1982 Exhaust Emission Systems

CHRYSLER CORP. ELECTRIC ASSIST CHOKE

DESCRIPTION

All Light Duty Emission models are equipped with an electric assist choke system. This system helps to 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) assists 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 60°F (16°C), and slower choke opening below this temperature.

A wire from the choke heater is connected to an electrical control switch. Above 60°F (16°C), the control switch energizes the choke heater.

Since the heater control switch is mounted on 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) Before starting test, check test light by connecting it to 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 it to reach normal operating temperature.

5) Apply 12 volts to ignition harness terminal of control switch. If test light does not light or have the same original intensity, replace defective control switch.

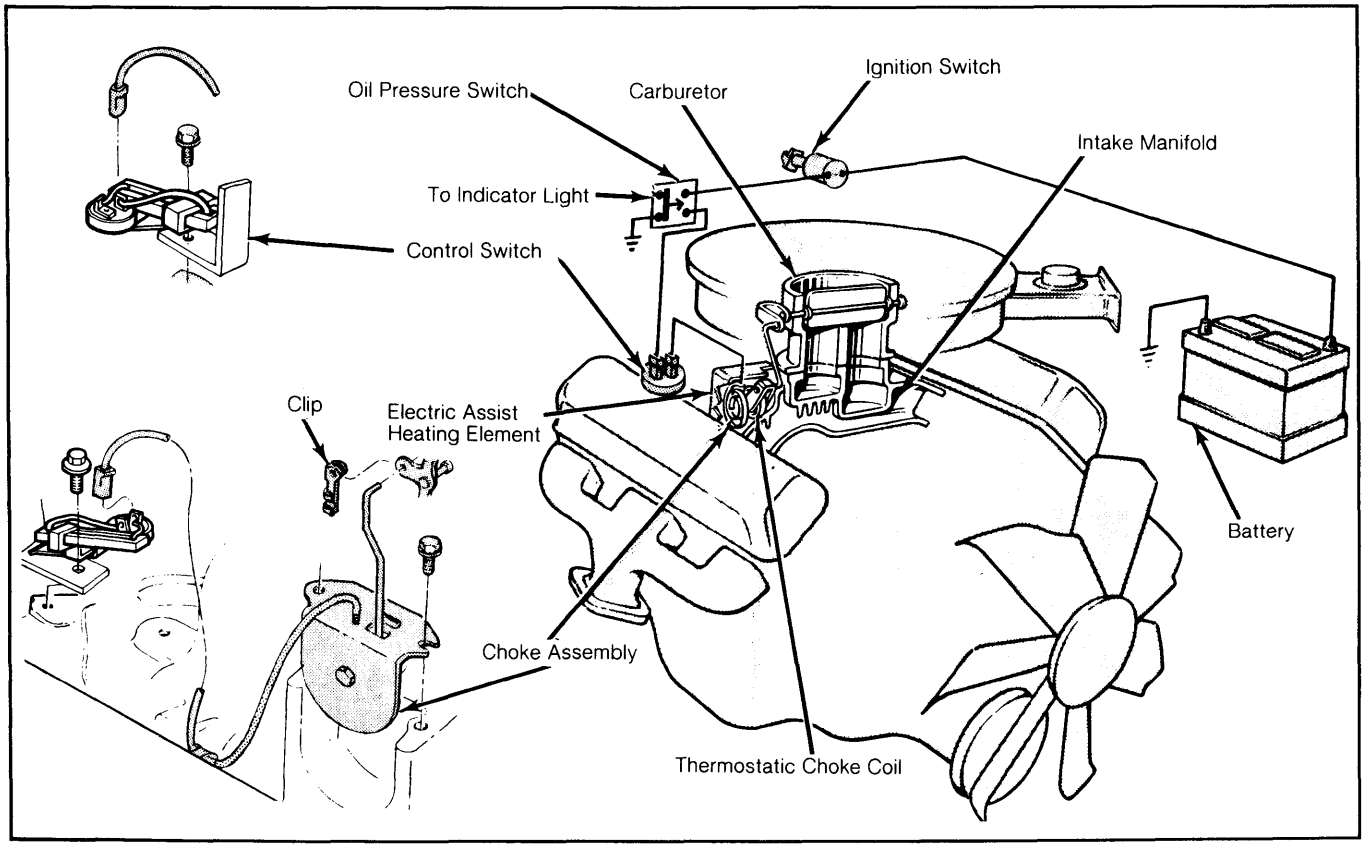
CHOKE HEATING ELEMENT TEST

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. If circuit is open or shorted, install a new choke assembly.

NOTE: Never immerse heater element in any fluid, as an electrical short to the choke heater is also a short circuit to the ignition system.

Fig. 1: Electric Assist Choke System



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