

ENGINE COOLING FAN

1994 Mitsubishi 3000GT

1994 ENGINE COOLING
Specifications & Electric Cooling Fans

Chrysler Corp.: Stealth
Mitsubishi: Diamante, 3000GT

ELECTRIC COOLING FAN

COMPONENT TESTING

Motor

Disconnect electric cooling fan motor at junction. Using 2 jumper wires, ground one lead and apply battery voltage to other. Fan should rotate. If fan does not rotate, replace motor.

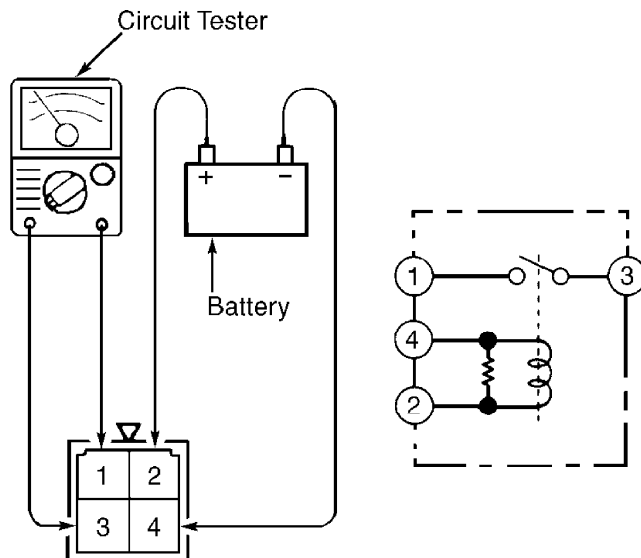
Radiator Fan Switch

Using an ohmmeter, check switch continuity in hot water. Switch should be open at less than 180°F (82°C) and continuity should exist at more than 185°F (85°C). Replace radiator fan switch if it does not test as specified.

Electric Cooling Fan Relay

1) Remove radiator fan motor relay from relay box located at right side of engine compartment. Check for continuity between terminals with battery power applied to terminal No. 2 and terminal No. 4 grounded. See Fig. 1.

2) With power on, there should be continuity between terminals No. 1 and 3. With power disconnected, there should be no continuity between terminals No. 1 and 3, and there should be continuity between terminals No. 2 and 4. Replace relay if it does not test as specified.



92E00021

Fig. 1: Testing Electric Cooling Fan Relay
Courtesy of Mitsubishi Motor Sales of America.

SYSTEM TESTING

NOTE: For appropriate wiring diagram, see WIRING DIAGRAMS.

Diamante

1) With ignition on, A/C switch off and engine coolant temperature greater than 185°F (85°C), thermosensor completes path to ground, closing radiator fan motor relay contacts and providing current to radiator fan motor (low) but not condenser fan motor. With coolant temperature 208°F (98°C), current path will turn both radiator and condenser fans on high.

2) With ignition on, A/C switch on and coolant temperature less than 185°F (85°C), radiator and condenser fans are on low. With coolant temperature over 185°F (85°C), radiator and condenser fans run on high.

Stealth & 3000GT

With ignition on and engine coolant temperature greater than 185°F (85°C), thermosensor completes path to ground, closing radiator fan motor relay contacts and providing current to radiator fan.

WIRING DIAGRAMS

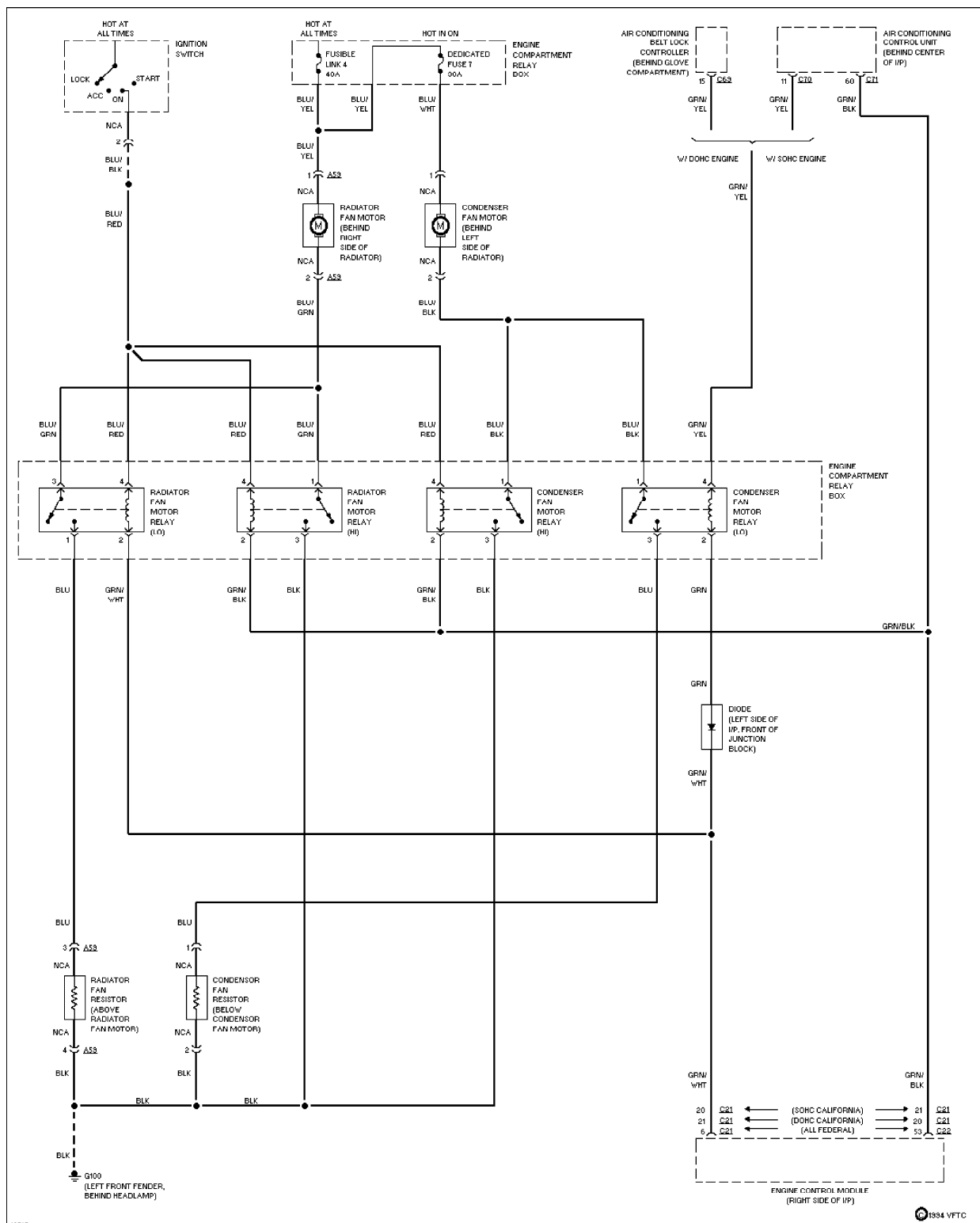


Fig. 2: Electric Cooling Fan System (Diamante)

