	Repair or replace the hoses. Is the repair complete?	-	System OK	-
5	Check the function of the rear wiper. Does the rear wiper function correctly?	-	Go to Step 7	Go to Step 6
6	Repair the rear wiper before proceeding with this diagnostic table. Is the rear wiper repair complete?	-	Go to Step 7	-
7	1. Disconnect the electrical connector at the rear washer pump. 2. Use an ohmmeter to check continuity between the BLK wire of the rear washer pump connector and ground. Does the ohmmeter indicate the specified value?	[0 W	Go to Step 9	Go to Step 8
8	Repair the open or the high-resistance ground connection. Is the repair complete?	-	System OK	-
9	Check the voltage at the rear washer pump connector (DK GRN wire) when the rear washer is turned ON. Is the voltage equal to the specified value?	11-14 v	Go to Step 10	Go to Step 11
10	Replace the rear washer pump. Is the repair complete?	-	System OK	-
11	1. Disconnect the wiper switch. 2. Connect an ohmmeter between terminal 2 and terminal 3 of the wiper switch. 3. Observe the ohmmeter when the switch is moved to the rear WASH position. Does the ohmmeter indicate the specified value?	[0 W	Go to Step 12	Go to Step 13
12	Repair the open circuit between terminal 2 of the wiper switch connector and the rear washer pump. Is the repair complete?	-	System OK	-
13	Replace the wiper switch. Is the repair complete?	-	System OK	-

MAINTENANCE AND REPAIR

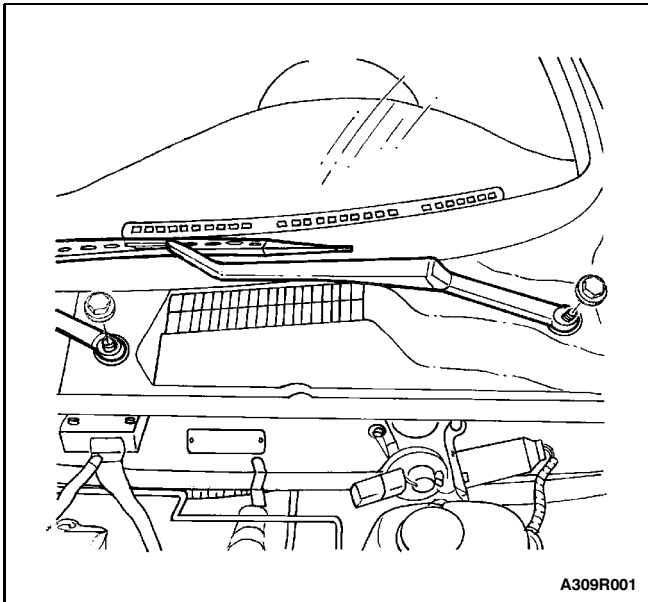
ON-VEHICLE SERVICE

WINDSHIELD WIPER ARM

(Typical)

Removal Procedure

1. Open the hood.
2. Remove the nut from the wiper arm.
3. Pull the wiper arm off.



Installation Procedure

1. Install the wiper arm.

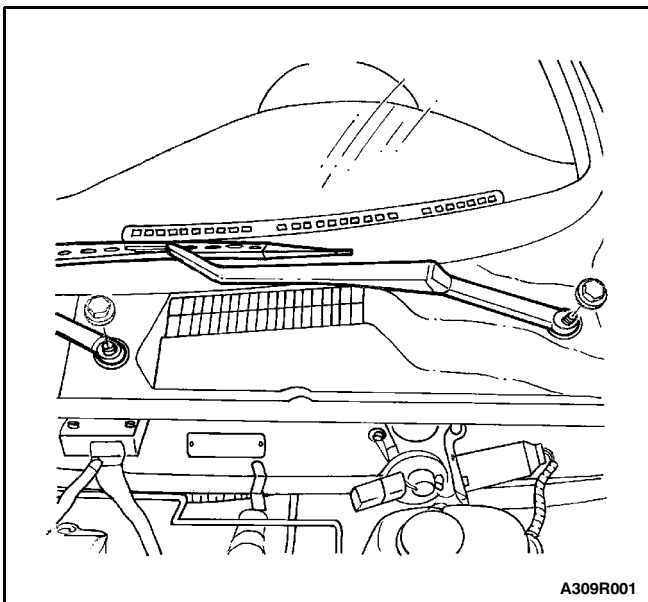
Notice: Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

2. Secure the wiper arm with the nut.

Tighten

Tighten the wiper arm nut to 11 N•m (97 lb-in).

3. Close the hood.

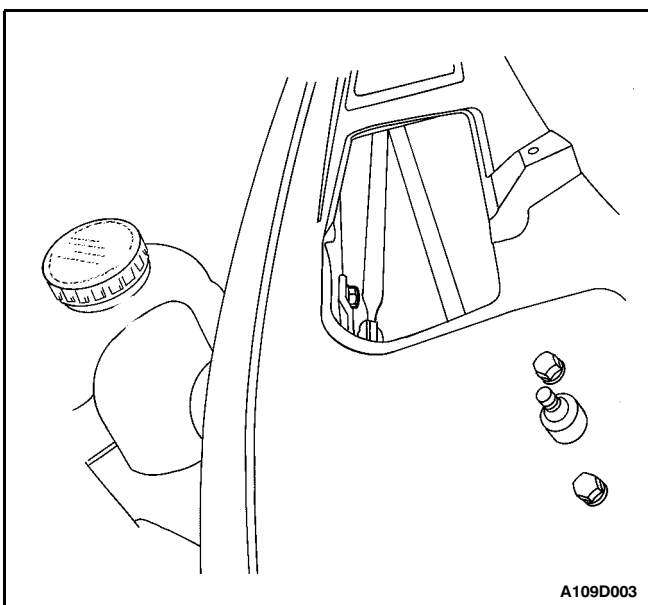


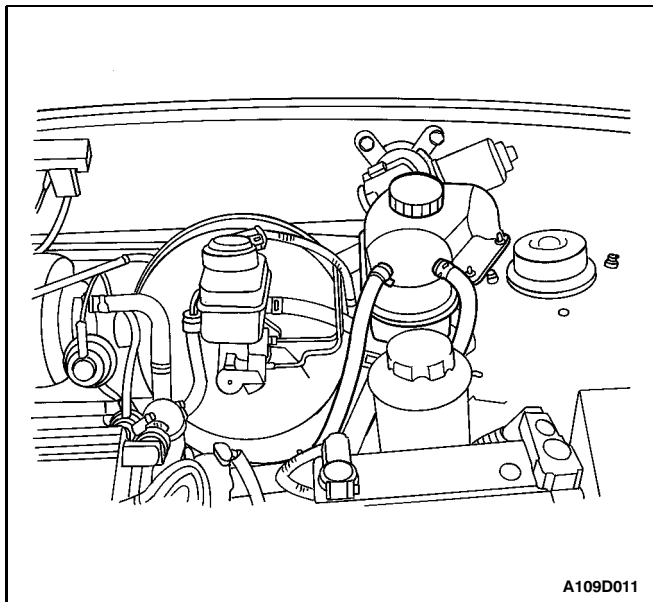
WINDSHIELD WIPER MOTOR

(Typical)

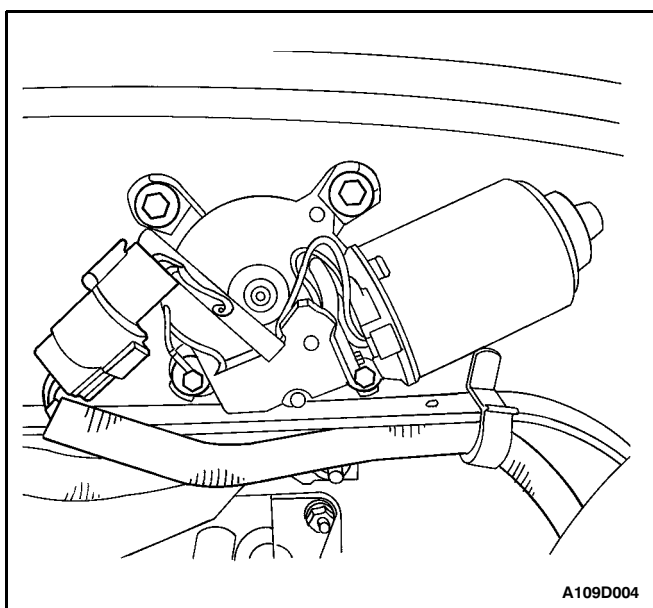
Removal Procedure

1. Disconnect the negative battery cable.
2. Put the wiper arms in the upright position.
3. Remove the left side portion of the cowl vent grille. Refer to Section 9R, Body Front End.
4. Remove the nut securing the wiper arm linkage to the motor drive shaft.

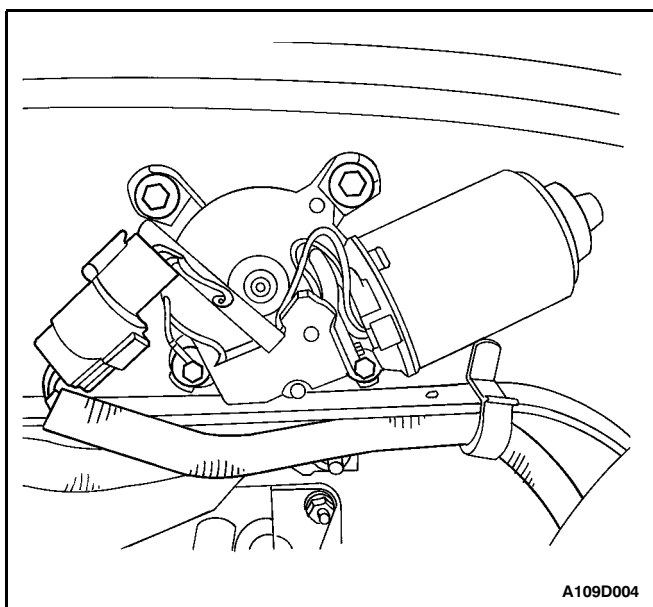




5. Pry the wiper arm linkage off the motor drive shaft.
6. Remove the nuts and reposition the engine coolant reservoir.



7. Disconnect the electrical connectors.
8. Remove the bolts and the wiper motor.



Installation Procedure

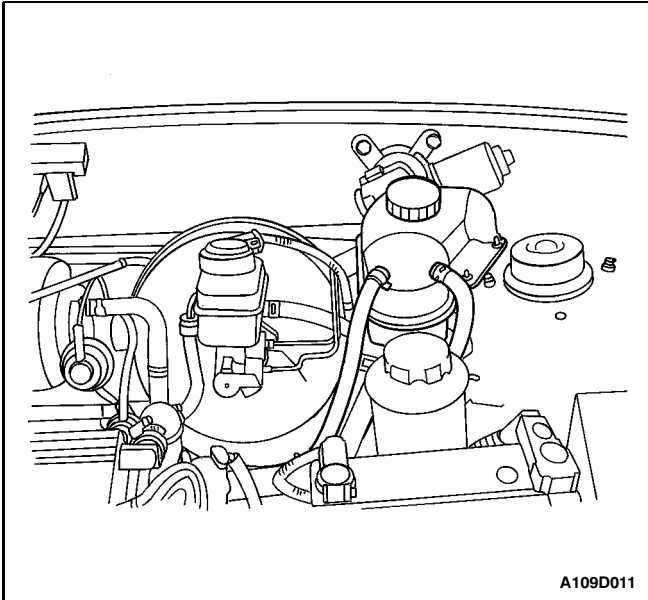
Notice: Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

1. Install the wiper motor with the bolts.

Tighten

Tighten the wiper motor bolts to 9 N•m (80 lb-in).

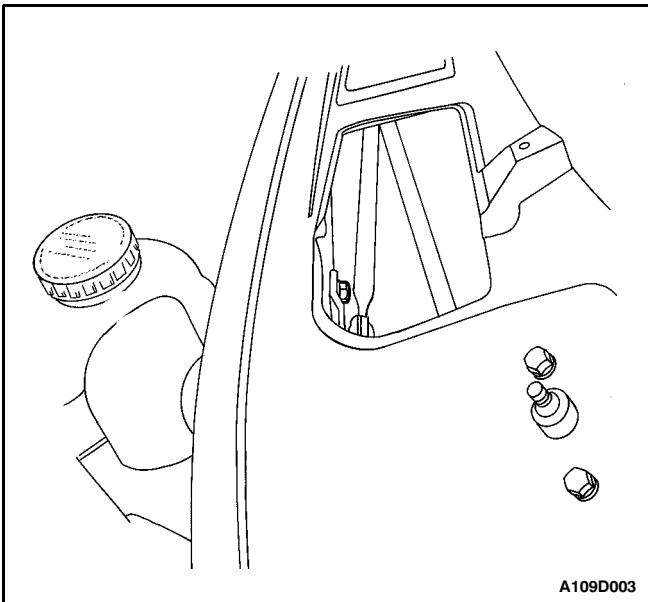
2. Connect the electrical connectors.



3. Install the engine coolant reservoir with the nuts.

Tighten

Tighten the engine coolant reservoir nuts to 4 N•m (35 lb-in).



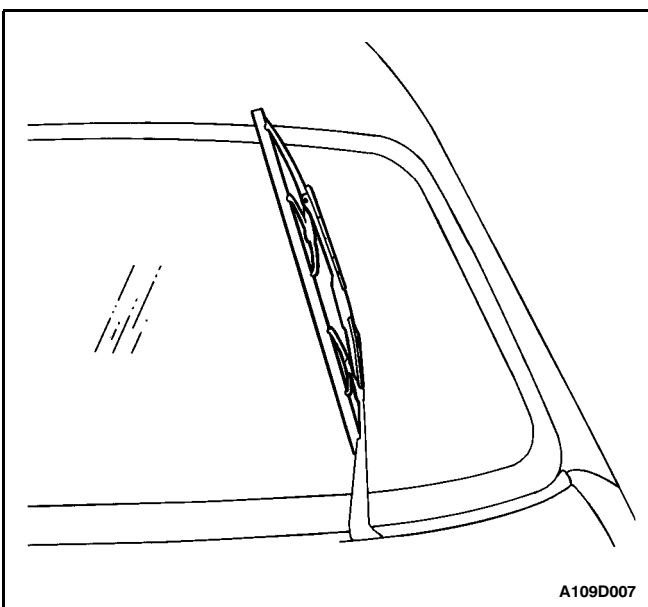
4. Press the wiper arm linkage onto the motor drive shaft.

5. Install the wiper arm linkage to the motor drive shaft with the nut.

Tighten

Tighten the wiper arm linkage nut to 8.5 N•m (76 lb-in).

6. Install the left side portion of the cowl vent grille. Refer to Section 9R, Body Front End.
7. Connect the negative battery cable.

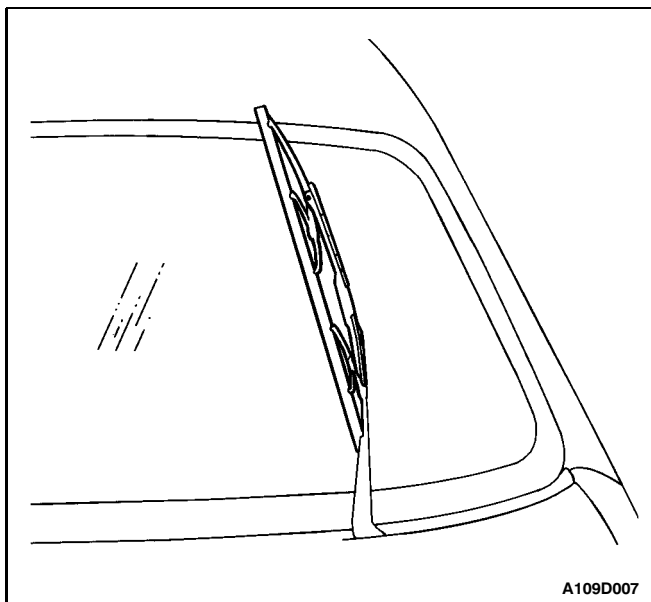


WINDSHIELD WIPER BLADE

(Typical)

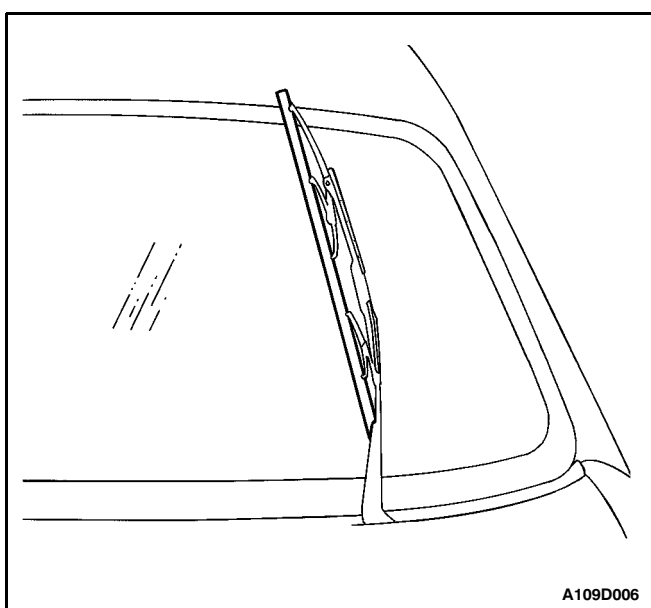
Removal Procedure

1. Rotate the wiper blade on the arm.
2. Pull the wiper blade off the arm.



Installation Procedure

1. Push the wiper blade onto the arm.

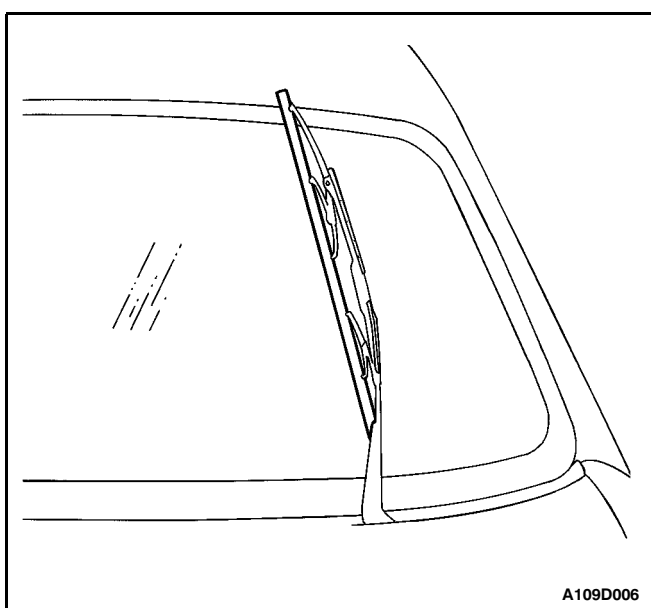


WINDSHIELD WIPER BLADE INSERT

(Typical)

Removal Procedure

1. Slide the insert out of the wiper blade.

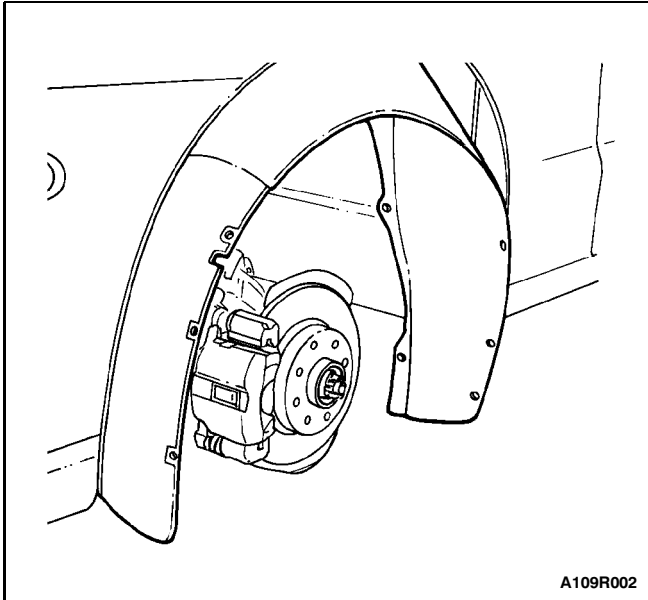


Installation Procedure

1. Slide the insert into the wiper blade.

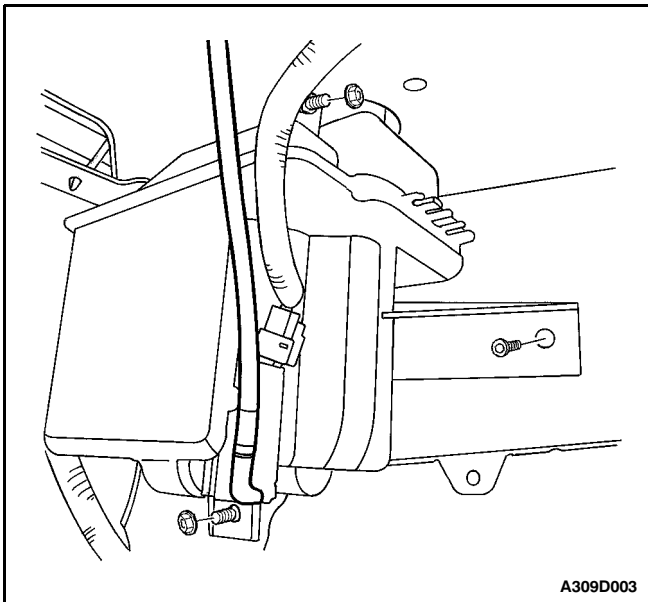
WINDSHIELD WASHER RESERVOIR**(Typical)****Removal Procedure**

1. Disconnect the negative battery cable.
2. Remove the front left wheel. Refer to Section 2E, Tires and Wheels.
3. Remove the screws and the front wheel well splash shield.



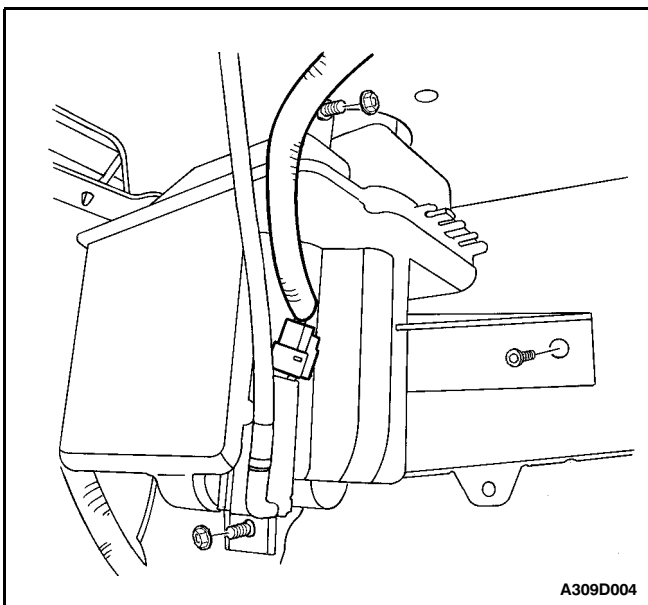
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4. Disconnect the washer hose(s) from the reservoir.

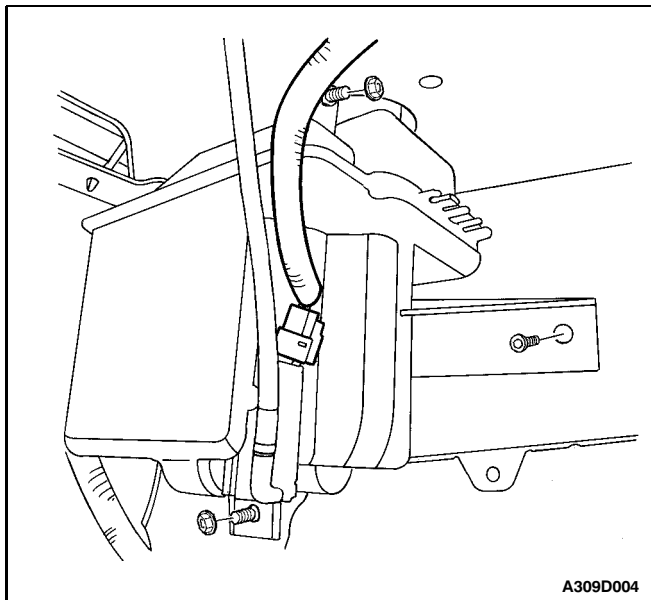


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5. Disconnect the reservoir pump electrical connector(s).
6. Remove the bolts, the nuts and the reservoir.



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Installation Procedure

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

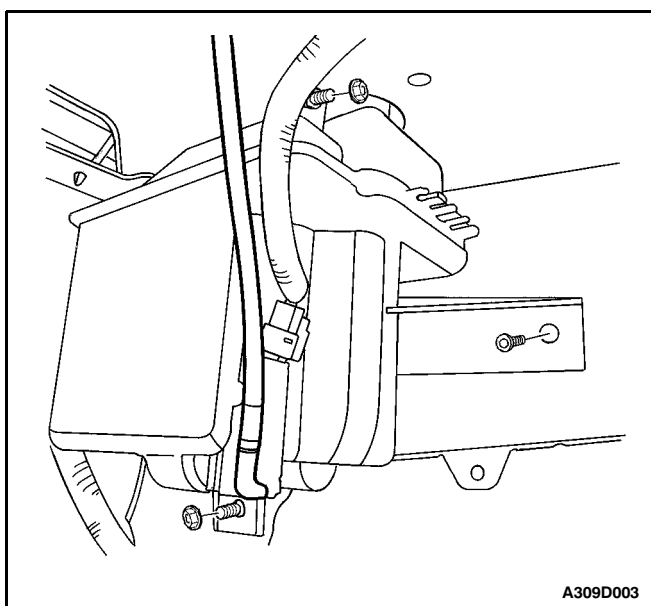
1. Install the reservoir with the nuts and the bolts.

Tighten

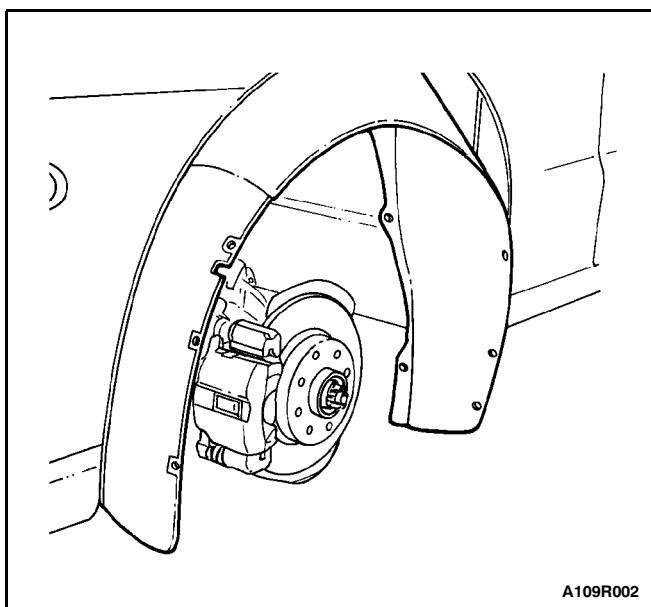
Tighten the washer fluid reservoir nuts to 20 N•m (15 lb-ft).

Tighten the washer fluid reservoir bolts to 20 N•m (15 lb-ft).

2. Connect the reservoir pump electrical connector(s).



3. Connect the washer hose(s) to the reservoir.

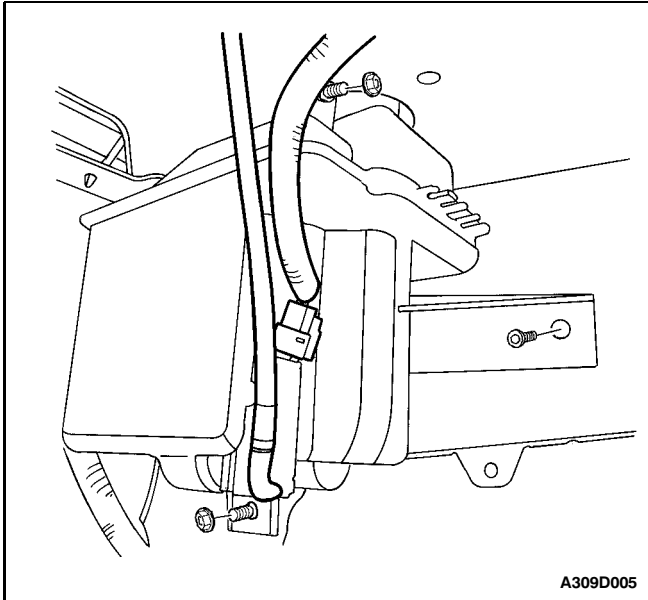


4. Install the front wheel well splash shield with the screws.

Tighten

Tighten the front wheel well splash shield screws to 1.5 N•m (13 lb-in).

5. Install the front left wheel. Refer to Section 2E, Tires and Wheels.
6. Connect the negative battery cable.



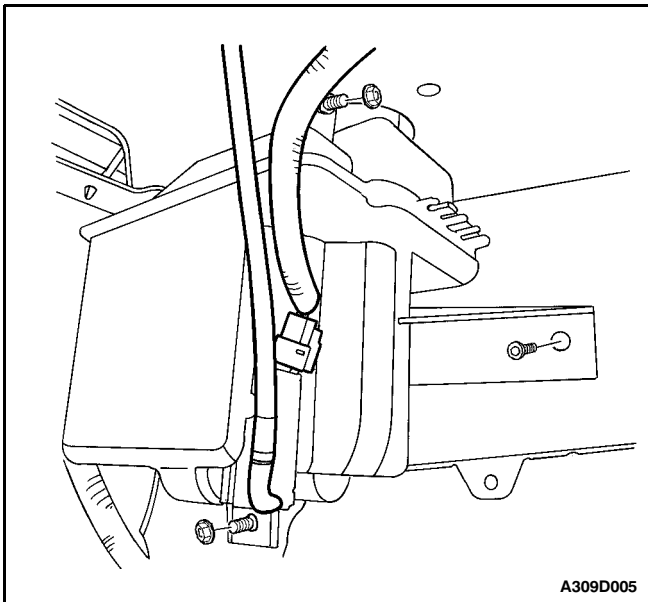
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WINDSHIELD WASHER PUMP(S)

(Typical)

Removal Procedure

1. Disconnect the negative battery cable.
2. Remove the front left wheel. Refer to Section 2E, Tires and Wheels.
3. Remove the screws and the front wheel well splash shield.
4. Disconnect the electrical connector.
5. Disconnect the washer hose.
6. Remove the washer pump.



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Installation Procedure

1. Install the washer pump.
2. Connect the washer hose.
3. Connect the electrical connector.

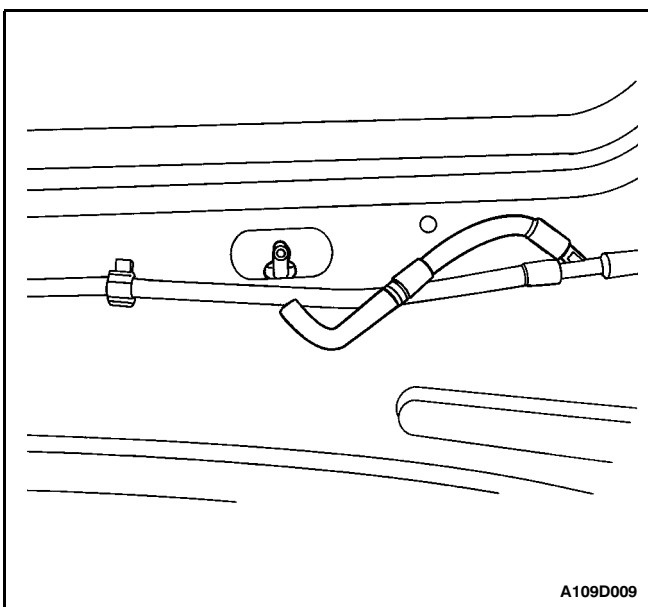
Notice: Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

4. Install the front wheel well splash shield with the screws.

Tighten

Tighten the front wheel well splash shield screws to 1.5 N·m (13 lb-in).

5. Install the front left wheel. Refer to Section 2E, Tires and Wheels.
6. Connect the negative battery cable.

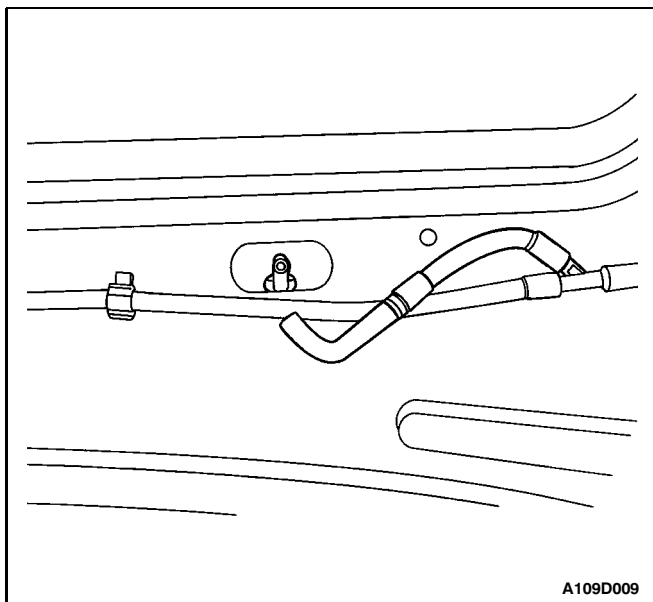


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WINDSHIELD WASHER NOZZLES

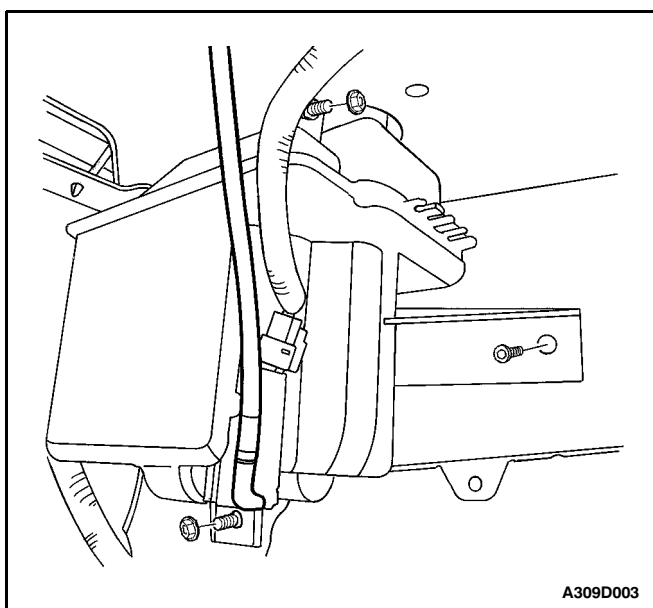
Removal Procedure

1. Open the hood.
2. Disconnect the washer hose from the nozzle.
3. Remove the nozzle from the hood.



Installation Procedure

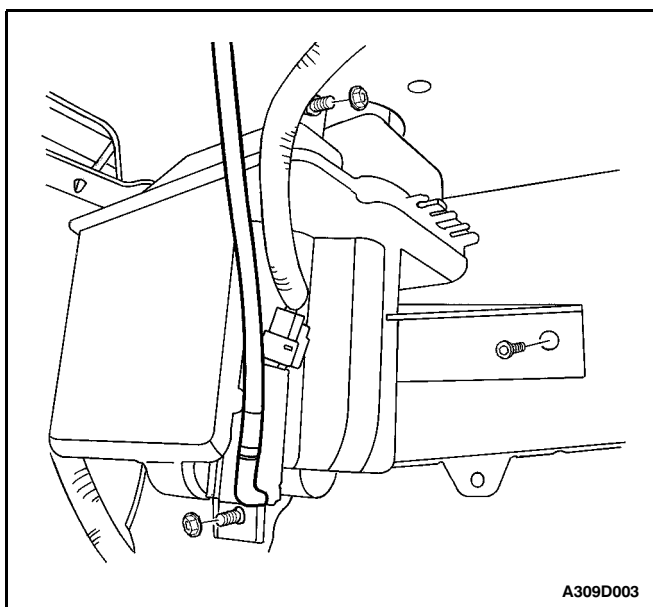
1. Install the nozzle onto the hood.
2. Connect the washer hose to the nozzle.
3. Close the hood.



WINDSHIELD WASHER HOSES

Removal Procedure

1. Open the hood.
2. Disconnect the windshield washer hose from the washer nozzles on the hood.
3. Remove the front left wheel. Refer to Section 2E, Tires and Wheels.
4. Remove the screws and the front wheel well splash shield.
5. Disconnect the washer hose from the washer reservoir.



Installation Procedure

1. Connect the washer hose to the washer reservoir.

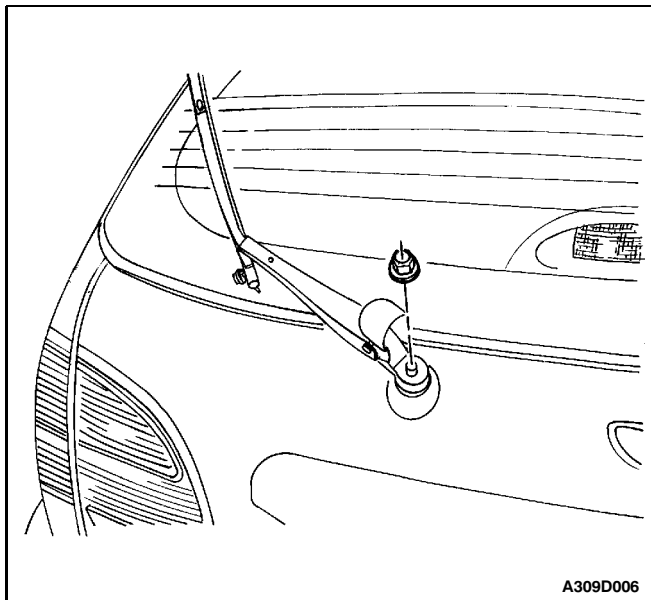
Notice: Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

2. Install the front wheel well splash shield with the screws.

Tighten

Tighten the wheel well splash shield screws to 1.5 N·m (13 lb-in).

3. Install the front left wheel. Refer to Section 2E, Tires and Wheels.
4. Connect the windshield washer hose to the washer nozzles on the hood.
5. Close the hood.

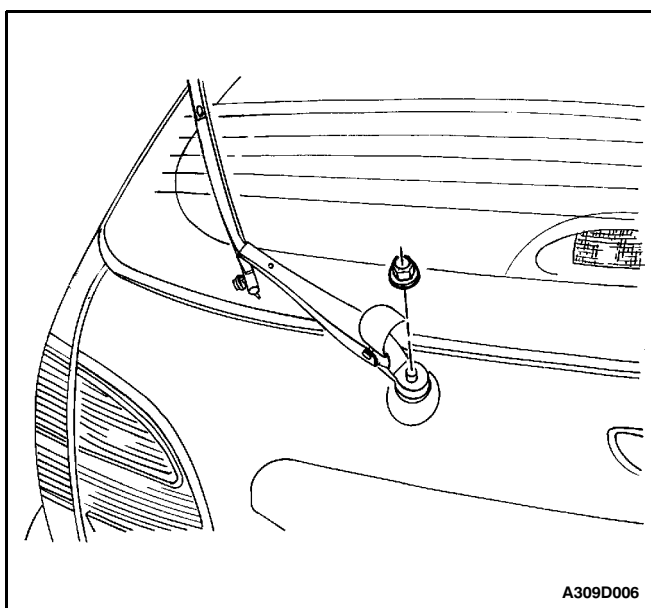


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REAR WINDOW WIPER ARM

Removal Procedure

1. Open the wiper arm access cap.
2. Remove the nut and the rear wiper arm.



A309D006

Installation Procedure

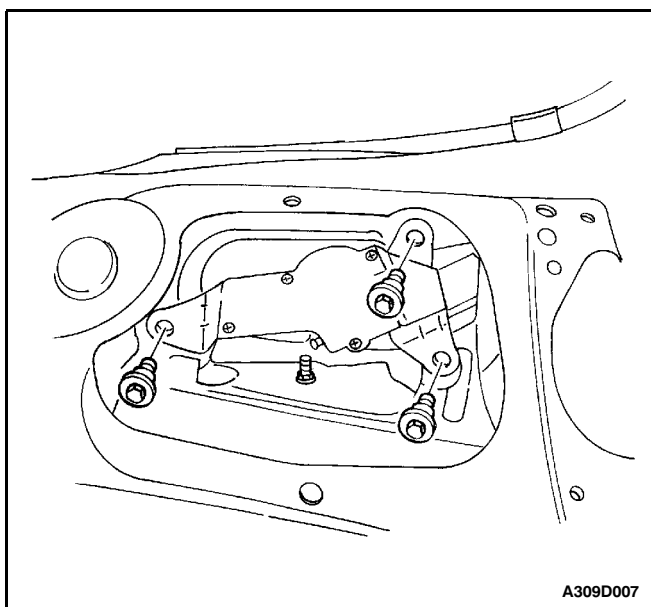
Notice: Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

1. Install the rear wiper arm with the nut.

Tighten

Tighten the wiper arm nut to 11 N•m (97 lb-in).

2. Close the wiper arm access cap.

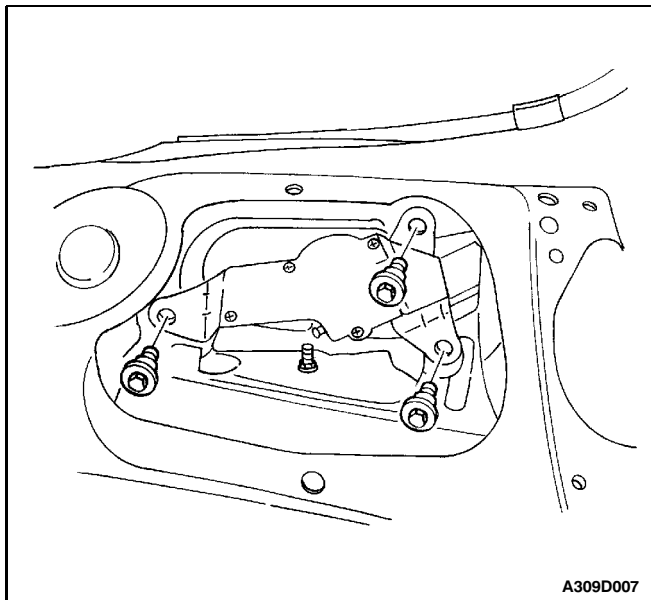


A309D007

REAR WINDOW WIPER MOTOR

Removal Procedure

1. Disconnect the negative battery cable.
2. Remove the rear window wiper arm. Refer to "Rear Window Wiper Arm" in this section.
3. Remove the hatchback door lower garnish molding. Refer to Section 9G, Interior Trim.
4. Remove the bolts and the rear wiper motor.
5. Disconnect the electrical connector.



Installation Procedure

1. Connect the electrical connector.

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

2. Install the rear wiper motor with the bolts.

Tighten

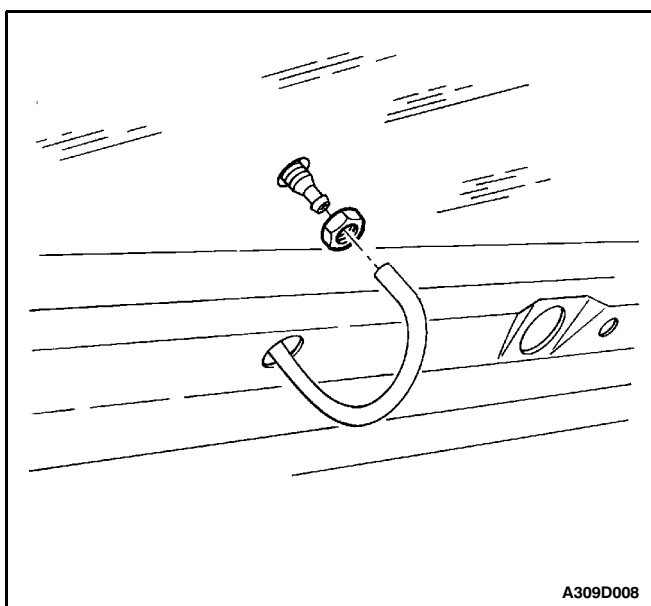
Tighten the wiper motor bolts to 9 N·m (80 lb-in).

3. Install the hatchback door lower garnish molding. Refer to Section 9G, Interior Trim.
4. Install the rear window wiper arm. Refer to "Rear Window Wiper Arm" in this section.
5. Connect the negative battery cable.

REAR WINDOW WASHER NOZZLE

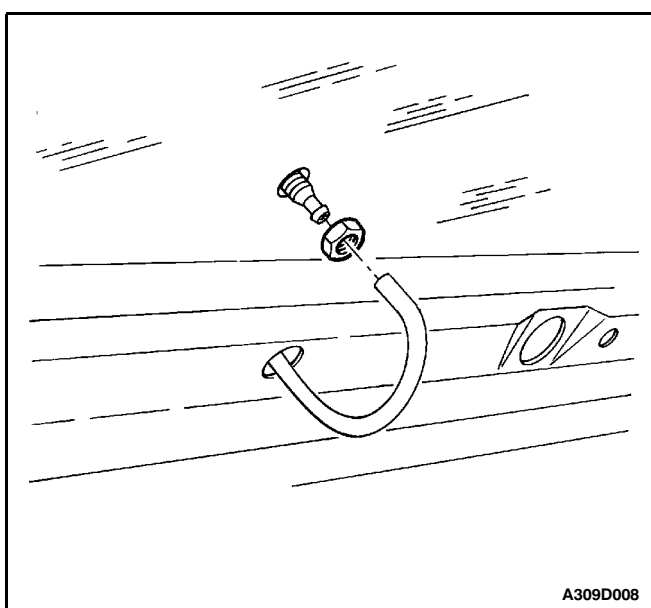
Removal Procedure

1. Remove the hatchback door upper garnish molding. Refer to Section 9G, Interior Trim.
2. Remove the washer hose from the nozzle.
3. Remove the nut and the washer nozzle.



Installation Procedure

1. Install the washer nozzle with the nut.
2. Install the washer hose to the nozzle.
3. Install the hatchback door upper garnish molding. Refer to Section 9G, Interior Trim.



GENERAL DESCRIPTION AND SYSTEM OPERATION

WINDSHIELD WIPER SYSTEM

The windshield wiper system consists of a wiper motor, a linkage, a wiper arm and a blade, and a wiper/washer switch. The windshield wiper circuit incorporates a self-parking device which consists of a worm gear and a cam plate in order to keep the circuit complete temporarily 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 two speeds, LO and HI, and also has intermittent wiper capability. The wiper switch is an integral part of the wiper/washer 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 wiper/washer switch. The windshield washer reservoir is mounted behind the front left wheel well splash shield. Attached to the reservoir is a washer pump, which pumps fluid through the hoses to the two nozzles mounted on the hood. The washer switch is an integral part of the wiper/washer switch. Windshield washer operation is actuated through the lever on the right side of the steering column.

REAR WINDOW WIPER/WASHER SYSTEM

The hatchback rear window wiper system consists of a wiper motor, a wiper arm, and a blade. The rear window wiper motor is located inside of the hatchback door and is directly connected to the rear window wiper. The hatchback rear window washer system is equipped with a separate washer fluid pump, hose, and nozzle. The rear window washer reservoir is mounted behind the front left wheel well splash shield. Attached to the reservoir is a washer pump, which pumps fluid through a hose to the nozzle mounted on the hatch.