Rear Window Defogger

ALL MODELS

DESCRIPTION

Rear window defogger systems use a heating wire grid bonded to the inside of rear window. Window heat is regulated by a control switch and a relay/timer. An indicator lamp should light to show system is on. Power to the control switch is through a fuse in the fuse block.

OPERATION

Defogger operates when ignition is on and the control switch is moved to "ON". When the switch is turned on, current flows through the wire and evaporates the water from the window. The timer relay will keep power to the grid for a few minutes or until the ignition is turned off.

TROUBLE SHOOTING

DEFOGGER DOES NOT WORK

Blown fuse or poor contact. Defogger switch defective. Poor connections. Broken wire. Relay defective.

INDICATOR LIGHT DOES NOT WORK

Bulb burned out. Open in wiring or poor connection.

TESTING

NOTE: See appropriate chassis wiring diagram in WIRING DIAGRAM section for system wiring diagram.

SYSTEM TESTING

1) Check that all in-line fuses or circuit breakers are operational. Turn ignition and control switches on. Check rear window glass temperature after a few minutes. Glass should feel warm to the touch.

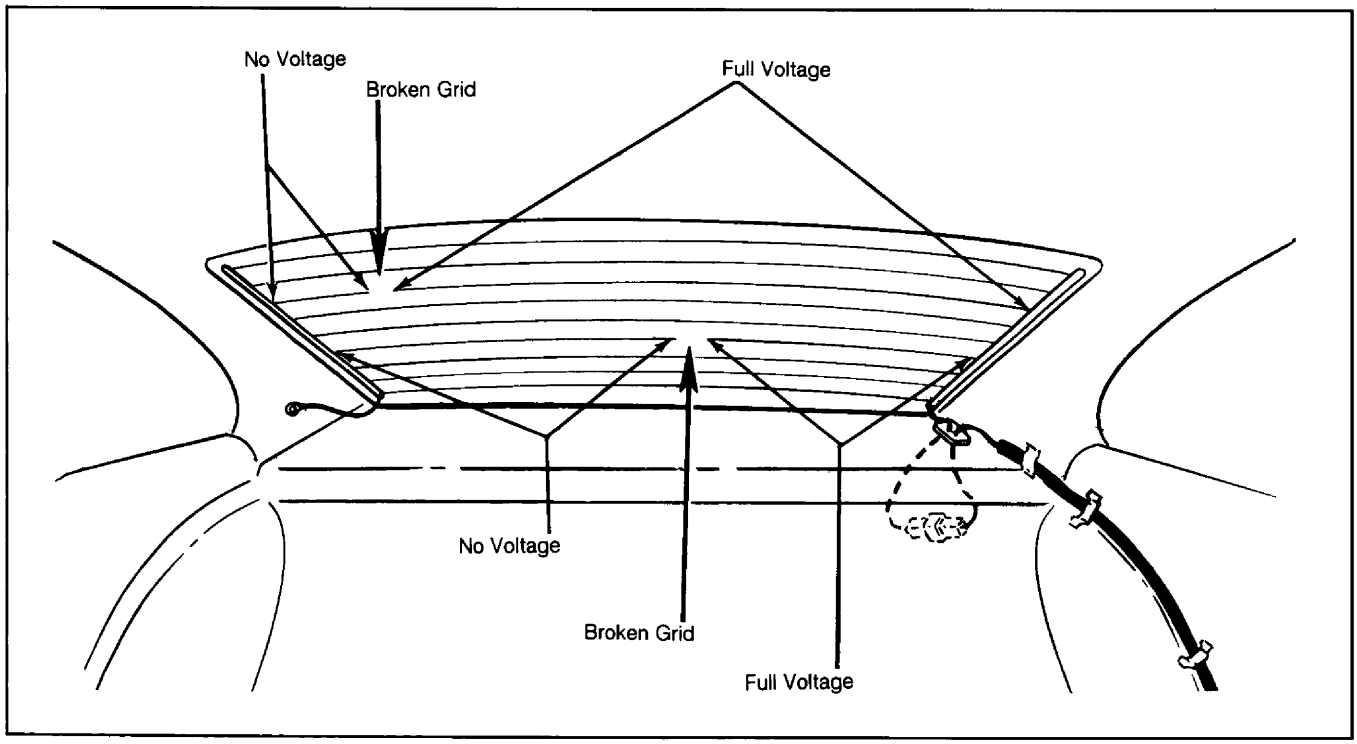
2) If not, use a test lamp or voltmeter to check for battery voltage at grid feed wire. If voltage is not correct, check the wiring harness, control switch or the timer/relay.

FILAMENT TESTING

1) To locate breaks in the grid wire filaments, attach a voltmeter to the middle portion of each filament. Attach the other meter probe to the vertical section of the window grid.

2) If a grid is broken, the meter will register 0 volts or battery voltage. If the wire is unbroken, the meter will register approximately half battery voltage. To the locate the break, move the probe along the wire until the meter needle moves abruptly.

Fig. 1: Voltage Test for Broken Grid Filaments



At the point of break, voltmeter needle will move abruptly.