

DEFOGGER - REAR WINDOW

Article Text

1993 Honda Prelude

For Cadi Centre Nsk CA 95051

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ARTICLE BEGINNING

1993 ACCESSORIES & EQUIPMENT

Honda Rear Window Defoggers

Prelude

DESCRIPTION & OPERATION

Rear window defogger system uses a heating grid wire bonded to inside of window. Heat is regulated by a dash-mounted control switch with indicator light, relay and Integrated Control Unit (ICU). Power is supplied to control switch through a fuse in fuse/relay box. ICU will supply power to grid for 25 minutes, or until ignition is turned off.

TROUBLE SHOOTING

NOTE: When diagnosing vehicle by symptom, check for possible failures in the following order. When component tests are indicated, see appropriate procedure under TESTING.

DEFOGGER INOPERATIVE

Check for blown fuse No. 13 (10-amp) in dash fuse/relay box (located at left side kick panel). Check defogger timer circuit input (in ICU). Check for poor ground connections. Check for short or open in Black/Yellow wire.

INDICATOR LIGHT INOPERATIVE (DEFOGGER OPERATES)

Check for burned-out bulb. Check for short or open in Black/Yellow or Black wires.

INDICATOR LIGHT OPERATES (DEFOGGER INOPERATIVE)

Check for blown fuse No. 23 (30-amp) in underhood fuse/relay box. Perform defogger grid and defogger relay tests. Check for poor ground connections. Check for short or open in Yellow/Black, Yellow/Green or Black/Green wires.

OPERATION TIME TOO LONG OR TOO SHORT

Check defogger timer circuit input (in ICU). Check for open or disconnected terminal in Yellow/White wire.

TESTING

DEFOGGER SWITCH TEST

Remove heater control panel. With defogger switch in ON position, use an analog ohmmeter to check continuity between switch terminals No. 11 (Black wire) and No. 14 (Yellow/White wire). See Fig. 1. Continuity should exist. With switch in any position, check continuity between terminals No. 12 (Yellow/Green wire) and No. 16 (Black/Yellow wire). Continuity should exist. If continuity does not exist in either circuit, replace defogger switch.

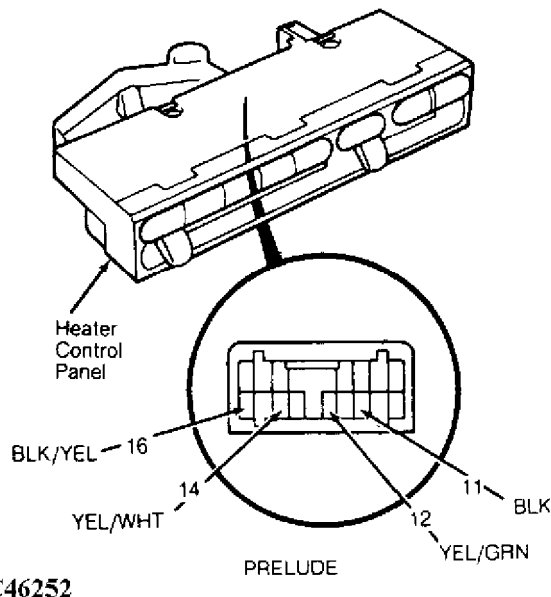
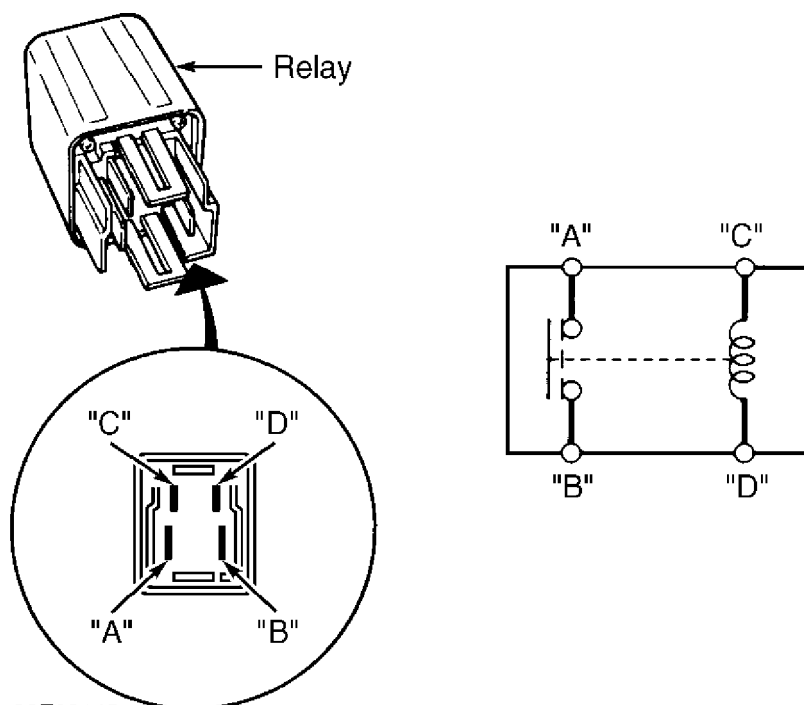


Fig. 1: Testing Defogger Switch
Courtesy of American Honda Motor Co., Inc.

DEFOGGER RELAY TEST

Remove defogger relay. Relay is located in underdash fuse/relay box at left side kick panel. Apply battery voltage to terminal "C", and ground terminal "D". See Fig. 2. Use an ohmmeter to ensure continuity exists between terminals "A" and "B". Ensure continuity does not exist between terminals "A" and "B" when battery voltage is removed.



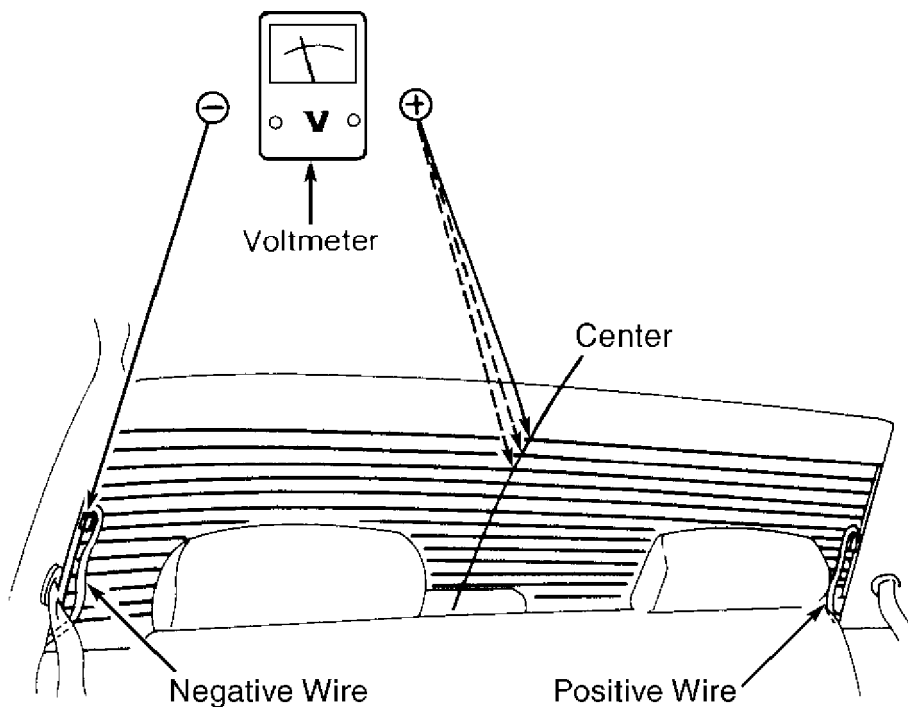
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Fig. 2: Identifying Relay Terminals
 Courtesy of American Honda Motor Co., Inc.

GRID FILAMENT TEST

1) Turn ignition and rear window defogger on. Using a voltmeter, check for voltage between defogger positive wire terminal and body ground. See Fig. 3. If voltage is present, go to next step. If voltage is not present, check for faulty defogger relay. Check for open in Black/Green defogger relay wire.

2) If voltage is present, use an ohmmeter to check for continuity between defogger negative wire terminal and body ground. If continuity does not exist, check for open in defogger ground wire. Connect voltmeter negative probe to defogger negative wire terminal. Connect voltmeter positive probe to center of each defogger grid wire.

3) If voltage is approximately 6 volts, defogger grid wire is okay. If voltage is greater than 6 volts, an open exists between center of defogger grid wire and negative side of center. If voltage is not present, an open exists between defogger grid wire and positive side of center. To locate break, move probe along grid wire until meter needle moves abruptly. See Fig. 3.



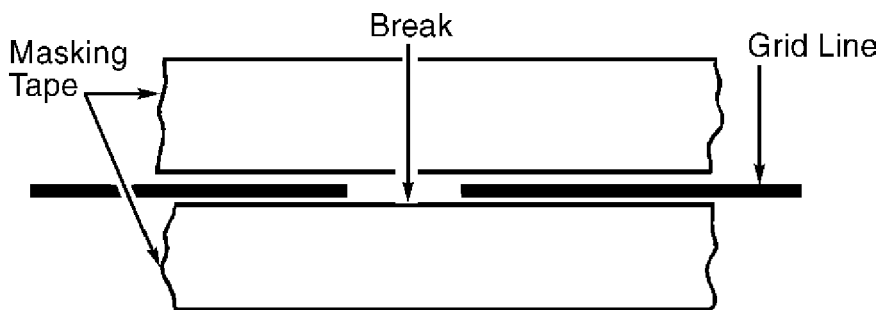
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Fig. 3: Testing For Broken Defogger Grid Wires
 Courtesy of American Honda Motor Co., Inc.

ON-VEHICLE SERVICE

GRID FILAMENT REPAIR

Clean broken wire tips thoroughly. Place masking tape along both sides of broken wire. See Fig. 4. Apply Repair Paste (Dupont 4817) to broken section of grid. Remove masking tape after paste has dried. Wait 24 hours before using defogger.



DEFOGGER

92A01033

Fig. 4: Repairing Rear Defogger Grid Filament

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WIRING DIAGRAMS

See appropriate chassis wiring diagram in the **WIRING DIAGRAMS**

section.

END OF ARTICLE