

2001 ACCESSORIES & EQUIPMENT**Wiper/Washer Systems - Catera****DESCRIPTION & OPERATION**

WARNING: Vehicles are equipped with air bag supplemental restraint system. Before attempting any repairs involving steering column, instrument panel or related components, see **SERVICE PRECAUTIONS and DISABLING & ACTIVATING AIR BAG SYSTEM** in appropriate **AIR BAG RESTRAINT SYSTEMS** article.

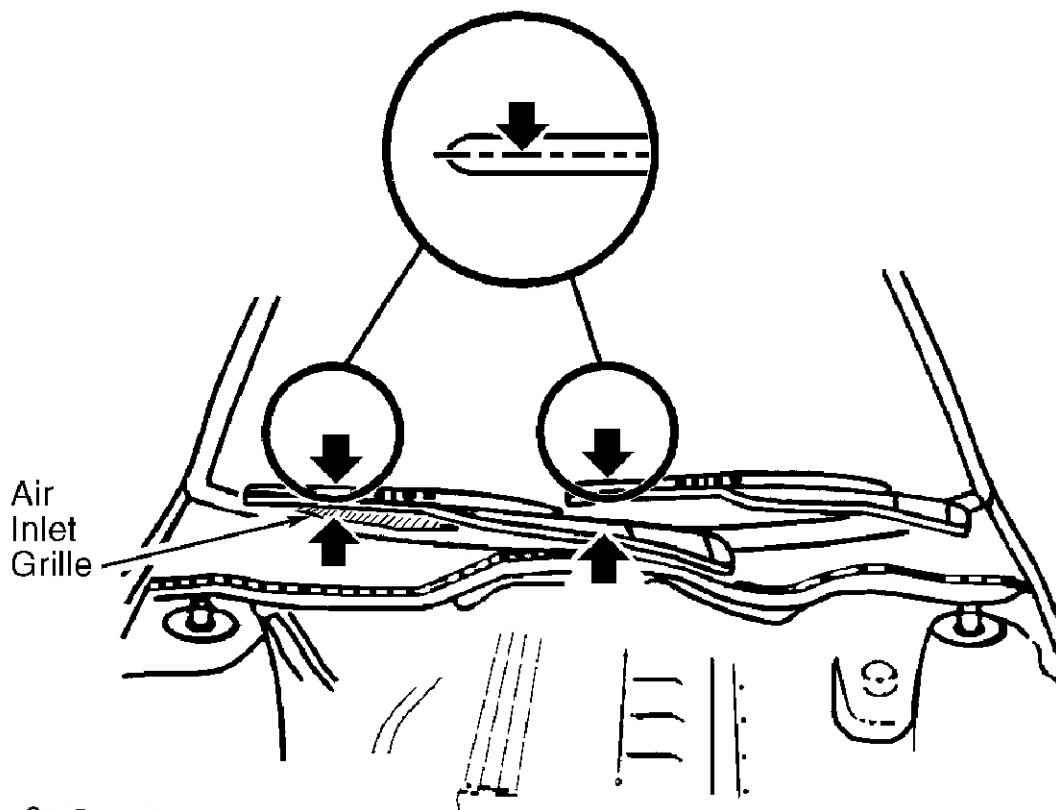
Wiper system consists of wiper transmission assembly, wiper motor, wiper/washer switch, wiper arms, wiper blades and associated wiring. System uses a 2-speed wiper motor and is equipped with a variable delay function. Wiper motor is protected by a circuit breaker with a bimetallic contact strip that opens when current is higher than normal. A washer motor is attached to the washer fluid reservoir.

On models with pulse (intermittent) system, if wiper switch is in DELAY position, an adjustable time delay occurs between sweeps.

About 20 seconds after wipers are activated, low beam headlights will be activated for added safety, and Daytime Running Lights turn off. About 20 seconds after wipers are deactivated, low beam headlights will turn off and Daytime Running Lights will reactivate.

ADJUSTMENTS**WIPER ARMS**

Ensure wiper motor is in park. Raise hood. Measure distance between wiper blade and top of air inlet grille. See **Fig. 1**. Distance should be about 2.4" (60 mm) for left wiper blade and about 2.8" (70 mm) for right wiper blade. If distance is not as specified, remove and readjust wiper arms. See **WIPER ARMS** under REMOVAL & INSTALLATION.



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Fig. 1: Measuring Wiper Arm Clearance
 Courtesy of GENERAL MOTORS CORP.

TROUBLE SHOOTING

PRELIMINARY INSPECTION

Before performing any test on wiper/washer system, check the following items to eliminate common problems:

- Check wiper/washer related fuses. See WIRING DIAGRAMS.
- Check washer reservoir level.
- Check for kinked or damaged washer hoses.
- Check for damaged washer pump.
- Check for damaged, loose or corroded connections.
- Check for damaged wiring harness.
- Ensure washer nozzles are not plugged.
- Check for binding or damaged wiper arm linkage.
- Check for good, clean tight ground connections. See WIRING DIAGRAMS.

Correct any obvious problems before continuing testing. Perform system operation check. See SYSTEM OPERATION CHECK.

SYSTEM OPERATION CHECK

1. Turn ignition switch to ON position. Turn wiper switch to HIGH position. Wipers should operate continuously at high speed. Turn wiper switch to LOW position. Wipers should operate continuously at low speed.
2. Turn wiper switch to INTERVAL position. Rotate interval switch through entire range. Wipers should make one complete cycle and then pause for 1-25 seconds before making next sweep.

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3. Turn wiper switch to OFF position. Wipers should return to Park position. Turn wiper switch to MIST position and then release. Wipers should make one complete sweep and return to Park position.
4. Hold washer switch on for less than one second. Washers should spray for about 2.5 seconds. Wipers should operate at low speed for about 6 seconds and then return to Park position. If wiper system does not function properly, perform appropriate test. See **SYMPTOM INDEX** table under SYSTEM TESTS.

WIPER ARM TIP PRESSURE CHECK

1. Operate wiper arms and stop at mid-wipe position. Remove wiper blades from wiper arms. Attach a scale to end of wiper arm. Measure force required to lift wiper arm perpendicular to windshield to normal working height (height with blade attached).
2. Replace wiper arm if measurement is not within specification. Driver side tip pressure should be 26-31 ounces and passenger side should be 19-23 ounces.

SYSTEM TESTS

NOTE: Before testing, perform system operation check. See **SYSTEM OPERATION CHECK** under TROUBLE SHOOTING.

SYMPTOM INDEX

Symptom	Perform Test
Wipers Inoperative In All Modes	<u>A</u>
Washers Always On	<u>B</u>
Washers Inoperative	<u>C</u>
Wipers Always On	<u>D</u>
Wipers Inoperative In All Modes	<u>E</u>
Wipers Do Not Operate In One Mode	<u>F</u>
Wipers Do Not Operate In One Or More Modes	<u>G</u>
Wipers Blades Do Not Park	<u>H</u>

TEST A: LOW WASHER FLUID INDICATOR MALFUNCTION

NOTE: Low washer fluid indicator is inoperative or always on.

1. Check for common problems. See **PRELIMINARY INSPECTION** under TROUBLE SHOOTING. Repair as necessary. When inspection is completed, go to next step.
2. Verify washer fluid container is more than half full. Turn ignition on. If low washer fluid indicator illuminates for about 3 seconds and turns off, check for intermittent and poor connections. If low washer fluid indicator does not illuminate for about 3 seconds and turn off, go to next step.
3. If low washer fluid indicator remains illuminated with ignition on, go to step 7 . If low washer fluid indicator does not remain illuminated with ignition on, go to next step.
4. Turn ignition off. Disconnect washer fluid level switch connector. Turn ignition on. If low washer fluid indicator remains illuminated with ignition on, go to step 10 . If low washer fluid indicator does not remain illuminated with ignition on, go to next step.
5. Check Brown/Yellow wire for a short to ground between instrument panel and windshield washer solvent level switch. Repair as necessary. When repairs are complete, go to step 12 . If no problem is found, go to next step.
6. Check low washer fluid indicator bulb for an open. Replace bulb if necessary. When repairs are complete, go to step 12 . If bulb is okay, go to step 11 .
7. Turn ignition off. Disconnect washer fluid level switch connector. Connect a fused jumper wire between

ground and washer fluid level switch connector terminal "B" (Brown/Yellow wire). Turn ignition on. If low washer fluid indicator illuminates for about 3 seconds and turns off, go to step 9 . If low washer fluid indicator does not illuminate for about 3 seconds and turns off, go to next step.

8. Check Brown/Yellow wire for an open or high resistance between instrument panel and washer fluid level switch connector terminal "B". Repair as necessary. When repairs are completed, go to step 12 . If no problem is found, go to step 11 .
9. Check Black wire for an open or high resistance between washer fluid level switch and ground connection located in engine compartment, behind battery. Repair as necessary. When repairs are completed, go to step 12 . If no problem is found, go to next step.
10. Replace windshield washer fluid level switch. When repairs are completed, go to step 12 .
11. Replace Instrument Panel Cluster (IPC). See ANALOG INSTRUMENT PANELS - CATERA article. When repairs are completed, go to next step.
12. Operate wiper/washer system to verify proper system operation. If wiper/washer system operates properly, system is okay. If wiper/washer system does not operate properly, go to step 2 .

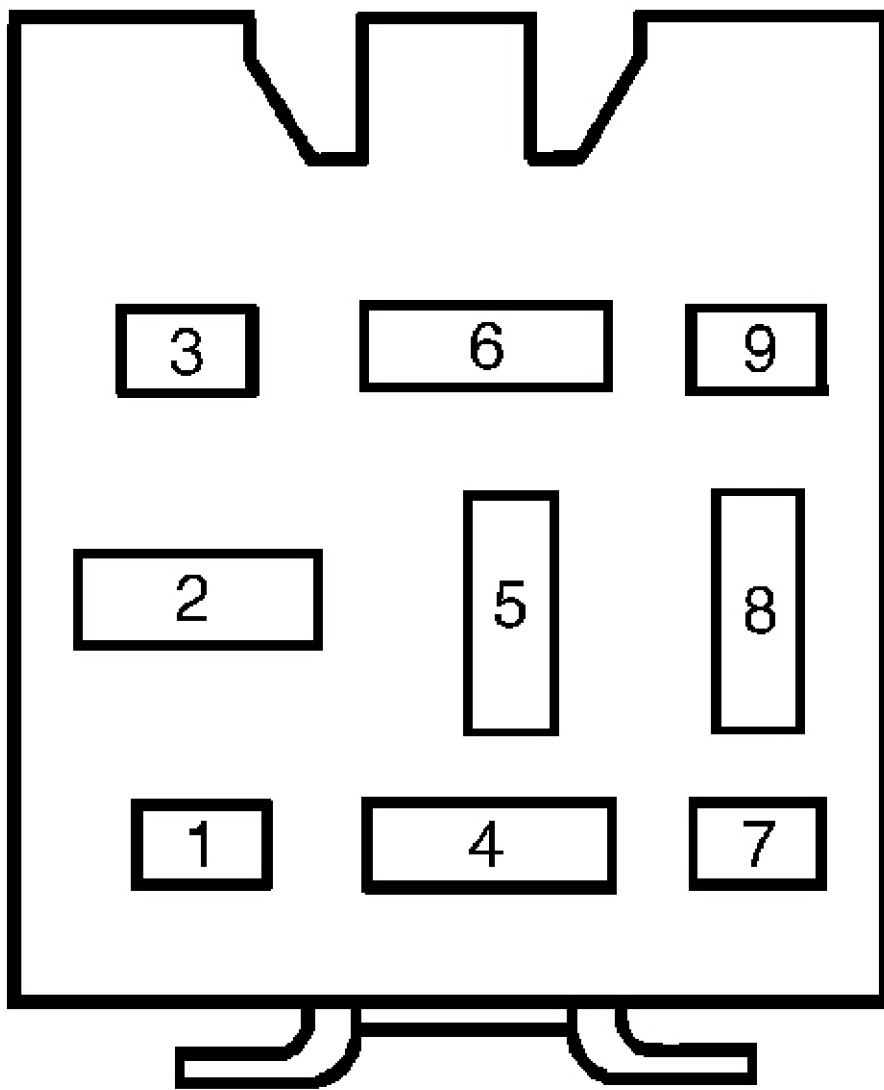
TEST B: WASHERS ALWAYS ON

1. Check for common problems. See **PRELIMINARY INSPECTION** under TROUBLE SHOOTING. Repair as necessary. When inspection is completed, go to next step.
2. Turn ignition on. Turn wiper/washer switch to off position. If washers are operating, go to next step. If washers are not operating, check for intermittent and poor connections. See **WIRING DIAGRAMS** . Repair as necessary.
3. Disconnect wiper/washer switch. Turn ignition on. If washers are operating, go to next step. If washers are not operating, go to step 5 .
4. Repair short to battery voltage in Black/Red wire between washer switch and washer pump. See **WIRING DIAGRAMS** . When repairs are complete, go to step 6 .
5. Replace wiper/washer switch. See **WIPER/WASHER SWITCH** under REMOVAL & INSTALLATION. When repairs are complete, go to next step.
6. Operate wiper/washer system to verify proper system operation. If wiper/washer system operates properly, system is okay. If wiper/washer system does not operate properly, go to step 3 .

TEST C: WASHERS INOPERATIVE

1. Check for common problems. See **PRELIMINARY INSPECTION** under TROUBLE SHOOTING. Repair as necessary. When inspection is completed, go to next step.
2. Turn ignition on. Pull and release windshield wiper/washer switch lever. If windshield washers operate normally, check for intermittent and poor connections. See **WIRING DIAGRAMS** . Repair as necessary. If windshield washers do not operate normally, go to next step.
3. If windshield wipers operate normally during wash mode, go to step 8 . If windshield wipers do not operate normally during wash mode, go to next step.
4. Turn ignition off. Disconnect wiper motor relay. Connect a test light between ground and wiper motor relay connector terminal No. 6 (Black/Red wire). See **Fig. 2** . See **WIRING DIAGRAMS** . Turn ignition on. Pull windshield washer lever to wash position. If test light illuminates, go to step 7 . If test light does not illuminate, go to next step.
5. Disconnect wiper/washer switch connector. Check Black/Red wire for an open or high resistance between wiper/washer switch connector terminal No. 3 and wiper motor relay connector relay terminal No. 6. Repair as necessary. When repairs are completed, go to step 12 . If no problems are found, go to next step.
6. Replace wiper/washer switch. See **WIPER/WASHER SWITCH** under REMOVAL & INSTALLATION. When repairs are completed, go to step 12 .
7. Replace wiper motor relay. When repairs are completed, go to step 12 .

8. Turn ignition off. Disconnect washer pump connector located in washer solvent reservoir. Connect a test light between ground and wiper/washer switch connector terminal No. 3 (Black/Red wire). See **WIRING DIAGRAMS** . Turn ignition on. Pull windshield wiper washer switch to wash position. If test light illuminates, go to step 10 . If test light does not illuminate, go to next step.
9. Repair Black/Red wire for an open or high resistance between wiper/washer switch connector terminal No. 3 and washer pump connector terminal No. 1. When repairs are completed, go to step 12 .
10. Check Black wire for an open or high resistance between washer pump connector terminal No. 2 and ground connection located in engine compartment, behind battery. See **WIRING DIAGRAMS** . Repair as necessary. When repairs are completed, go to step 12 . If no problems are found, go to next step.
11. Replace washer pump. See **WASHER PUMP** under REMOVAL & INSTALLATION. When repair is complete, go to next step.
12. Operate wiper/washer system to verify proper system operation. If wiper/washer system operates properly, system is okay. If wiper/washer system does not operate properly, go to step 3 .



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Fig. 2: Identifying Wiper Motor Relay Connector Terminals
Courtesy of GENERAL MOTORS CORP.

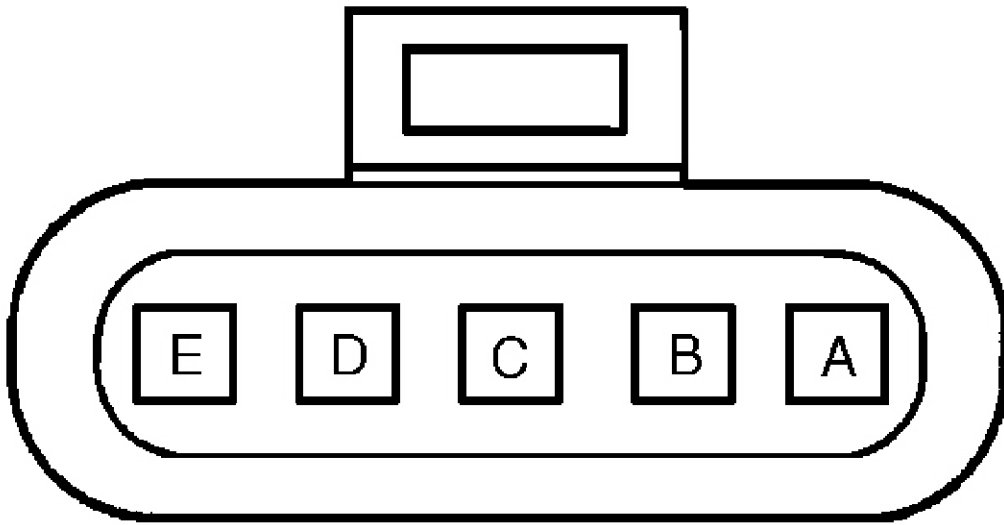
TEST D: WIPERS ALWAYS ON

1. Check for common problems. See **PRELIMINARY INSPECTION** under TROUBLE SHOOTING. Repair as necessary. When inspection is completed, go to next step.
2. Turn wiper/washer switch to off position. Turn ignition on. If wipers are operating, go to next step. If wipers are not operating, check for intermittent and poor connections. See **WIRING DIAGRAMS** . Repair as necessary.
3. Turn ignition off. Disconnect wiper motor relay. Ensure wiper/washer switch is in off position. Turn ignition on. If wipers are not operating, go to next step. If wipers are operating, go to step 9 .
4. Connect a test light between battery voltage and wiper motor relay connector terminal No. 5 (Green wire). Turn ignition on. Turn wiper switch to low speed position. If test light does not flash every time wiper arms are in park position, go to next step. If test light flashes every time wiper arms are in park position, go to next step 6 .
5. Check Green wire for an open, high resistance or short to battery voltage between wiper motor relay connector terminal No. 5 and wiper motor connector terminal "C". See **WIRING DIAGRAMS** . Repair as necessary. When repairs are completed, go to step 15 . If no problem is found, go to step 14 .
6. Turn ignition off. Disconnect delay wipers interval switch connector. Install wiper motor relay. Turn ignition on. If wipers do not operate, go to next step. If wipers operate, go to step 8 .
7. Check Black/Yellow wire for a short to battery voltage between interval switch connector terminal No. 4 and wiper motor relay connector terminal No. 1. See **WIRING DIAGRAMS** . Repair as necessary. When repairs are completed, go to step 15 . If no problem is found, go to step 12 .
8. Check Black/White wire for a short to battery voltage between wiper/washer switch connector terminal No. 9 and interval switch connector terminal No. 6. See **WIRING DIAGRAMS** . Repair as necessary. When repairs are completed, go to step 15 . If no problem is found, go to step 13 .
9. Disconnect wiper/washer switch connector. If wipers stop operating, go to next step. If wipers do not stop, go to step 11 .
10. Repair Blue wire for a short to battery voltage between wiper motor relay connector terminal No. 2 and wiper/washer switch connector terminal No. 8. Repair as necessary. When repairs are completed, go to step 15 .
11. Check Yellow wire for a short to battery voltage between wiper/washer switch connector terminal No. 5 and wiper motor connector terminal "C". Check White wire for a short to battery voltage between wiper/washer switch connector terminal No. 2 and wiper motor connector terminal "E". See **WIRING DIAGRAMS** . Repair as necessary. When repairs are completed, go to step 15 . If no problem is found on both circuits, go to next step.
12. Replace wiper/washer switch. See **WIPER/WASHER SWITCH** under REMOVAL & INSTALLATION. When repairs are completed, go to step 15 .
13. Replace windshield wiper motor relay. When repairs are completed, go to step 15 .
14. Replace wiper motor. See **WIPER MOTOR** under REMOVAL & INSTALLATION. When repairs are completed, go to next step.
15. Operate wiper/washer system to verify proper system operation. If wiper/washer system operates properly, system is okay. If wiper/washer system does not operate properly, go to step 3 .

TEST E: WIPERS INOPERATIVE IN ALL MODES

1. Check for common problems. See **PRELIMINARY INSPECTION** under TROUBLE SHOOTING. Repair as necessary. When inspection is completed, go to next step.
2. Turn ignition on. Operate windshield wiper/washer switch through all switch positions. If windshield wiper/washer system operates normal, check for intermittent and poor connections. See **WIRING DIAGRAMS** . Repair as necessary. If no problems are found, go to next step.
3. Disconnect wiper motor connector. Connect a test light between ground and wiper motor connector terminal

- "E" (White wire). See **Fig. 3** . Turn ignition on. Turn wiper/washer switch to high speed position. If test light illuminates, go to next step. If test light does not illuminate, go to step 5 .
4. Check Black wire for an open or high resistance between wiper motor connector terminal "B" and ground connection located in engine compartment, behind battery. See **WIRING DIAGRAMS** . Repair as necessary. When repairs are completed, go to step 9 . If no problem is found, go to step 8 .
 5. Disconnect wiper/washer switch connector. Connect a test light between ground and wiper/washer switch connector terminal No. 4 (Black/Purple wire). Turn ignition switch to ON position. See **Fig. 4** . If test light illuminates, go to step 7 . If test light does not illuminate, go to next step.
 6. Repair open in Black/Purple wire between wiper switch connector terminal No. 4 and instrument panel fuse block, located on lower left of steering column. See **WIRING DIAGRAMS** . When repair is completed, go to step 9 .
 7. Replace wiper/washer switch. See **WIPER/WASHER SWITCH** under REMOVAL & INSTALLATION. When repair is completed, go to step 9 .
 8. Replace wiper motor. See **WIPER MOTOR** under REMOVAL & INSTALLATION. When repair is complete, go to next step.
 9. Operate wiper/washer system to verify proper system operation. If wiper/washer system operates properly, system is okay. If wiper/washer system does not operate properly, go to step 3 .



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Fig. 3: Identifying Wiper Motor Connector Terminals
Courtesy of GENERAL MOTORS CORP.

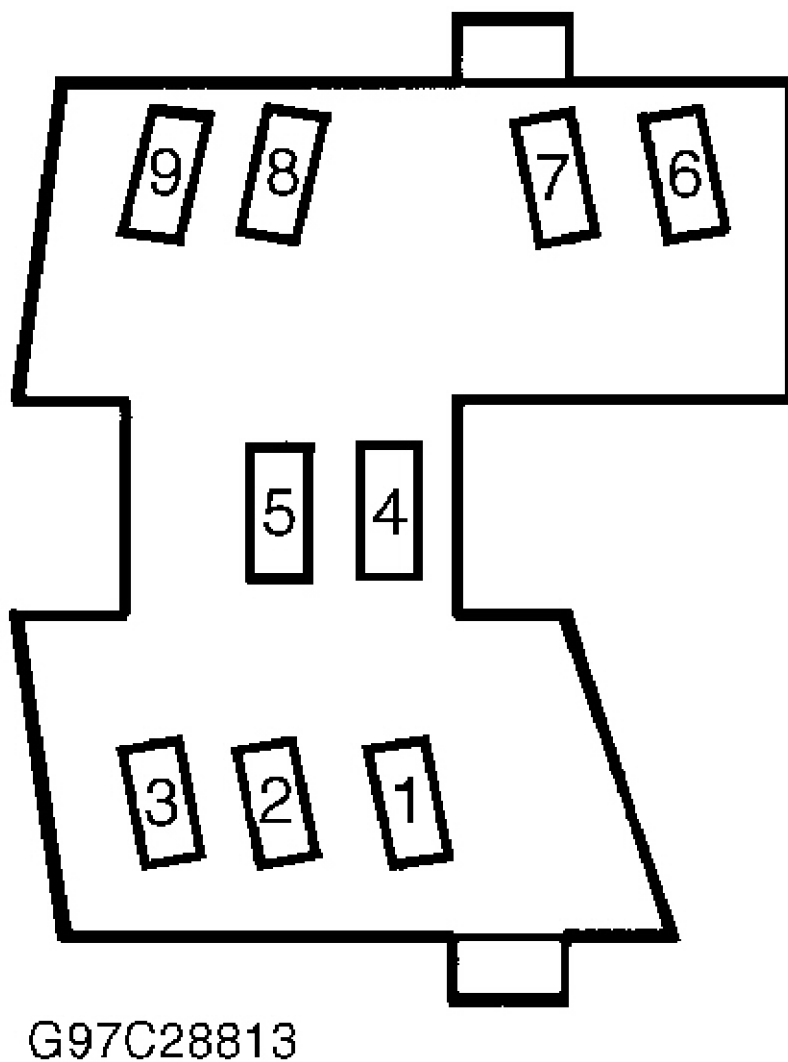


Fig. 4: Identifying Wiper/Washer Switch Connector Terminals
Courtesy of GENERAL MOTORS CORP.

TEST F: WIPERS DO NOT OPERATE IN ONE MODE

NOTE: Windshield wipers are inoperative at high speed only.

1. Check for common problems. See **PRELIMINARY INSPECTION** under TROUBLE SHOOTING. Repair as necessary. When inspection is completed, go to next step.
2. Turn ignition on. Turn wiper/washer switch to high speed position. If high speed wipers operate normally, check for intermittent and poor connections. Repair as necessary. If high speed wipers do not operate normally, go to next step.
3. Turn ignition off. Disconnect wiper motor connector. Connect a test light between ground and wiper motor connector terminal "E" (White wire). See **WIRING DIAGRAMS** . Turn ignition on. Turn wiper/washer switch to high speed position. If test light illuminates, go to step 6 . If test light does not illuminate, go to next step.
4. Check White wire for an open or high resistance between wiper motor terminal "E" and wiper/washer switch connector terminal No. 2. See **Fig. 3** . Repair as necessary. When repairs are completed, go to step 7 . If no problems are found, go to next step.
5. Replace wiper/washer switch. See **WIPER/WASHER SWITCH** under REMOVAL & INSTALLATION.

When repairs are completed, go to step 7 .

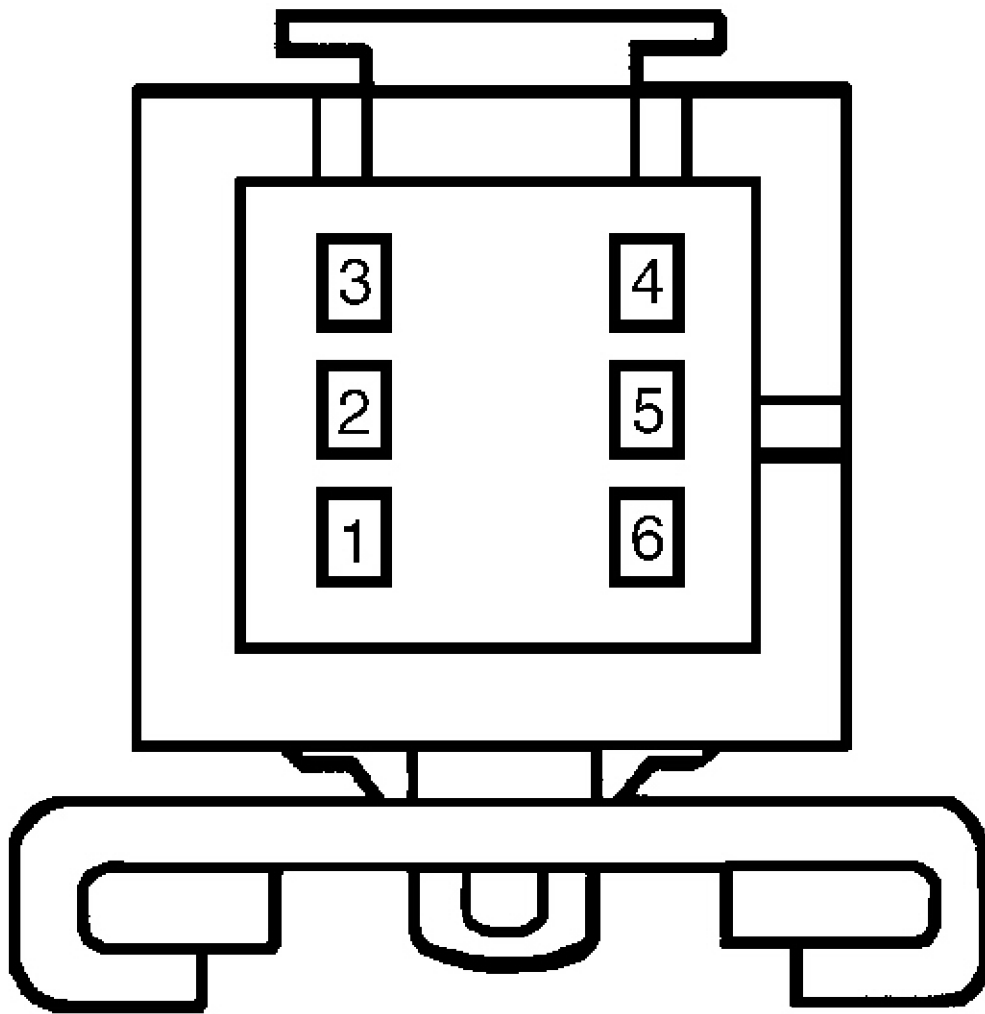
6. Replace wiper motor. See **WIPER MOTOR** under REMOVAL & INSTALLATION. When repairs are completed, go to next step
7. Operate wiper/washer system to verify proper system operation. If wiper/washer system operates properly, system is okay. If wiper/washer system does not operate properly, go to step 3 .

TEST G: WIPERS DO NOT OPERATE IN ONE OR MORE MODES

NOTE: Delay and mist are inoperative, wipers may not park, and low speed wipers may be inoperative.

1. Check for common problems. See **PRELIMINARY INSPECTION** under TROUBLE SHOOTING. Repair as necessary. When inspection is completed, go to next step.
2. Turn ignition on. Turn wiper/washer switch to high speed position. If high speed wipers operate normally, check for intermittent and poor connections. Repair as necessary. If high speed wipers do not operate normally, go to next step.
3. Turn ignition on. Turn wiper switch to low speed position. If wipers operate at low speed, go to next step. If wipers do not operate at low speed, go to step 11 .
4. Turn wiper switch to off position. If wipers park, go to next step. If wipers do not park, go to step 9 .
5. Remove WIPER fuse No. 9 (30-amp). Remove wiper motor relay. Measure resistance between WIPER fuse (Black/Purple wire) in fuse block and wiper motor relay connector terminal No. 1 (Black/Yellow wire). See **WIRING DIAGRAMS** . Turn wiper switch to delay position. Rotate interval switch through its full range. If resistance is 680-5000 ohms, go to step 15 . If resistance is not 680-5000 ohms, go to next step.
6. Disconnect interval switch connector. Measure resistance between interval switch terminals No. 4 and 6. See **Fig. 5** . Rotate interval switch through its full range. If resistance is 680-5000 ohms, go to next step. If resistance is not 680-5000 ohms, go to step 16 .
7. Check Black/White wire for an open or high resistance between wiper/washer switch connector terminal No. 9 and interval switch connector terminal No. 6. See **WIRING DIAGRAMS** . Repair as necessary. When repairs are completed, go to step 18 . If no problem was found, go to next step.
8. Check Black/Yellow wire for an open or high resistance between interval switch connector terminal No. 4 and wiper motor relay connector terminal No. 1. See **WIRING DIAGRAMS** . Repair as necessary. When repairs are completed, go to step 18 . If no problem was found, go to step 16 .
9. Turn ignition off. Remove wiper motor relay. Disconnect wiper motor connector. Measure resistance between wiper motor relay connector terminal No. 2 (Blue wire) and wiper motor connector terminal "A" (Yellow wire). Turn wiper switch to off position. If resistance is 0-2 ohms, go to step 13 . If resistance is not 0-2 ohms, go to next step.
10. Check Blue wire for an open or high resistance between wiper/washer switch and wiper motor relay. See **WIRING DIAGRAMS** . Repair as necessary. When repairs are completed, go to step 18 . If no problem was found, go to step 16 .
11. Disconnect wiper motor connector. Connect a test light between ground and wiper motor connector terminal "A" (Yellow wire). Turn ignition on. Turn wiper switch to low speed position. If test light illuminates, go to step 17 . If test light does not illuminate, go to next step.
12. Check Yellow wire for an open or high resistance between wiper motor connector terminal "A" and wiper/washer switch connector terminal No. 5. Repair as necessary. When repairs are completed, go to step 18 . If no problem was found, go to step 16 .
13. Check Black/Purple wire for an open or high resistance between wiper motor relay connector terminal No. 8 and WIPER fuse No. 9 (30-amp). Repair as necessary. When repairs are completed, go to step 18 . If no problem was found, go to next step.
14. Check Black wire for an open or high resistance between wiper motor relay connector terminal No. 4 and ground connection located in engine compartment, behind battery. See **WIRING DIAGRAMS** . Repair as

- necessary. When repairs are completed, go to step 18 . If no problem was found, go to next step.
15. Replace wiper motor relay. When repairs are completed, go to step 18 .
 16. Replace windshield wiper/washer switch. See **WIPER/WASHER SWITCH** under REMOVAL & INSTALLATION. When repairs are completed, go to step 18 .
 17. Replace windshield wiper motor. See **WIPER MOTOR** under REMOVAL & INSTALLATION. When repairs are completed, go to next step.
 18. Operate wiper/washer system to verify proper system operation. If wiper/washer system operates properly, system is okay. If wiper/washer system does not operate properly, go to step 3 .



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Fig. 5: Identifying Interval Switch Connector Terminals
Courtesy of GENERAL MOTORS CORP.

TEST H: WIPERS BLADES DO NOT PARK

1. Check for common problems. See **PRELIMINARY INSPECTION** under TROUBLE SHOOTING. Repair as necessary. When inspection is completed, go to next step.
2. Turn ignition on. Turn wiper/washer switch to low speed position. Turn windshield wiper/washer switch to off position. If wiper arms return to park position and stop, check for intermittent and poor connections. Repair as necessary. If wiper arms do not return to park position and stop, go to next step.

3. Turn ignition off. Disconnect wiper motor relay. Connect a test light from battery voltage to wiper motor relay connector terminal No. 5 (Green wire). Turn ignition on. Turn wiper/washer switch to low speed position. If test light only illuminates when wiper arms are in park position, go to next step. If test light does not only illuminate when wiper arms are in park position, go to step 5 .
4. Replace wiper motor relay. When repair is completed, go to step 6 .
5. Replace wiper motor. See **WIPER MOTOR** under REMOVAL & INSTALLATION. When repair is completed, go to next step.
6. Operate wiper/washer system to verify proper system operation. If wiper/washer system operates properly, system is okay. If wiper/washer system does not operate properly, go to step 3 .

REMOVAL & INSTALLATION

WARNING: Vehicles are equipped with air bag supplemental restraint system. Before attempting ANY repairs involving steering column, instrument panel or related components, see SERVICE PRECAUTIONS and DISABLING & ACTIVATING AIR BAG SYSTEM in appropriate AIR BAG RESTRAINT SYSTEMS article.

CAUTION: When battery is disconnected, vehicle computer and memory systems may lose memory data. Driveability problems may exist until computer systems have completed a relearn cycle. See COMPUTER RELEARN PROCEDURES article in GENERAL INFORMATION before disconnecting battery.

WASHER PUMP

Removal & Installation

Remove 4 screws from top of front bumper grille. Carefully remove grille. Disconnect washer pump connector. Remove pump from washer reservoir. Remove pump filter. Check condition of pump filter. Clean or replace filter as necessary. To install, reverse removal procedure.

WIPER ARMS

Removal & Installation

Open hood. Ensure wipers are in Park position. Remove cap from wiper arm retaining nut. Remove wiper arm nut and wiper arm. To install, reverse removal procedure. Ensure wiper arms are correctly positioned. See **WIPER ARMS** under ADJUSTMENTS.

WIPER MOTOR

Removal & Installation

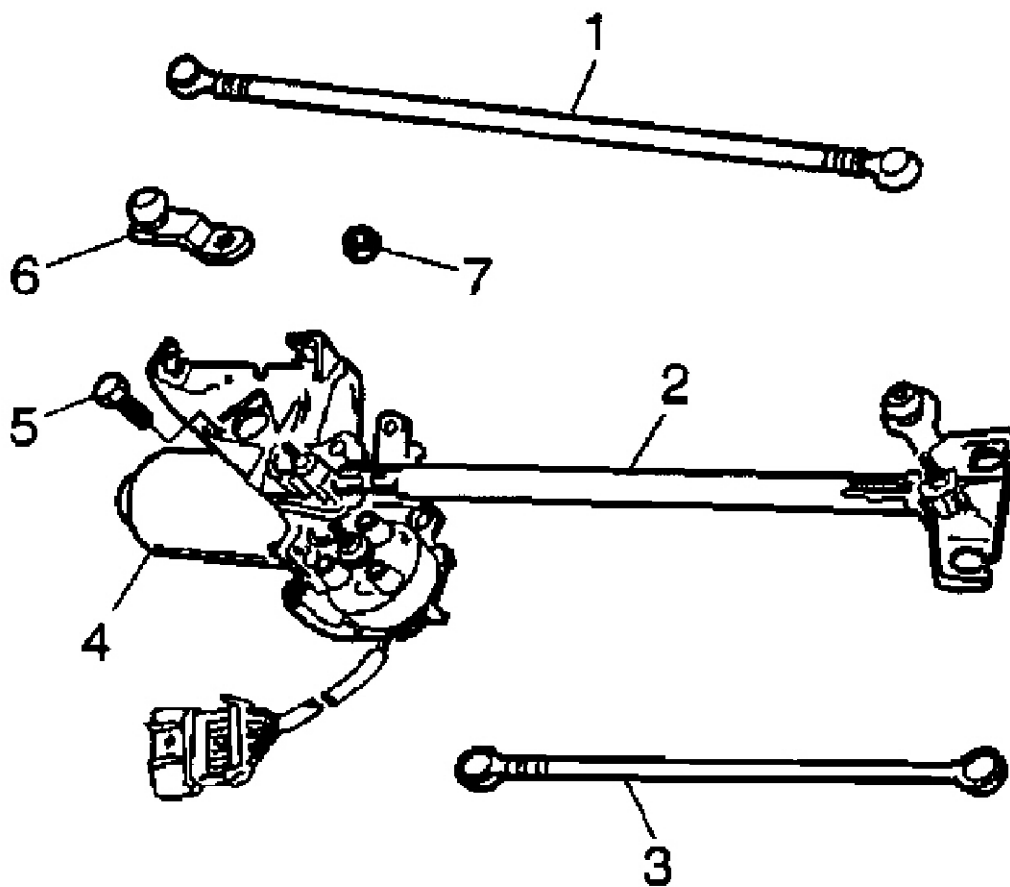
Wiper motor and wiper motor linkage must be removed as an assembly. See **WIPER MOTOR TRANSMISSION (LINKAGE ASSEMBLY)** .

WIPER MOTOR TRANSMISSION (LINKAGE ASSEMBLY)

Removal & Installation

1. Open hood. Disconnect negative battery cable. Remove air inlet grilles. Remove 2 support bracket screws from air inlet grille. Lift up windshield glass seal in to expose screws. Remove power brake booster vacuum hose.
2. Unclip knock sensor and fuel injection harness from engine lift bracket. Disconnect wiper motor wiring

- harness connector. Remove wiper transmission upper link from crank arm. See **Fig. 6** . Remove transmission screws. Remove wiper transmission and wiper motor. Remove wiper motor crank arm nut.
- Remove crank arm. Remove transmission lower link from wiper transmission. Remove wiper motor bracket bolts from wiper transmission. Remove wiper motor from wiper transmission.
 - To install, reverse removal procedure. Tighten mounting nuts and screws to specification. See **TORQUE SPECIFICATIONS** . Ensure wiper arms are positioned correctly. See **WIPER ARMS** under **ADJUSTMENTS**. Reconnect negative battery cable.



- Upper Link
- Wiper Transmission Assembly
- Transmission Lower Link
- Wiper Motor
- Motor Bracket Bolt
- Motor Crank Arm
- Crank Arm Nut

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Fig. 6: Locating Wiper Transmission Assembly Components
Courtesy of GENERAL MOTORS CORP.

WIPER/WASHER SWITCH

Removal & Installation

- Set front wheels in straight-ahead position. Turn ignition switch to LOCK position. Deactivate air bag system

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and remove air bag module. See appropriate AIR BAG RESTRAINT SYSTEMS article.

2. Mark steering wheel hub in relation to steering shaft for installation reference. Remove steering wheel nut. Using Steering Wheel Puller (J-1859-03) with Side Screws (J-38720), remove steering wheel. Remove steering wheel puller. Remove upper steering column cover. Carefully unscrew steering wheel tilt lever. Remove protective cover from lock cylinder. Remove lower steering column cover. Depress tabs and remove wiper switch. To install, reverse removal procedure.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS

Application	INCH Lbs. (N.m)
Crank Arm Nut	120 (14)
Wiper Arm Nuts	120 (14)
Wiper Motor Bracket Bolts	35 (4)
Wiper Solvent Container Screws	89 (10)
Wiper Support Bracket Screws	35 (4)
Wiper Transmission Screws	35 (4)

WIRING DIAGRAMS

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Fig. 7: Wiper/Washer System Wiring Diagram (Catera)

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