

# DEFOGGER - REAR WINDOW

## Article Text

1993 Mazda 929

For Techdoc Ltd.

Copyright © 1997 Mitchell International

Wednesday, March 24, 1999 11:50PM

## ARTICLE BEGINNING

1993 ACCESSORIES/SAFETY EQUIPMENT

Mazda Rear Window Defogger

929

## DESCRIPTION & OPERATION

Heating grid filament is bonded to inside of rear window. Defogger relay allows power to heating grid filament. See ELECTRICAL COMPONENT LOCATIONS table. Defogger timer maintains power to grid for 10 or 15 minutes or until ignition is turned off. Indicator light comes on when defogger is on.

### ELECTRICAL COMPONENT LOCATIONS TABLE

AA

Component	Location
-----------	----------

Defogger Relay	.. In Luggage Compartment, Behind Rear Seat
----------------	---

Defogger Timer	..... (1)
----------------	-----------

(1) - Defogger timer is an integral part of Central Processing Unit (CPU). CPU is attached to joint box at left kick panel.

AA

## TESTING

### SYSTEM TEST

Turn ignition on. Turn defogger switch to ON position. If glass is not warm after a few minutes, check fuse. If fuse is okay, use a test light or voltmeter to check for battery voltage at grid feed wire. If battery voltage is present, repair grid filament or grid filament ground. If battery voltage is not present, check defogger switch, defogger relay and wiring harness. If components are okay, replace defogger timer.

### DEFOGGER SWITCH TEST

Disconnect defogger switch connector. Check continuity between specified terminals of defogger switch connector. See DEFOGGER SWITCH CONTINUITY TEST table. See Fig. 1. With defogger switch in OFF position, there should be no continuity. With defogger switch in ON position, there should be continuity. Replace defogger switch if continuity is not as specified.

### DEFOGGER SWITCH CONTINUITY TEST TABLE

AA

Application	Terminals
-------------	-----------

# DEFOGGER - REAR WINDOW

## Article Text (p. 2)

1993 Mazda 929

For Techdoc Ltd.

Copyright © 1997 Mitchell International

Wednesday, March 24, 1999 11:50PM

929 ..... A & C  
AA



929

93H01970

Fig. 1: Testing Defogger Switch  
Courtesy of Mazda Motors Corp.

### DEFOGGER RELAY TEST

Remove relay. Continuity should not exist between terminals "C" and "D". See Fig. 2. Apply battery voltage across terminals "A" and "B". Continuity should exist between terminals "C" and "D". If continuity is not as specified, replace relay.

DEFOGGER - REAR WINDOW

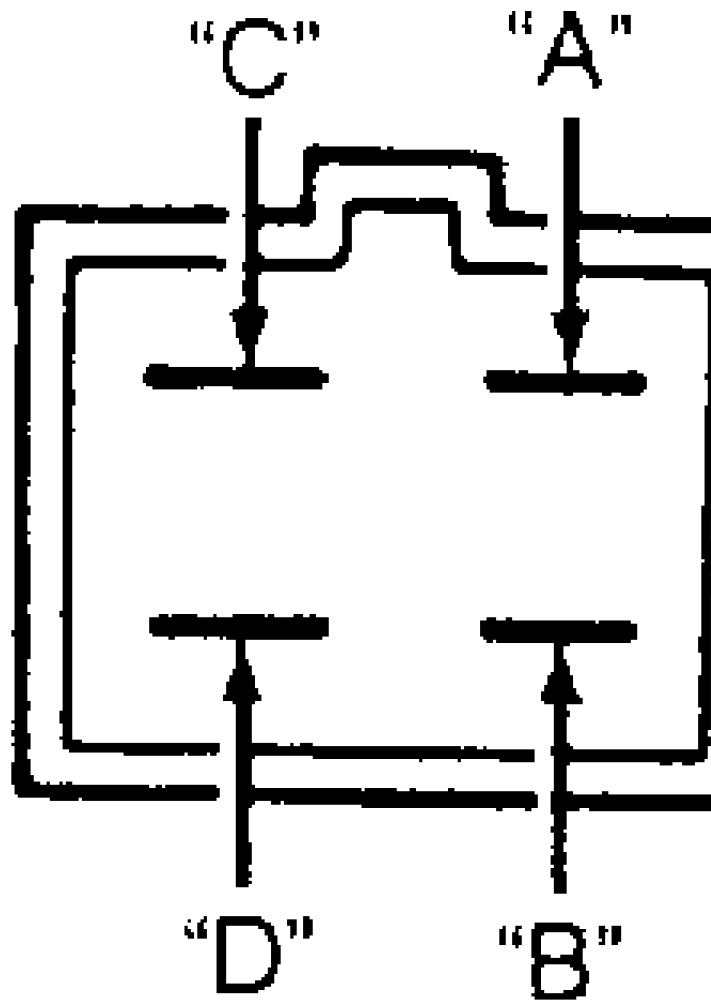
Article Text (p. 3)

1993 Mazda 929

For Techdoc Ltd.

Copyright © 1997 Mitchell International

Wednesday, March 24, 1999 11:50PM



EXCEPT MIATA

93A8342E

Fig. 2: Relay Terminal ID  
Courtesy of Mazda Motors Corp.

## DEFOGGER - REAR WINDOW

### Article Text (p. 4)

1993 Mazda 929

For Techdoc Ltd.

Copyright © 1997 Mitchell International  
Wednesday, March 24, 1999 11:51PM

### GRID FILAMENT TEST

1) To locate breaks in grid wire filaments, attach a voltmeter probe to middle portion of filament. See Fig. 3. Attach other voltmeter probe to vertical section of window grid.

2) If wire is not broken, voltmeter will register about one half of battery voltage. If a grid is broken, voltmeter will register zero volts or battery voltage, depending on whether grid is broken between test leads or outside test leads. To locate break, move probe along wire until voltmeter needle moves abruptly.

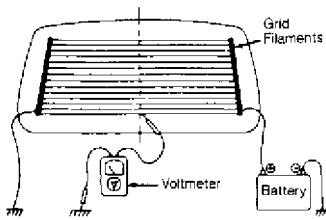


Fig. 3: Testing Grid Filaments  
Courtesy of Mazda Motors Corp.

### ON-VEHICLE SERVICE

#### GRID FILAMENT REPAIR

1) If necessary, use razor blade or equivalent to remove small amount of silicone from damaged area to expose grid line. Clean exposed broken grid line area with alcohol. Place tape along both sides of grid line area to be repaired. See Fig. 4. If Brown filament is broken, apply Brown touch-up paint to Brown grid line break area (if necessary).

2) Apply Silver Touch-Up Paint (2835-77-600) over Brown touch-up paint at break area, overlapping both lines. Allow a few minute drying time before carefully removing tape from line edges. DO NOT touch repaired area for 24 hours.

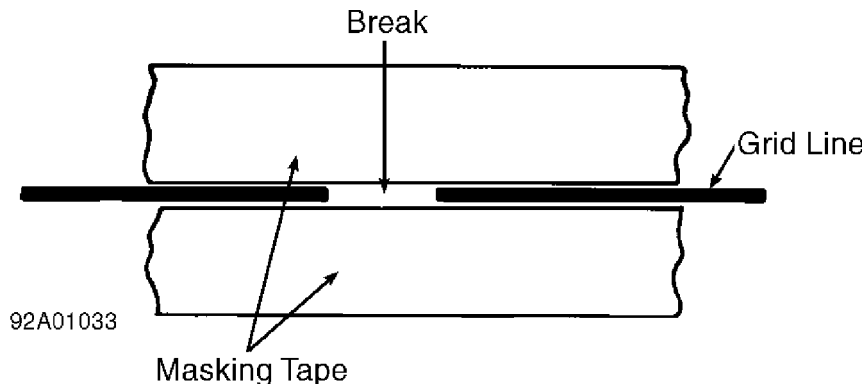


Fig. 4: Repairing Defogger Grid Filament

### WIRING DIAGRAMS

## **DEFOGGER - REAR WINDOW**

### **Article Text (p. 5)**

1993 Mazda 929

For Techdoc Ltd.

Copyright © 1997 Mitchell International

Wednesday, March 24, 1999 11:51PM

Refer to chassis WIRING DIAGRAMS article in WIRING DIAGRAMS section.

**END OF ARTICLE**