

CIRCUIT OPERATION

The Coolant Fan is turned on and off by the Electronic Control Module (ECM) based on inputs from the Coolant Temperature Sensor, Vehicle Speed Sensor and the A/C Coolant Fan Switch (if equipped). Battery voltage is applied at all times to terminal "E" of the Coolant Fan Relay and when the Ignition Switch is in "RUN," battery voltage is applied to terminal "D" of the relay. The ECM energizes the Coolant Fan Relay by grounding CKT 409. The relay energizes, and battery voltage is applied to the Coolant Fan Motor. See DRIVEABILITY AND EMISSIONS (SEC 6E) for specific conditions of the Coolant Fan operation.

The Secondary Coolant Fan operates similar to the Primary Coolant Fan. The Secondary Fan is turned on and off by the Electronic Control Module (ECM) based on the input from the A/C Coolant Fan Switch.

When the A/C Coolant Fan Switch is open (above 190 psi), the switch removes ground to the A/C Coolant Fan Switch input at the ECM. The ECM then grounds the Secondary Coolant Fan Relay coil, closing the relay contacts and turning on the Secondary Coolant Fan Motor.

Voltage is applied at all times to the Secondary Coolant Fan Relay contacts by Fusible Link E. Voltage is supplied to the Secondary Coolant Fan Relay coil when the Ignition Switch is in "RUN," "BULB TEST" or "START."