CHRYSLER CORP. ELECTRIC ASSIST CHOKE

DESCRIPTION

All Light Duty emissions models are equipped with an electric assist choke system to help control hydrocarbon (HC) and carbon monoxide (CO) emissions and to shorten warm-up time. The electric assist choke system consists of an electric heating element, a bimetal spring, a thermostatic choke coil and connecting linkage.

OPERATION

The choke thermostatic coil spring reacts to engine temperature; however, an electric heating element (located next to a bimetal spring inside the choke well) will assist engine heat during both summer and winter operations to shorten choke on time.

This single-stage electric assist choke is designed to give a more rapid choke opening at temperatures above about 60°F, and slower choke opening below this temperature.

A wire from the choke heater is connected to an electrical control switch. Above 60°F, the control switch will energize the choke heater.

Since the heater control switch is mounted to the engine, some cold weather operation may energize the choke heater. This could occur after the choke has opened without benefit of electric heat. No adverse reaction will occur.

TESTING

CONTROL SWITCH TEST

1) Check test light, before starting test, by connecting between battery terminals. Note light intensity.

2) Before starting engine, detach ignition harness electrical connector from heater control switch.

3) Connect test light to load (choke) terminal of control switch and to ground.

4) Start engine and allow to reach normal operating temperature.

5) Apply 12 volts to ignition harness terminal of control switch. If test light does not light or have same intensity as when first tested, control switch is defective and must be replaced.

CHOKE HEATING ELEMENT TEST

1) Disconnect only the B+ wire at the control switch. Connect an ohmmeter lead to the choke housing or choke retainer screw.

2) Touch other meter lead to a bare portion of choke wire connector at switch (not B+ terminal). A meter reading of 4 to 12 ohms indicates heater is electrically functional. An open or short circuit are cause for installing a new choke assembly.

NOTE – *Heater element must not be immersed in any fluid, as an electrical short to choke heater is also a short circuit to ignition system.*

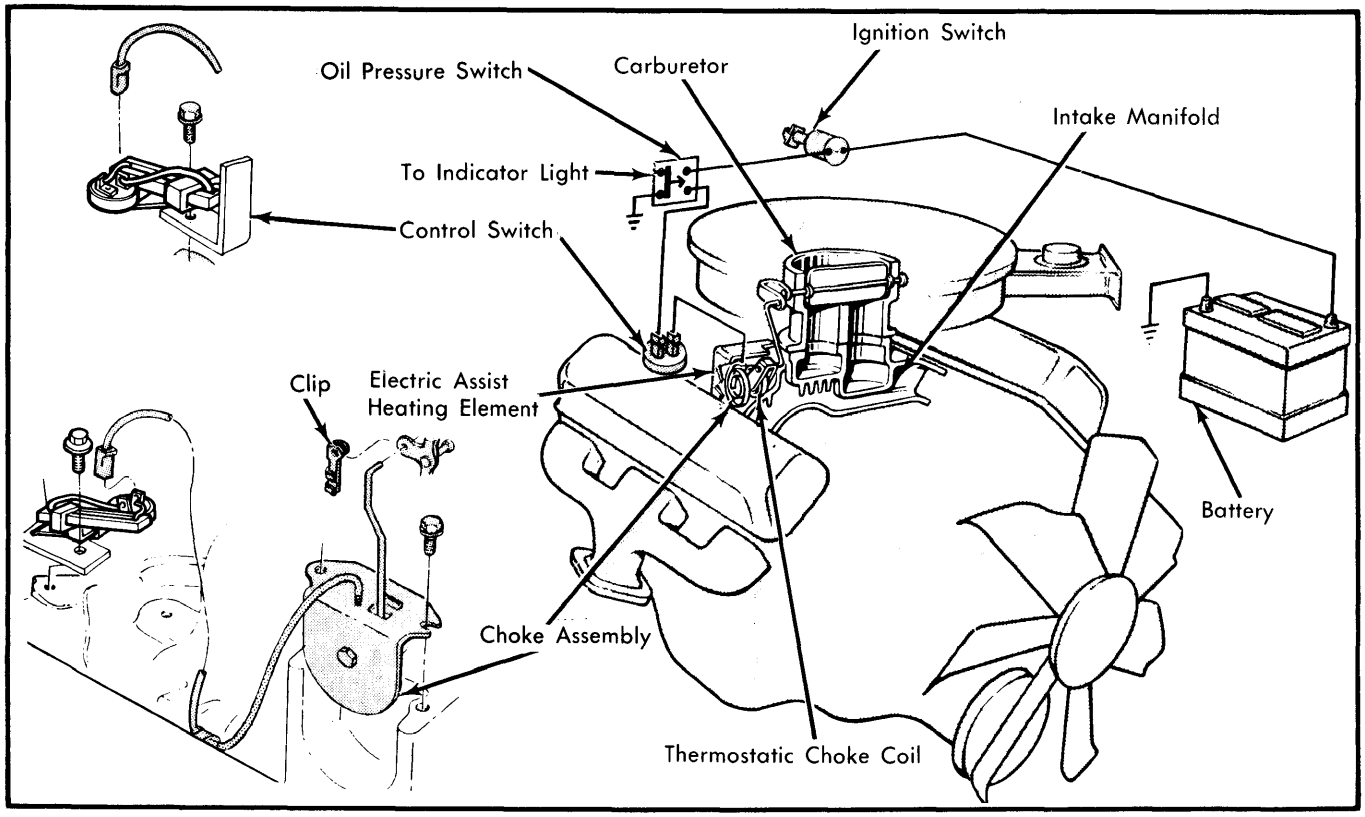

Fig. 1 Chrysler Corp. Electric Assist Choke System