

2001 ACCESSORIES & EQUIPMENT**Rear Window & Mirror Defoggers - Catera****DESCRIPTION & OPERATION**

CAUTION: To prevent damaging heating element, DO NOT scrape or apply decals to inside of rear window.

Rear window and mirror defogger system consists of rear defogger switch which is part of heating ventilation air conditioning (HVAC) control head, heated outside rearview mirror/rear window defogger relay, rear defogger grid and heated mirrors. Rear window has a number of horizontal ceramic silver compound element lines and 2 vertical bus bars baked into inside surface during glass forming operation. Power wire for terminal is soldered to bus bar on left side of defogger grid. Ground wire for terminal is soldered to bus bar on right side of defogger grid and is grounded by radio antenna amplifier. Under some conditions, heat from window may not be detected by finger touch. Length of time required to remove fog from inside rear window will vary with vehicle speed, outside temperature of window, atmospheric pressure and number of passengers.

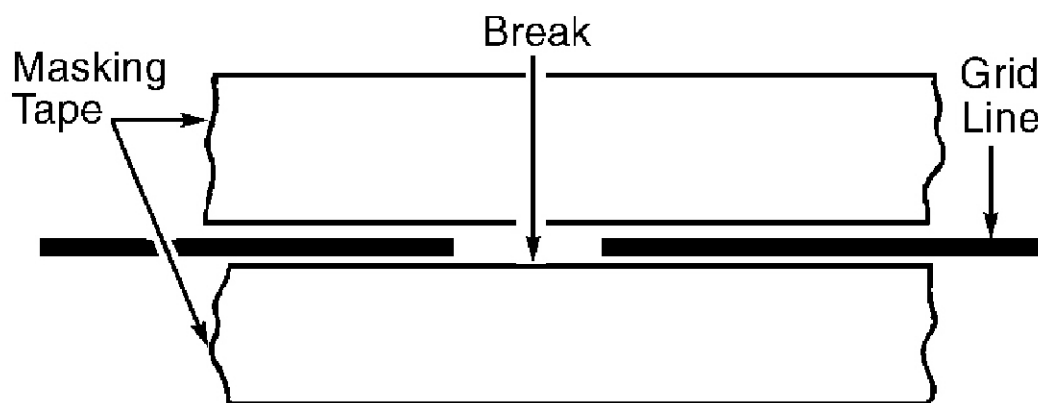
A button with an integral indicator light which is part of HVAC control head is used to turn system on and off. Indicator light will remain on while defoggers are operating. The system has a 15 minute timer and will automatically turn off. System can be turned off at any time by depressing rear defogger button or turning ignition off.

COMPONENT LOCATIONS**COMPONENT LOCATIONS**

Component	Location
Data Link Connector (DLC)	Under Left Side Of Instrument Panel, Near Steering Column
Instrument Panel Fuse Block	Below Left Side Of Instrument Panel, Left Of Steering Column
Instrument Panel Relay Block	Below Left Side Of Instrument Panel, Right Of Steering Column
Radio Antenna Amplifier	On Top Of Rear Deck, Under Rear Window Trim Panel
Rear Defogger/Heated Mirror Relay	In Instrument Panel Relay Block

ON-VEHICLE SERVICE**GRID FILAMENT REPAIR**

1. To repair grid, turn ignition off and disconnect negative battery cable. Gently clean area to be repaired with fine steel wool. Wipe area clean with isopropyl alcohol. Be sure to clean 1/4" (6 mm) beyond each side of break.
2. With glass at room temperature of 70-90°F (20-32°C), position masking tape along both sides of grid line at damaged area. See **Fig. 1**. Apply grid repair material to grid and carefully remove masking tape. Holding heat gun 1" (25 mm) from repair area, apply heat at a minimum of 500°F (260°C) for 2-3 minutes. If heat gun is not available, allow repair area to air dry for at least 24 hours at an ambient temperature of 70-90°F (20-32°C).
3. Test defogger operation to verify repair. If repair appears discolored, apply a coating of tincture of iodine. Allow iodine to dry for 30 seconds and carefully wipe off excess using lint-free cloth.



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Fig. 1: Repairing Grid LineCourtesy of **GENERAL MOTORS CORP.**

TROUBLE SHOOTING

Check RR WDO DEFOG fuse No. 34 (40-amp), CLAMP 15 fuse No. 14 (10-amp) and HTD MIRROR fuse No. 11 (10-amp), all located in instrument panel fuse block. See **COMPONENT LOCATIONS** . Ensure ground connections are clean and tight. See **WIRING DIAGRAMS** . Check for proper installation of aftermarket electronic equipment. Repair as necessary. If problem still exists, perform appropriate test. See **SYMPTOM INDEX** table under SYSTEM TESTS. If no problem is found, perform self-diagnostics. See **SELF-DIAGNOSTIC SYSTEM** .

SELF-DIAGNOSTIC SYSTEM

RETRIEVING DIAGNOSTIC TROUBLE CODES

Connect scan tool to Data Link Connector (DLC). See **COMPONENT LOCATIONS** . Using scan tool, attempt to establish communication with Heating Ventilation Air Conditioning (HVAC) system and driver memory seat module. Check for any Diagnostic Trouble Codes (DTC) stored in HVAC system and driver memory seat module memory which may lead to misdiagnosis of rear defogger/heated mirror system. If scan tool does not communicate with HVAC system and driver memory seat module, see TEST C: SCAN TOOL DOES NOT COMMUNICATE WITH KEYWORD DATA LINE under SYSTEM TESTS in BODY CONTROL MODULES - CATERA article. If any DTCs are stored, perform appropriate test. See **DIAGNOSTIC TROUBLE CODE DEFINITION** . If no DTCs exist, repair by symptom. See **SYSTEM TESTS** .

DIAGNOSTIC TROUBLE CODE DEFINITION

DIAGNOSTIC TROUBLE CODE DEFINITION

DTC (1)	Description
DTC 032	Rear Window Defogger Signal Voltage Low
DTC 033	Rear Window Defogger Signal Voltage Open Circuit
DTC 034	Rear Window Defogger Open Circuit

(1) Codes listed in this table are only for testing covered in this article. For complete DTC listing, see BODY CONTROL MODULES - CATERA article.

CLEARING DIAGNOSTIC TROUBLE CODES

Connect scan tool to Data Link Connector (DLC). See **COMPONENT LOCATIONS** . Follow instructions on scan tool to clear Diagnostic Trouble Codes (DTC).

STATIONARY WINDOWS DIAGNOSTIC SYSTEM CHECK

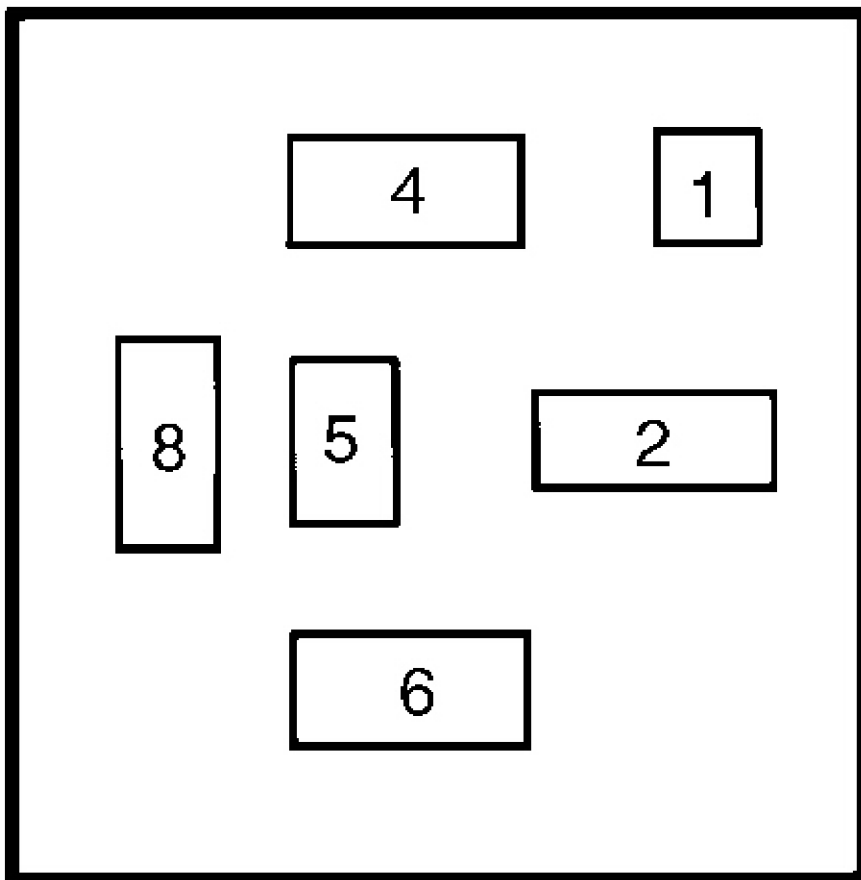
NOTE: Lack of communication may be due to a malfunction of the class 2 serial data circuit. The specified procedure will determine the particular condition. The following steps will determine the correct diagnostic procedure to use.

1. Connect a scan tool. If scan tool powers up, go to next step. If scan tool does not power up, see TEST B: SCAN TOOL DOES NOT POWER UP under SYSTEM TESTS in BODY CONTROL MODULES - CATERA article.
2. Turn ignition on. Attempt to communicate with HVAC control head and memory seat module. If scan tool communicates with each module, go to next step. If scan tool does not communicate with both control modules, see TEST C: SCAN TOOL DOES NOT COMMUNICATE WITH KEYWORD DATA LINE under SYSTEM TESTS in BODY CONTROL MODULES - CATERA article.
3. Select DISPLAY DTCS function on scan tool for HVAC control head and MSM control module. If scan tool displays DTC 019, see DTC: 19 INSIDE MIRRORS CIRCUIT in DIAGNOSTIC SYSTEM TESTS in AUTOMATIC DAY/NIGHT MIRRORS - CATERA article. If scan tool displays DTC 032, 033, or 034, see **DIAGNOSTIC TROUBLE CODE DEFINITION** . If scan tool does not display DTC 019, 032, 033 or 034, go to **SYSTEM TESTS** .

DIAGNOSTIC TESTS

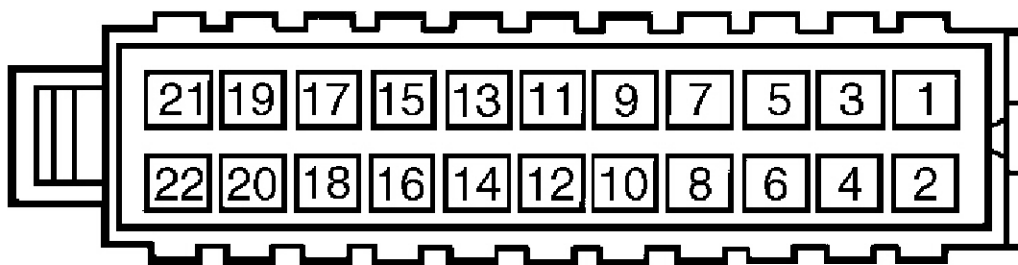
DTC 032: REAR WINDOW DEFOGGER SIGNAL VOLTAGE LOW

1. Perform stationary windows diagnostic system check. See **STATIONARY WINDOWS DIAGNOSTIC SYSTEM CHECK** under SELF-DIAGNOSTIC SYSTEM. Go to next step.
2. Start engine. Depress rear window defogger switch. Observe light on rear defogger button. If light on defogger button does not illuminate, go to next step. If light on defogger button illuminates, check for loose wires and poor connections in Black/White wire between HVAC control head harness connector C1 terminal No. 14 and heated outside rearview mirror/rear window defogger relay socket terminal No. 4. See **Fig. 2** and **Fig. 3** .
3. Turn ignition off. Remove outside rearview mirror/rear window defogger relay. Turn ignition on. Measure voltage between ground and heated outside rearview mirror/rear window defogger relay harness connector terminal No. 4 (Black/White wire). See **WIRING DIAGRAMS** . See **Fig. 2** . If 6-8 volts does not exist, go to next step. If 6-8 volts exists, go to step 5 .
4. Check for short to ground between HVAC control head harness connector C1 terminal No. 14 and heated outside rearview mirror/rear window defogger relay socket terminal No. 4. See **Fig. 2** and **Fig. 3** . If no problem was found, go to step, 6 . If problem was found and corrected, go to step 9 .
5. Check for loose wires or poor connections at heated outside rearview mirror/rear window defogger relay socket. If no problem was found, go to step 7 . If a problem was found and corrected, go to step 9 .
6. Check for loose wires and poor connections at HVAC control head harness connector. If no problem was found, go to step 8 . If a problem was found and corrected, go to step 9 .
7. Replace heated outside review mirror/rear window defogger relay. Go to step 9 .
8. Replace HVAC control head. See **HEATING VENTILATION AIR CONDITIONING (HVAC) CONTROL HEAD** under REMOVAL & INSTALLATION. Go to next step.
9. Connect scan tool and clear DTCs. Operate rear window defogger system to verify repair. If DTC does not reset, system is okay at this time. If DTC sets, return to step 2 .



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Fig. 2: Identifying Instrument Panel Relay Block Rear Defogger/Heated Mirror Relay Socket
Courtesy of GENERAL MOTORS CORP.



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Fig. 3: Identifying Heating Ventilation Air Conditioning (HVAC) Control Head Connector C1 Terminals
Courtesy of GENERAL MOTORS CORP.

DTC 033: REAR WINDOW DEFOGGER SIGNAL VOLTAGE OPEN CIRCUIT

1. Perform stationary windows diagnostic system check. See **STATIONARY WINDOWS DIAGNOSTIC SYSTEM CHECK** under SELF-DIAGNOSTIC SYSTEM. Go to next step.

2. Start engine. Depress rear window defogger switch. Observe light on rear defogger button. If light on defogger button does not illuminate, go to next step. If light on defogger button illuminates, check for loose wires and poor connections in Black/White wire between HVAC control head connector C1 terminal No. 14 and heated outside rearview mirror/rear window defogger relay socket terminal No. 4. See **WIRING DIAGRAMS** . See **Fig. 2** and **Fig. 3** .
3. Turn ignition off. Remove outside rearview mirror/rear window defogger relay. Turn ignition on. Measure voltage between ground and heated outside review mirror/rear window defogger relay socket terminal No. 4 (Black/White wire). See **Fig. 2** . If 6-8 volts exists, go to next step. If 6-8 volts does not exist, go to step 5 .
4. Measure resistance between ground and heated outside review mirror/rear window defogger relay socket terminal No. 6 (Black wire). If resistance is 1-3 ohms, go to step 6 . If resistance is not 1-3 ohms, go to step 8 .
5. Check for open or short to voltage in Black/White wire between heated outside review mirror/rear window defogger socket terminal No. 4 and HVAC control head harness connector C1 terminal No. 14. If no problem was found, go to step 7 . If a problem was found and corrected, go to step 11 .
6. Check for loose wires and poor connections at heated outside review mirror/rear window defogger relay socket. If no problem was found, go to step 9 . If a problem was found and corrected, go to step 11 .
7. Check for loose wires and poor connections at HVAC control head harness connector. If no problem was found, go to step 10 . If a problem was found and corrected, go to step 11 .
8. Repair open or high resistance in Black wire between heated outside review mirror/rear window defogger relay terminal No. 6 and ground under battery tray. Go to step 11 .
9. Replace heated outside review mirror/rear window defogger relay. Go to step 11 .
10. Replace HVAC control head. See **HEATING VENTILATION AIR CONDITIONING (HVAC) CONTROL HEAD** under REMOVAL & INSTALLATION. Go to next step.
11. Connect scan tool, clear DTCs. Operate rear window defogger system to verify repair. If DTC does not reset, system is okay at this time. If DTC sets, return to step 2 .

DTC 034: REAR WINDOW DEFOGGER OPEN CIRCUIT

1. Perform stationary windows diagnostic system check. See **STATIONARY WINDOWS DIAGNOSTIC SYSTEM CHECK** under SELF-DIAGNOSTIC SYSTEM. Go to next step.
2. Start engine. Depress rear window defogger switch. Observe light on rear defogger button. If light on defogger button does not illuminate, go to next step. If light on defogger button illuminates, check for loose wires and poor connections in Black/White wire between HVAC control head connector C1 terminal No. 14 and heated outside rearview mirror and rear window defogger relay socket terminal No. 4. See **Fig. 2** and **Fig. 3** .
3. Turn ignition off. Remove HTD MIRROR (10-amp) fuse. Connect a test light to ground and probe supply side of HTD MIRROR fuse. Start engine. Depress rear defogger switch. If test light does not illuminate, go to next step. If test light illuminates, go to step 6 .
4. Turn ignition off. Remove heated outside review mirror/rear window defogger relay. Turn ignition on. Connect a test light between ground and probe heated outside review mirror/rear window defogger relay harness connector terminal No. 1 (Brown wire). If test light illuminates, go to next step. If test light does not illuminate, go to step 12 .
5. Connect a test light between ground and heated outside review mirror/rear window defogger relay socket terminal No. 2 (Red wire). If test light illuminates, go to step 7 . If test light does not illuminate, go to step 8 .
6. Check for open or short to ground in Black/White wire between HDT MIRROR fuse No. 11 (10-amp) and outside mirror harness connector terminal No. 8. If no problem was found, go to step 10 . If a problem was found and corrected, go to step 16 .
7. Check for open or short to ground in voltage supply side of HTD MIRROR fuse No. 11. If no problem was found, go to step 11 . If problem was found and corrected, go to step 16 .

8. Check for open or short to ground in Red wire between heated outside review mirror/rear window defogger relay harness connector terminal No. 2 and RR WDO DEFOG fuse No. 34 (40-amp). If no problem was found, go to next step. If problem was found and corrected, go to step 16 .
9. Check for short to ground in Brown wire between heated outside review mirror/rear window defogger relay harness connector terminal No. 8 and radio amplifier harness connector C1 terminal "X". If no problem was found, go to step 13 . If problem was found and corrected, go to step 16 .
10. Check for loose wires and poor connections at HVAC control head harness connector. If no problem was found, go to step 14 . If problem was found and corrected, go to step 16 .
11. Check for loose wires and poor connections at heated outside review mirror/rear window defogger relay socket. If no problem was found, go to step 15 . If problem was found and corrected, go to step 16 .
12. Repair an open or short to ground in Brown wire between heated outside review mirror/rear window defogger relay harness connector terminal No. 1 and CLAMP 15 fuse No. 14 (10-amp). Go to step 16 .
13. Repair short to ground in voltage supply side of HTD MIRROR fuse No. 11 (10-amp) between heated outside review mirror/rear window defogger relay harness connector terminal No. 5 and HTD MIRROR fuse No. 11. Go to step 16 .
14. Replace HVAC control head. See **HEATING VENTILATION AIR CONDITIONING (HVAC) CONTROL HEAD** under REMOVAL & INSTALLATION. Go to step 16 .
15. Replace heated outside review mirror/rear window defogger relay. Go to next step.
16. Connect scan tool and clear DTCs. Operate rear window defogger system to verify repair. If DTC does not reset, system is okay at this time. If DTC sets, return to step 2 .

SYSTEM TESTS

NOTE: Before testing, ensure fuses and circuit breakers are okay and ground connections are clean and tight. For identification of connectors and terminals, see appropriate wiring diagram. See **WIRING DIAGRAMS** .

Before proceeding with system tests, check for any Diagnostic Trouble Codes (DTC) stored in memory of BCM, driver memory seat module and HVAC system which may lead to misdiagnosis of rear defogger/heated mirror system. See **RETRIEVING DIAGNOSTIC TROUBLE CODES** under SELF-DIAGNOSTIC SYSTEM.

SYMPTOM INDEX

Symptom	Perform Test
Heated Mirror(S) Inoperative	<u>A</u>
Rear Defogger Indicator Always On	<u>B</u>
Rear Defogger Inoperative	<u>C</u>

TEST A: HEATED MIRROR(S) INOPERATIVE

1. Review outside mirror description and operation. Go to next step.
2. Operate heated mirror to verify operating fault is present. If heated mirror does not operate properly, go to next step. If heated mirror operates properly, check for loose wires and poor connections at heated mirrors.
3. If rear window defogger operates correctly, go to next step. If rear window defogger does not operate properly, see **TEST C: REAR DEFOGGER INOPERATIVE** .
4. Check for open or short to ground in Black/White wire between faulty heated outside mirror harness connector terminal No. 8 and HTD mirror fuse No. 11 (10-amp). If no problem was found, go to next step. If a problem was found and corrected, go to step 8 .
5. Check for an open in Black wire between faulty heated outside mirror harness connector terminal No. 9 and ground at driver's kick panel. If no problem was found, go to next step. If a problem was found and corrected, go to step 8 .

6. Check for loose wires and poor connections at faulty heated outside mirror harness connector. If no problem was found, go to next step. If a problem was found and corrected, go to step 8 .
7. Replace faulty heated outside mirror face. See **POWER MIRROR FACE/GLASS** under REMOVAL & INSTALLATION. Go to next step.
8. Operate system to verify heated outside mirrors are operating correctly. If system operates correctly, system is okay at this time. If system does not operate correctly, return to step 2 .

TEST B: REAR DEFOGGER INDICATOR ALWAYS ON

1. Perform stationary windows diagnostic system check. See **STATIONARY WINDOWS DIAGNOSTIC SYSTEM CHECK** under SELF-DIAGNOSTIC SYSTEM. Go to next step.
2. Start engine. Observe rear window defogger indicator on HVAC control head. Depress rear window defogger button on and off. If light on rear window defogger button lights up and stays on, go to next step. If light on rear window defogger button does not stay on, check for loose wires and poor connectors at HVAC control head harness connector.
3. Turn ignition off. Remove heated outside rearview mirror/rear window defogger relay. Turn ignition on. Observe rear window defogger indicator on HVAC control head. If rear window defogger indicator remains illuminated, go to next step. If rear window defogger indicator does not remain illuminated, go to step 5 .
4. Check for short to battery voltage in Black/White wire between heated outside rearview mirror/rear window defogger relay socket terminal No. 5, HTD mirror fuse No. 11 (10-amp) and both heated outside rear view mirror harness connector terminals No. 8. If no problem was found, go to step 6 . If a problem was found and corrected, go to step 9 . See **WIRING DIAGRAMS** .
5. Check for loose wires and poor connections at heated outside rearview mirror/rear window defogger relay socket. If no problem was found, go to step 7 . If a problem was found and corrected, go to step 9 .
6. Check for loose wires and poor connections at HVAC control head. If no problem was found, go to step 8 . If a problem was found and corrected, go to step 9 .
7. Replace heated outside rearview mirror/rear window defogger relay. Go to step 9 .
8. Replace HVAC control head. See **HEATING VENTILATION AIR CONDITIONING (HVAC) CONTROL HEAD** under REMOVAL & INSTALLATION.
9. Operate system to verify rear window defogger indicator light does not remain on at all times. If rear window defogger indicator light does not remain on at all times, system is okay. If rear window defogger indicator light remains on at all times, return to step 2 .

TEST C: REAR DEFOGGER INOPERATIVE

1. Perform stationary windows diagnostic system check. See **STATIONARY WINDOWS DIAGNOSTIC SYSTEM CHECK** under SELF-DIAGNOSTIC SYSTEM. Go to next step.
2. Start engine. Depress rear window defogger switch. Observe light on rear defogger button. If light on defogger button does not illuminate, go to next step. If light on defogger button illuminates, go to step 10
3. Connect a test light between ground and rear window defogger grid. If test light illuminates, go to next step. If test light does not illuminate, go to step 5 .
4. Connect a test light between both Brown wires on each side of rear window defogger grid. If test light does not illuminate, go to step 8 . If test light illuminates, check for loose wires and poor connections in wiring to rear window defogger grid.
5. Turn ignition off. Remove heated outside rearview mirror/rear window defogger relay. Turn ignition on. Connect test light between ground and heated outside rearview mirror/rear window defogger relay socket terminal No. 2 (Red wire). If test light illuminates, go to next step. If test light does not illuminate, go to step 13 .
6. Connect a fused jumper wire (40-amp) between heated outside rearview mirror/rear window defogger relay socket terminals No. 2 (Red wire) and No. 8 (Brown wire). Connect test light between ground and rear

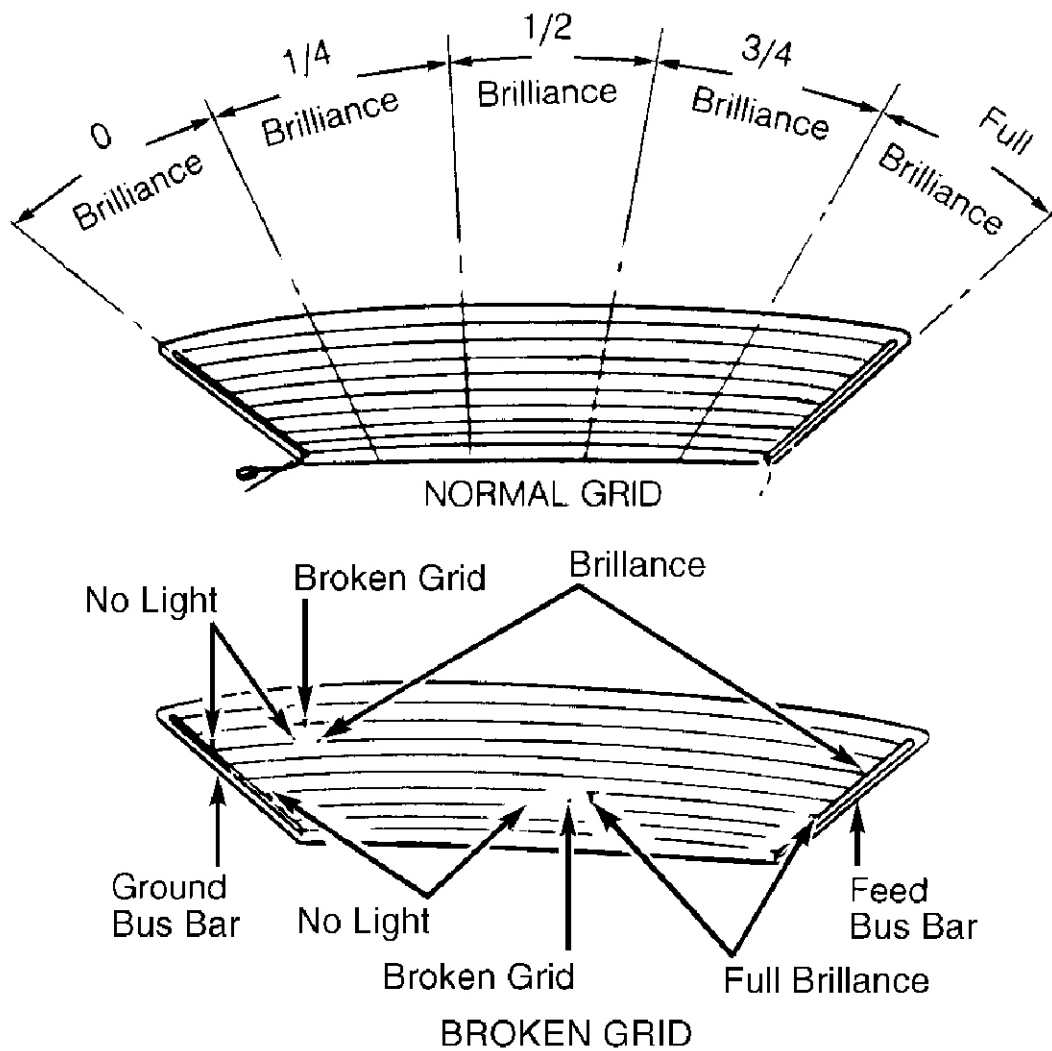
window defogger grid terminal No. 2 (Brown wire). If test light does not illuminate, go to next step. If test light illuminates, go to step 12 .

7. Turn off ignition. Disconnect radio amplifier harness connector. Turn ignition on. Connect a test light between ground and radio amplifier harness connector C1 terminal "X" (Brown wire). If test light illuminates, go to step 9 . If test light does not illuminate, go to step 14 .
8. Check for open or high resistance in Brown wire between radio antenna amplifier harness connector C2 terminal No. 2 and rear window defogger grid. If a problem was not found, go to step 11 . If a problem was found and corrected, go to step 18 .
9. Check for an open or high resistance in Brown wire between radio antenna amplifier harness connector C2 terminal No. 2 and rear window grid. If a problem was not found, go to step 11 . If a problem was found and corrected, go to step 18 .
10. Check for loose wires and poor connections at HVAC control head harness connector. If no problem was found, go to step 15 . If a problem was found and corrected, go to step 18 .
11. Check for loose wires and poor connections at radio antenna amplifier. If no problem was found, go to step 16 . If a problem was found and corrected, go to step 18 .
12. Check for loose wires and poor connections at heated outside rearview mirror/rear window defogger relay socket. If no problem was found, go to step 17 . If problem was found and corrected, go to step 18 .
13. Repair open or high resistance in Red wire between heated outside rearview mirror/rear window defogger relay socket terminal No. 2 and RR WDO DEFOG fuse No. 34 (40-amp). Go to step 18 .
14. Repair open or high resistance between heated outside rearview mirror/rear window defogger relay socket terminal No. 8 (Black/White wire) and rear window defogger terminal X2 (Brown wire). Go to step 18 .
15. Replace HVAC control head. See **HEATING VENTILATION AIR CONDITIONING (HVAC) CONTROL HEAD** under REMOVAL & INSTALLATION. Go to step 18 .
16. Replace radio antenna amplifier. See **RADIO ANTENNA AMPLIFIER** in REMOVAL & INSTALLATION. Go to step 18 .
17. Replace heated outside rearview mirror and heated outside rearview mirror/rear window defogger. See **POWER MIRROR FACE/GLASS** under REMOVAL & INSTALLATION. Go to next step.
18. Operate system to verify rear window defogger and heated mirrors are operating correctly. If system operates correctly, system is okay at this time. If system does not operate correctly, return to step 2 .

COMPONENT TESTS

GRID FILAMENT TEST

1. Start engine. Turn defogger on (press and release rear defogger switch button once). Connect test light to ground and lightly touch all grid lines at each end. Test light should decrease in brilliance as resistance increases when probe is moved from positive lead on grid toward negative lead. If test light shows full brilliance at both ends of all grid lines, check for a loose ground wire.
2. Contact each grid line a few inches on either side of glass center line to eliminate possibility of missing a break in grid line. If a problem on a grid line is detected, place test light probe on grid line at power bus bar and move probe toward ground bus bar until light goes out, indicating a break in grid line continuity. See **Fig. 4** . If break exists in grid line, go to **GRID FILAMENT REPAIR** under ON-VEHICLE SERVICE.



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Fig. 4: Examining Grid Brilliance Test Patterns
 Courtesy of GENERAL MOTORS CORP.

REMOVAL & INSTALLATION

HEATING VENTILATION AIR CONDITIONING (HVAC) CONTROL HEAD

NOTE: It is necessary to use a scan tool to program HVAC control head upon replacement.

Removal & Installation

1. Remove console rear vent housing retaining screws. Remove rear vent housing from console. Disconnect harness connectors from cigar lighter and heated seat switches. Set rear vent housing aside. Gently pull up on front of console gear selector boot and remove. Reach under console and remove harness connector from winter mode switch. Push out on winter mode switch from bottom and lift up, disconnect harness connector and remove switch. Lift shift indicator from console to access electrical connector. Disconnect shift indicator electrical connector. Remove shift indicator. Set shift indicator aside.
2. Access winter mode switch electrical connector through opening in console. Disconnect winter mode switch electrical connector. Dislodge winter mode switch from console through opening in console. Set winter mode switch aside. Remove console trim plate screws.
3. Move console trim plate forward to remove front console retaining bolts. Carefully pry on sides of parking brake lever boot and remove boot. Remove parking brake lever trim panel retaining screw and remove panel. Remove rear console retaining screws. Remove console.

4. Set parking brake. Move shift lever to Low gear. Remove ashtray assembly. Using flat-bladed tool, carefully pry traction control, trunk release, fuel door release, hazard and heated seat switches from radio bezel. Remove radio bezel screw covers. Remove radio bezel screws. Mark position of switch electrical connectors on radio bezel for reassembly reference. Remove switch electrical connectors from radio bezel. Remove radio bezel from instrument panel.
5. Remove radio retaining screws. Pull radio straight out from instrument panel. Disconnect electrical connectors and antenna lead from radio. Remove radio from instrument panel. Remove HVAC control head retaining screws. Pull HVAC control head straight out from instrument panel. Disconnect HVAC control head harness connectors. Remove HVAC control head.
6. To install, reverse removal procedure. Connect scan tool to Data Link Connector (DLC). See **COMPONENT LOCATIONS** . Using scan tool, select PROGRAMMING PROCEDURE from AIR CONDITIONING SPECIAL FUNCTIONS menu. Follow instructions on scan tool to program HVAC control head.

POWER MIRROR FACE/GLASS

Removal & Installation

Tilt glass inboard while pulling outside edge of mirror glass toward rear. Disengage 2 adjuster arms from mirror motor. Remove mirror glass and disconnect electrical connector(s). To install, reverse removal procedure.

RADIO ANTENNA AMPLIFIER

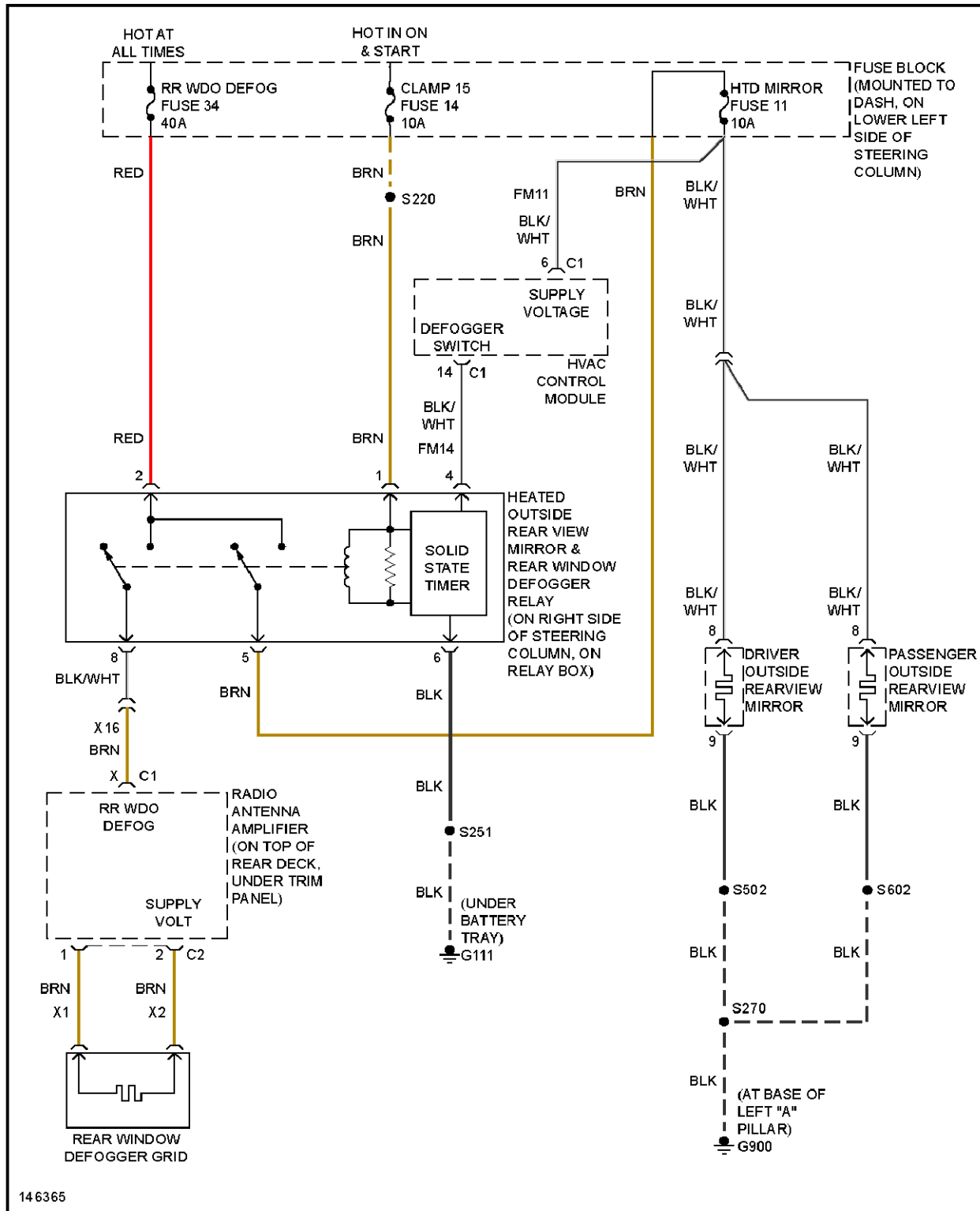
Removal & Installation

1. Using pointed tool, release rear center seat belt retractor latch from buckle. Remove rear center seat belt retractor cover. Remove rear center seat belt retractor bolt. Remove rear center seat belt retractor from rear window panel. Pull rear seat cushion release handles, located at base of rear seat cushion. Raise rear seat cushion slightly to access heated seat electrical connectors. Remove seat belt(s) from rear seat cushion. Remove rear seat cushion and set aside.
2. Fold rear seat back cushions down. Bend tabs at base of rear seat backs outward. Pull out and lift up on rear seat backs to release from retaining hooks. Set rear seat backs aside. Raise rear head restraints. Press tabs at base of rear head restraints while pulling up. Remove rear head restraints. Press in on rear head restraint retainers and remove.
3. Remove outer seat belt retractors. Using flat-bladed tool, unsnap rear speaker grilles and air vent. Remove rear seat back armrest latch-pin. Remove seat back anchor covers. Remove 3 rear window push retainers. Disconnect sunshade electrical connector. Open deck lid. Remove 3 rear window trim panel retaining nuts from inside rear compartment. Remove rear window trim panel.
4. Disconnect radio antenna amplifier cable. Disconnect radio antenna amplifier electrical connectors. Remove radio antenna amplifier mounting bolts. Remove radio antenna amplifier. To install, reverse removal procedure.

WIRING DIAGRAMS

2001 Cadillac Catera

2001 ACCESSORIES & EQUIPMENT Rear Window & Mirror Defoggers - Catera



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Fig. 5: Defogger System Wiring Diagram (Catera)

2001 Cadillac Catera

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