

DEFOGGER - REAR WINDOW

1990 Nissan 240SX

1990-92 ACCESSORIES & EQUIPMENT
Rear Window Defogger

Axxess, Maxima, Pathfinder,
Pickup, Pulsar NX, Sentra,
Stanza, 240SX, 300ZX

REAR DEFOGGER RELAY DESCRIPTION & OPERATION

(EXCEPT AXCESS & PICKUP)

All models except Axxess and Pickup use a relay to supply voltage to grid filament. See SYSTEM COMPONENT LOCATIONS table in this article for relay location.

TIME CONTROL UNIT DESCRIPTION & OPERATION

(MAXIMA, PATHFINDER, SENTRA, STANZA, 240SX & 300ZX)

Time control unit controls defogger's on time. Unless control switch is turned off first, system will automatically turn off after approximately 15 minutes. On Maxima, Stanza, 240SX and 300ZX, time control unit controls other functions of system in addition to rear defogger (wiper delay, warning chimes, etc.). On Pathfinder and Sentra, time control unit is a separate unit, controlling only the defogger's on time function. For location of time control unit, see SYSTEM COMPONENT LOCATIONS table in this article.

CONTROL SWITCH LOCATIONS

Application	Location
Axxess, Pulsar NX & 300ZX	Mounted To Upper Left Corner Of Dash Panel
Pathfinder & Pickup	Mounted To Dash Panel, To Left Of Steering Column
Maxima, Sentra, Stanza & 240SX	Mounted To Dash Panel, To Right Of Steering Column

NOTE: All models except Axxess and Pickup use a relay to supply voltage to grid filament.

SYSTEM COMPONENT LOCATIONS TABLE

SYSTEM COMPONENT LOCATIONS

Application	Location
Rear Defogger Relay	
Maxima & Stanza	Right Side Of Fuse Block, Under Left End Of Dash
Pathfinder	Behind Opening In Left Rear Interior Quarter Panel
Pulsar NX & Sentra	Under Left Side Of Dash, Near Firewall
240SX	To Right Of Junction Block, Under Left End Of Dash
300ZX	In Fuse Block, Under Left Side Of Dash

Time Control Unit

Maxima	Near Brake Pedal Bracket
Pathfinder	Behind Opening In Left Rear Interior Quarter Panel
Sentra	Combined Unit With Control Switch
Stanza, 240SX & 300ZX	Behind Left Kick Panel

REAR DEFOGGER RELAY LOCATION (1992)

Application	Location
Maxima, NX, Sentra & Stanza	Behind Left End Of Dash, On Right Side Of Fuse Block
Pathfinder	Behind Opening In Left Rear Interior Quarter Panel
240SX	Under Left End Of Dash To Right Of Junction Block
300ZX	Under Left Of Dash, In Fuse Block

DEFOGGER DOES NOT WORK TROUBLESHOOTING

Check fuse, control switch, wiring circuit and grid wire filaments. Also, check rear defogger relay and time control unit for models equipped with these components.

SYSTEM OPERATION TESTING

Start engine. Turn rear defogger control switch on. Glass should feel warm after a few minutes. If glass is not warm, use a test light or voltmeter to check for battery voltage at grid feed wire. If battery voltage is NOT present, check wiring harness, control switch, rear defogger relay (if equipped) and time control unit (if equipped).

FILAMENT TESTING

To locate breaks in grid wire filaments, ensure battery voltage is present on feed side of grid. Connect voltmeter between middle portion of filament and vertical section of grid (at either end of window). See Fig. 1. Probe entire length of filament. If voltmeter needle moves abruptly, check for break in filament at that point.

DEFOGGER SWITCH TEST

Remove defogger switch. Using an ohmmeter, check continuity of defogger switch terminals. See DEFOGGER SWITCH TERMINALS CONTINUITY table.

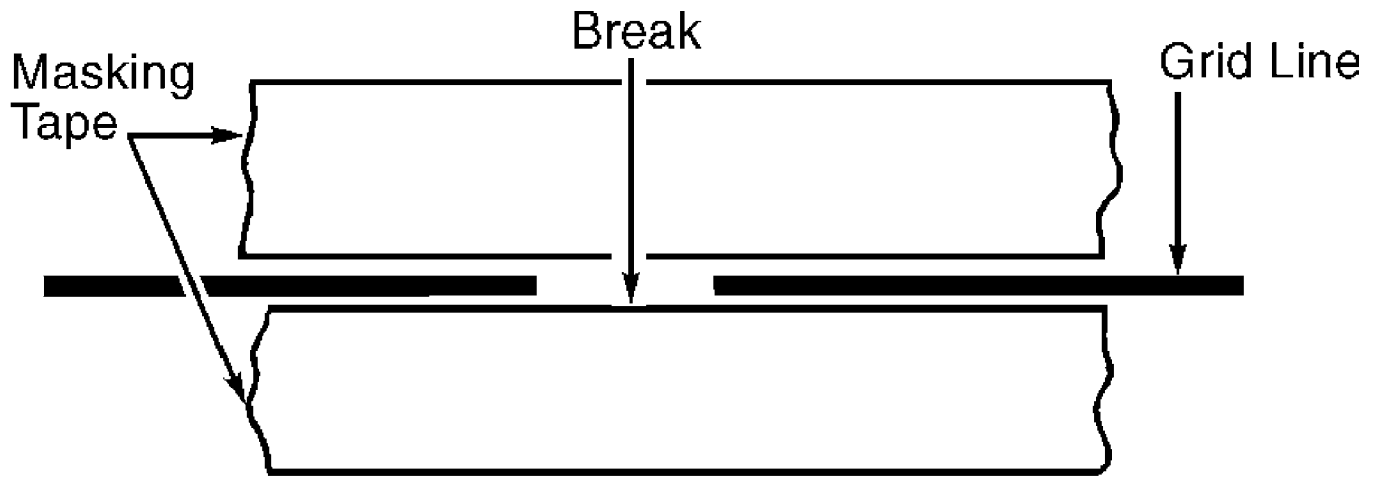
DEFOGGER SWITCH TERMINALS CONTINUITY

Application	Terminal Continuity
Maxima, NX, Sentra, Stanza & 240SX	
Switch On	1 & 2, 3 & 4, 5 & 6
Switch Off	3 & 4, 5 & 6
Pathfinder	
Switch On	1 & 2, 4 & 5
Switch Off	2 & 3, 4 & 5
300ZX	
Switch On	11, 12 & 13
Switch Off	None

ON-VEHICLE SERVICE

GRID FILAMENT REPAIR

1) Clean broken grid and its surrounding area with a cloth dampened in alcohol. Apply masking tape to both sides of grid line. See Fig. 1.



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Fig. 1: Repairing Rear Defogger Grid Element

2) Apply a small amount of silver conductive paint to the tip of a drawing pen. Apply silver conductive paint on grid, overlapping existing grid approximately .20" (5 mm).

3) After 10 minutes, check repaired grid for continuity. Do not touch repaired area while test is being performed. If repaired area is okay, use a heat gun and apply hot air to repaired area for approximately 20 minutes. If a heat gun is not available, allow repaired area to dry for 24 hours.

WIRING DIAGRAMS

NOTE: See appropriate chassis wiring diagram in WIRING DIAGRAMS.

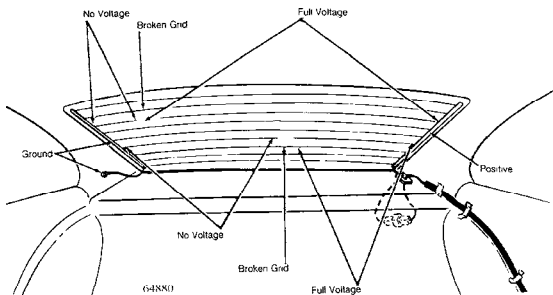


Fig. 2: Typical Voltage Test for Broken Grid Filaments