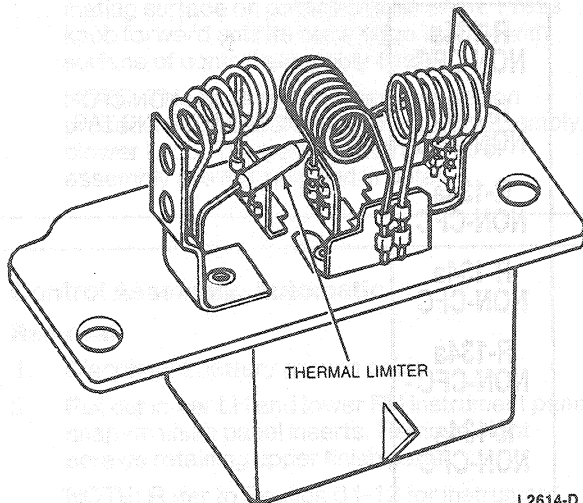


## DESCRIPTION AND OPERATION (Continued)

**Thermal Limiter Resistor Assembly**

The thermal limiter resistor assembly is similar to a standard resistor assembly, except an overheating protective device (thermal limiter) has been added to prevent heat damage to the evaporator case assembly. Overheating of the resistor coil(s) will occur when the system airflow is stopped as a result of the blower wheel being locked.

When the thermal limiter resistor circuit has opened as a result of excessive heat, it should be replaced only with an identical replacement thermal limiter resistor assembly. It must not be substituted with a standard resistor assembly which does not include a thermal limiter device.

**Thermal Limiter**

The thermal limiter, used in the thermal limiter resistor assembly, serves as a temperature protecting fuse. Located a predetermined distance from the resistor coils and in series with the coil circuit, it will open the resistor coil circuit when the temperature of the thermal limiter reaches 121°C (250°F) interrupting blower operation in all speeds except high blower. Internal spring-loaded contacts are held closed with wax material which has a melting point of 121°C (250°F). When the wax softens, the spring contacts separate, opening the resistor circuit. The spring contacts cannot be closed again. It will be necessary to replace the entire thermal limiter resistor assembly.

**Register Assemblies**

The rectangular register assembly consists of a set of horizontal louvers in front and a set of vertical louvers behind the front louvers. The control knob moves up and down and slides side-to-side to direct air in all directions.

**Register Assemblies, LH****Sable**

The assembly is an integral part of the cluster finish panel with the housing moulded as part of it. A knob, located on the RH side, controls an air shutoff door installed in the register housing assembly.

**Register Assembly, RH****Taurus/Sable**

The housing has four flexible tabs (two on the top and two on the bottom) that lock the assembly into the instrument panel. A knob, located on the LH front of the register assembly, controls an outlet shutoff door installed in the register housing assembly.

**Register Assembly, LH and Center****Taurus**

The assemblies are a part of the cluster finish panel and attached to the panel with two screws for the LH assembly and two screws and two heat stakes for the center assembly. A knob, located on the RH front of the register assembly, controls an air outlet shutoff door installed in the register housing assemblies.

**Register Assembly, Center****Sable**

The two center assemblies are an integral part of the center finish panel (moulded as a part of it) and attached to the instrument panel. Knobs located on the edges of the finish panel, control air shutoff doors installed in the register housing assembly.

**Refrigerant System**

Refer to Section 12-00 for a description and service procedures for refrigerant system components.

**Constant Control Relay Module (CCRM)**

A constant control relay module (CCRM) is used on all engines with air conditioning. The CCRM cycles the engine cooling fan on whenever the A/C compressor is operating. The controller also allows for engine cooling fan operation whenever the engine coolant temperature reaches approximately 105°C (221°F).

The CCRM is located on the radiator support. A schematic of the electrical components and circuits involved is shown in previous CCRM circuit and pinouts illustration.

## DIAGNOSIS AND TESTING

Refer to Section 12-00.