

DEFOGGER - REAR WINDOW

Article Text

1992 Mitsubishi Mirage

For a a a a

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Monday, April 01, 2002 09:57AM

ARTICLE BEGINNING

1992 ACCESSORIES & SAFETY EQUIPMENT

Chrysler Motors/Eagle/Mitsubishi Defoggers - Rear Window

Dodge: Colt, Colt 200, Stealth

Eagle: Summit, Summit Wagon

Mitsubishi: Diamante, Eclipse, Expo/Expo LRV,

Galant, Mirage, Montero, 3000GT

Plymouth: Colt, Colt Vista

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.

INDICATOR LIGHT DOES NOT WORK

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

DEFOGGER TIMER INOPERATIVE

Check defogger switch. Timer is integrated into defogger switch.

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 SWITCH TEST

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

Colt, Colt 200, Mirage & Summit

Turn defogger switch to OFF position. Check switch continuity using ohmmeter. Continuity should be present between terminals No. 3 and 6. See Fig. 1. Turn defogger switch to ON position. Continuity

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should be present between terminals No. 1 and 5, 2 and 4, and between terminals No. 3 and 6.

Diamante

Turn defogger switch to OFF position. Check switch continuity using ohmmeter. Continuity should be present between terminals No. 1 and 4, and terminals No. 2 and 5. Turn defogger switch to ON position. Continuity should exist between terminals No. 1, 4 and 6, and between terminals No. 2 and 5. See Fig. 3.

Eclipse

Turn defogger switch to OFF position. Check switch continuity using ohmmeter. Continuity should be present between terminals No. 1 and 5, and terminals No. 2 and 6. Turn defogger switch to ON position. Continuity should be present between terminals No. 3 and 4, 1 and 5, and between terminals No. 2 and 6. See Fig. 3.

Colt Vista, Expo/Expo LRV & Summit Wagon

Turn defogger switch to OFF position. Check switch continuity using ohmmeter. Continuity should be present between terminals No. 1 and 2. Turn defogger switch to ON position. Continuity should exist between terminals No. 1, 2 and 4. See Fig. 4.

Galant

Turn defogger switch to OFF position. Check switch continuity using ohmmeter. Continuity should be present between terminals No. 1 and 4, and terminals No. 5 and 6. Turn defogger switch to ON position. Continuity should exist between terminals No. 2 and 3, 5 and 6, and between terminals No. 1 and 4. See Fig. 3.

Montero

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. 3.

Stealth & 3000GT

1) Remove defogger switch assembly from instrument cluster bezel. With defogger switch in OFF position, check switch continuity using ohmmeter.

2) Continuity should exist between terminals No. 3 and 4. With defogger switch in ON position, continuity should exist between terminals No. 1 and 2, 1 and 6, and between terminals No. 3 and 4. See Fig. 2.

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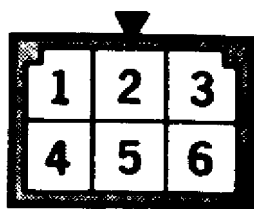
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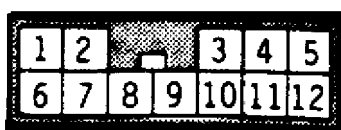
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COLT, COLT 200,
MIRAGE & SUMMIT

93H02856

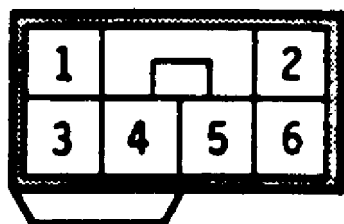
Fig. 1: Defogger Switch Terminal ID (Colt, Colt 200, Mirage & Summit)
Courtesy of Chrysler Motors.



STEALTH & 3000GT

93J02857

Fig. 2: Defogger Switch Terminal ID (Stealth & 3000GT)
Courtesy of Chrysler Motors.



DIAMANTE, ECLIPSE,
GALANT & MONTERO

93B02858

Fig. 3: Defogger Switch Terminal ID (Diamante, Eclipse, Galant & Montero)
Courtesy of Chrysler Motors.



EXPO, SUMMIT WAGON
& VISTA WAGON

93D02859

Fig. 4: Defogger Switch Terminal ID (Colt Vista, Expo/Expo LRV & Summit Wagon)
Courtesy of Chrysler Motors.

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DEFOGGER RELAY TEST

Colt, Colt 200, Mirage & Summit

1) Remove defogger relay located to the right of fuse block. Ground relay terminal No. 4, and apply battery voltage to terminal No. 2. Check relay continuity using ohmmeter.

2) Continuity should exist between terminals No. 1 and 3. With voltage disconnected, continuity should not be present between terminals No. 1 and 3. Ensure continuity is present between terminals No. 2 and 4. See Fig. 5.

Eclipse

1) Remove defogger relay located to the right of fuse block. Ground relay terminal No. 4, and apply battery voltage to terminal No. 2. Check relay continuity using ohmmeter.

2) Continuity should exist between terminals No. 1 and 2. With voltage disconnected, continuity should not be present between terminals No. 1 and 2. Ensure continuity is present between terminals No. 3 and 4. See Fig. 6.

Diamante, Montero, Stealth & 3000GT

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. 6.

Galant

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

2) Continuity should exist between terminals No. 4 and 5. With voltage disconnected, continuity should not exist between terminals No. 4 and 5. Ensure continuity exists between terminals No. 1 and 3. See Fig. 7.

Expo/Expo LRV

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

2) Continuity should exist between terminals No. 2 and 5. With voltage disconnected, continuity should not exist between terminals No. 2 and 5. Ensure continuity exists between terminals No. 1 and 3. See Fig. 8.

Colt Vista & Summit Wagon

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

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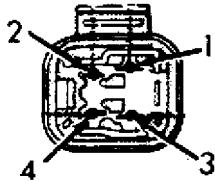
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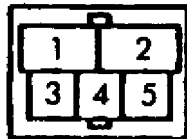
2) Continuity should exist between terminals No. 2 and 5. With voltage disconnected, continuity should not exist between terminals No. 2 and 5. Ensure continuity exists between terminals No. 1 and 3. See Fig. 8.



COLT, COLT 200,
MIRAGE & SUMMIT

93F02860

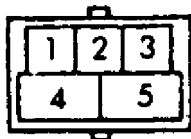
Fig. 5: Defogger Relay Terminal ID (Colt, Colt 200, Mirage & Summit)
Courtesy of Chrysler Motors.



DIAMANTE, ECLIPSE,
MONTERO, STEALTH
& 3000GT

93H02861

Fig. 6: Defogger Relay Terminal ID (Diamante, Eclipse, Montero,
Stealth & 3000GT)
Courtesy of Chrysler Motors.



GALANT

92J02862

Fig. 7: Defogger Relay Terminal ID (Galant)
Courtesy of Chrysler Motors.

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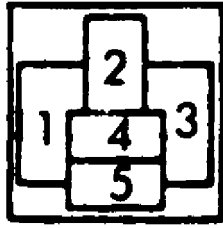
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EXPO, SUMMIT WAGON & VISTA WAGON

93B02863

Fig. 8: Defogger Relay Terminal ID (Colt Vista, Expo/Expo LRV & Summit Wagon)

Courtesy of Chrysler Motors.

DEFOGGER TIMER TEST

NOTE: Information for defogger timer test on Colt Vista, Diamante, Expo/Expo LRV, Stealth, Summit Wagon and 3000GT is not available from manufacturer.

Eclipse, Galant & Montero

1) Remove defogger timer from interior relay block. Connect battery voltage and test light to timer. See Fig. 9 and 10. Ensure test light illuminates for approximately 11 seconds when battery voltage is applied to terminal No. 3 (terminal No. 4 on Galant).

2) Reapply battery voltage to terminal No. 3 (terminal No. 4 on Galant) and observe test light. Test light should go off.

Colt, Colt 200, Mirage & Summit

1) Remove defogger timer from junction block under left side of instrument panel. Connect a battery and test light to defogger timer terminals. See Fig. 11. Apply battery voltage to terminal No. 7 for a few seconds.

2) Ensure test light illuminates for approximately 10 seconds. Reapply battery voltage to terminal No. 7. Test light should go off when voltage is applied again.

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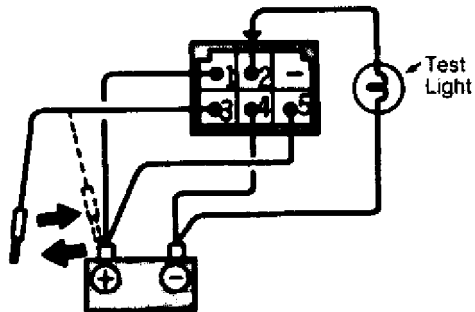
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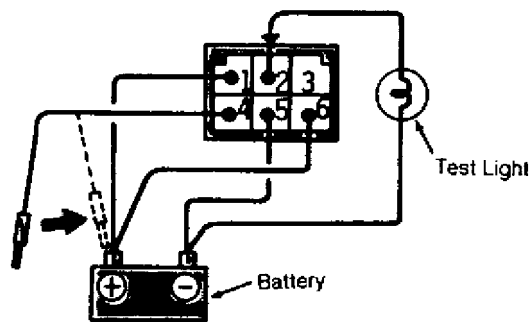
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ECLIPSE & MONTERO

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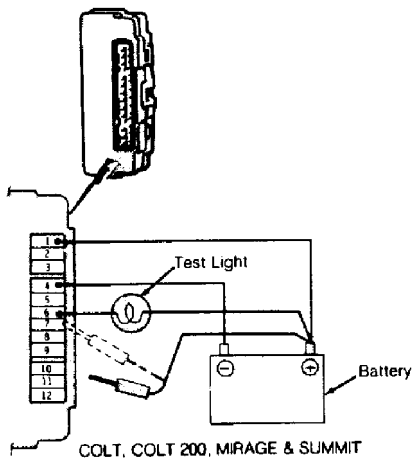
Fig. 9: Defogger Timer Terminal ID (Eclipse & Montero)
Courtesy of Chrysler Motors.



GALANT

93G02865

Fig. 10: Defogger Timer Terminal ID (Galant)
Courtesy of Chrysler Motors.



COLT, COLT 200, MIRAGE & SUMMIT

93I02866

Fig. 11: Defogger Timer Terminal ID (Colt, Colt 200, Mirage & Summit)
Courtesy of Chrysler Motors.

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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.

WIRING DIAGRAMS

See appropriate chassis wiring diagram in the WIRING DIAGRAMS Section.

END OF ARTICLE