

1975-79 EXHAUST EMISSION SYSTEMS

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 engine warm-up time. The electric assist choke system consists of an electric heating element, a bimetallic spring, a thermostatic choke coil and connecting linkage.

OPERATION

The choke thermostatic coil spring reacts to engine temperature at exhaust crossover in intake manifold. An electric heating element (located next to a bimetallic spring inside the choke well) assists engine heat.

This single-stage electric assist choke is designed to give a more rapid choke opening at temperatures above approximately 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.

TESTING

CONTROL SWITCH TEST

- 1) Connect a test light between battery terminals. Note light intensity. Before starting engine, detach ignition harness electrical connector from heater control switch.
- 2) Connect test light to load (choke) terminal of control switch and ground. Start engine and allow to reach normal operating temperature.
- 3) Apply 12 volts to ignition harness terminal of control switch. If test light does not light or have same intensity as when connected to battery terminals, 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 ohmmeter lead to a bare portion of choke wire connector at switch (not B+ terminal). An ohmmeter reading of 4-12 ohms indicates heater is okay. If ohmmeter indicates an open or short circuit, replace 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.

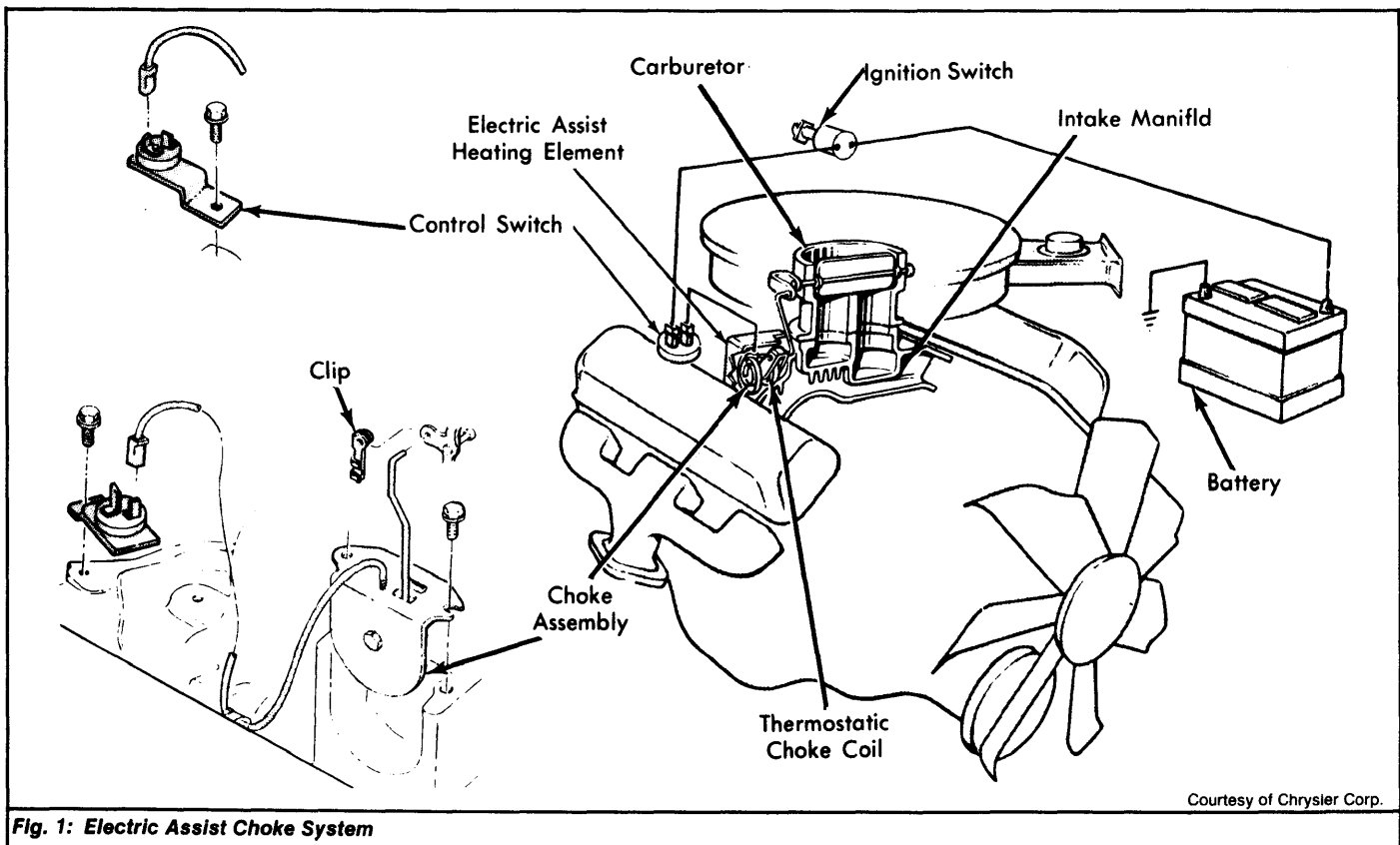


Fig. 1: Electric Assist Choke System