

# DEFOGGER - REAR WINDOW

1993 Mitsubishi Montero

1993 ACCESSORIES/SAFETY EQUIPMENT  
Mitsubishi Rear Window Defoggers

Montero

## DESCRIPTION & OPERATION

The rear window defogger is a heating filament grid bonded to the inside of the window. Heat is regulated by a control switch located on the instrument panel.

## TROUBLE SHOOTING

### DEFOGGER DOES NOT WORK

Check for blown fuse, poor contact, defective defogger switch, poor connection or open wire.

### DEFOGGER TIMER INOPERATIVE

Check defogger switch. Timer is integrated into defogger switch.

### INDICATOR LIGHT DOES NOT WORK

Check for burned out bulb, open wire or poor connection.

### INDICATOR LIGHT IS DIM

Check rheostat or indicator bulb.

## TESTING

NOTE: Testing information for all components on all vehicles is not available from manufacturer.

### DEFOGGER RELAY TEST

1) Remove defogger relay, located in right front corner of engine compartment. Ground relay terminal No. 3, and apply battery voltage to terminal No. 5. Check relay continuity using ohmmeter.

2) Continuity should exist between terminals No. 1 and 2. With voltage disconnected, continuity should not exist between terminals No. 1 and 2. Ensure continuity exists between terminals No. 3 and 5. See Fig. 1. Replace relay if it does not test as specified.



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MONTERO, STEALTH  
& 3000GT

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Fig. 1: Defogger Relay Terminal ID  
Courtesy of Mitsubishi Motor Sales of America.

### DEFOGGER SWITCH TEST

NOTE: Remove window defogger switch and disconnect switch connector for the following test.

Turn defogger switch to OFF position. Check switch continuity using ohmmeter. Continuity should be present between terminals No. 1 and 3, and terminals No. 4 and 5. Turn defogger switch to ON position. Continuity should exist between terminals No. 1 and 3, 4 and 5, and between terminals No. 2 and 6. See Fig. 2. Replace Switch if it does not test as specified.



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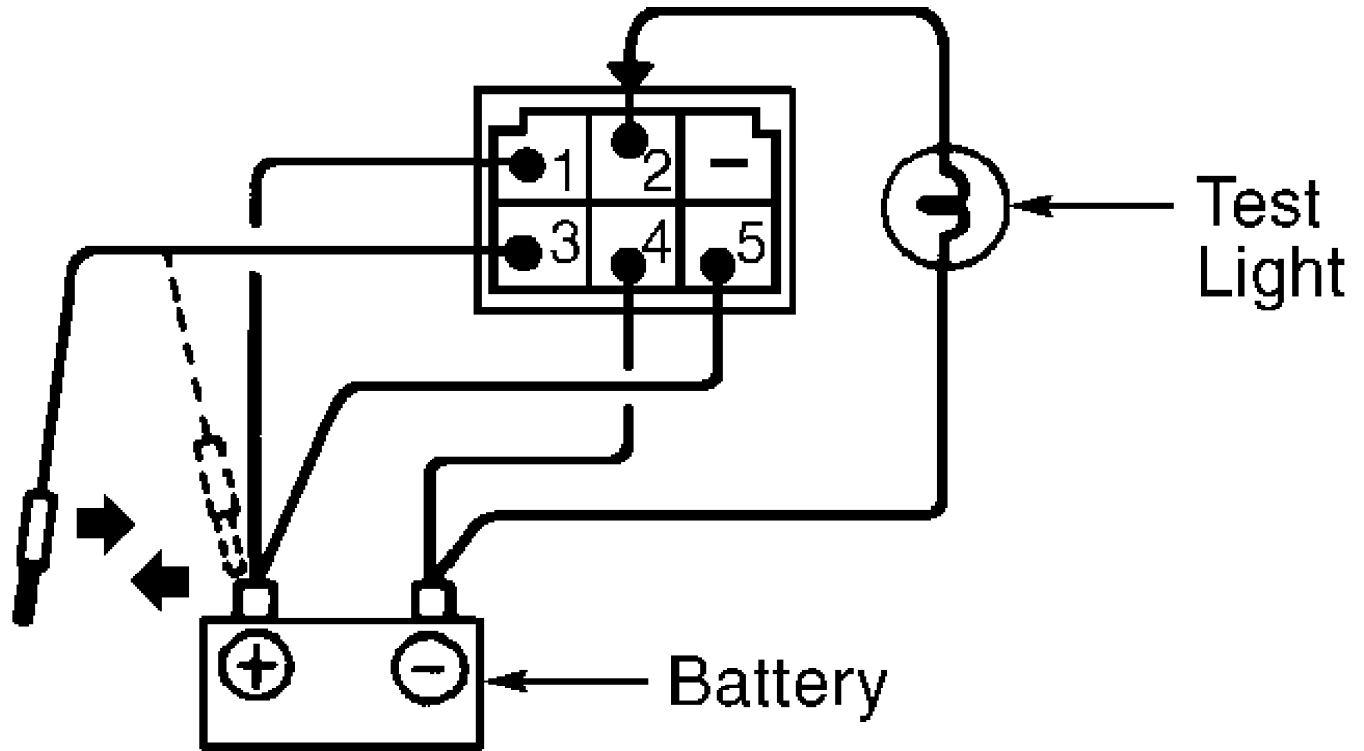
Fig. 2: Defogger Switch Terminal ID  
Courtesy of Mitsubishi Motor Sales of America.

#### DEFOGGER TIMER TEST

1) Remove defogger timer from interior relay block. Connect battery voltage and test light to timer. See Fig. 3. Ensure test light

illuminates for approximately 11 seconds when battery voltage is applied to terminal No. 3.

2) Reapply battery voltage to terminal No. 3. and observe test light. Test light should go off. Replace timer if it does not test as specified.



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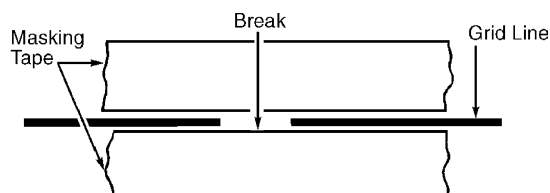
Fig. 3: Defogger Timer Terminal ID  
Courtesy of Mitsubishi Motor Sales of America.

### GRID TEST

1) Start and run engine at 2000 RPM. Ensure battery is fully charged. Turn defogger switch to ON position. Using a voltmeter, check voltage at center section of each grid filament.

2) If voltage is approximately 6 volts, grid filament is okay. If voltage is approximately 12 volts, an open is present in the negative circuit. Move probe slowly toward the negative terminal to determine location of open circuit.

3) If voltage is zero volt, an open is present in the positive circuit. Move probe slowly toward the positive terminal to determine location of open circuit. Repair grid as necessary. See Fig. 4.



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Fig. 4: Repairing Rear Defogger Grid Element

## **WIRING DIAGRAMS**

See appropriate chassis wiring diagram in the WIRING DIAGRAMS section.