

Exhaust Emission Systems

CHRYSLER CORP. ELECTRIC ASSIST CHOKE

DESCRIPTION

The electric assist choke is designed to give faster choke openings at temperatures above 60°F, and slower choke openings below 60°F. System consists of two components, a choke heater element and a temperature control switch.

OPERATION

When ignition switch is turned "ON", power is supplied to temperature control switch. Temperature control switch senses engine temperature and will open or close switch contacts, thereby controlling electric current to choke heater element. Engines started in winter conditions will experience three levels of choke heat; LOW during warm-up, HIGH after engine warm-up and NONE well after engine warm-up. Below 58°F control switch will provide choke heater with partial power. Above 58°F it will provide choke heater with full power. At approximately 110°F it will turn off power. Engines started in summer temperatures will not experience low choke heat level. Engines restarted hot may only experience the no-load condition, since control switch may be warmer than 110°F. The resistor will be hot when in use.

TESTING

Choke Control Switch – 1) Check test light by connecting it between battery terminals of car battery. Take careful note of intensity of bulb.

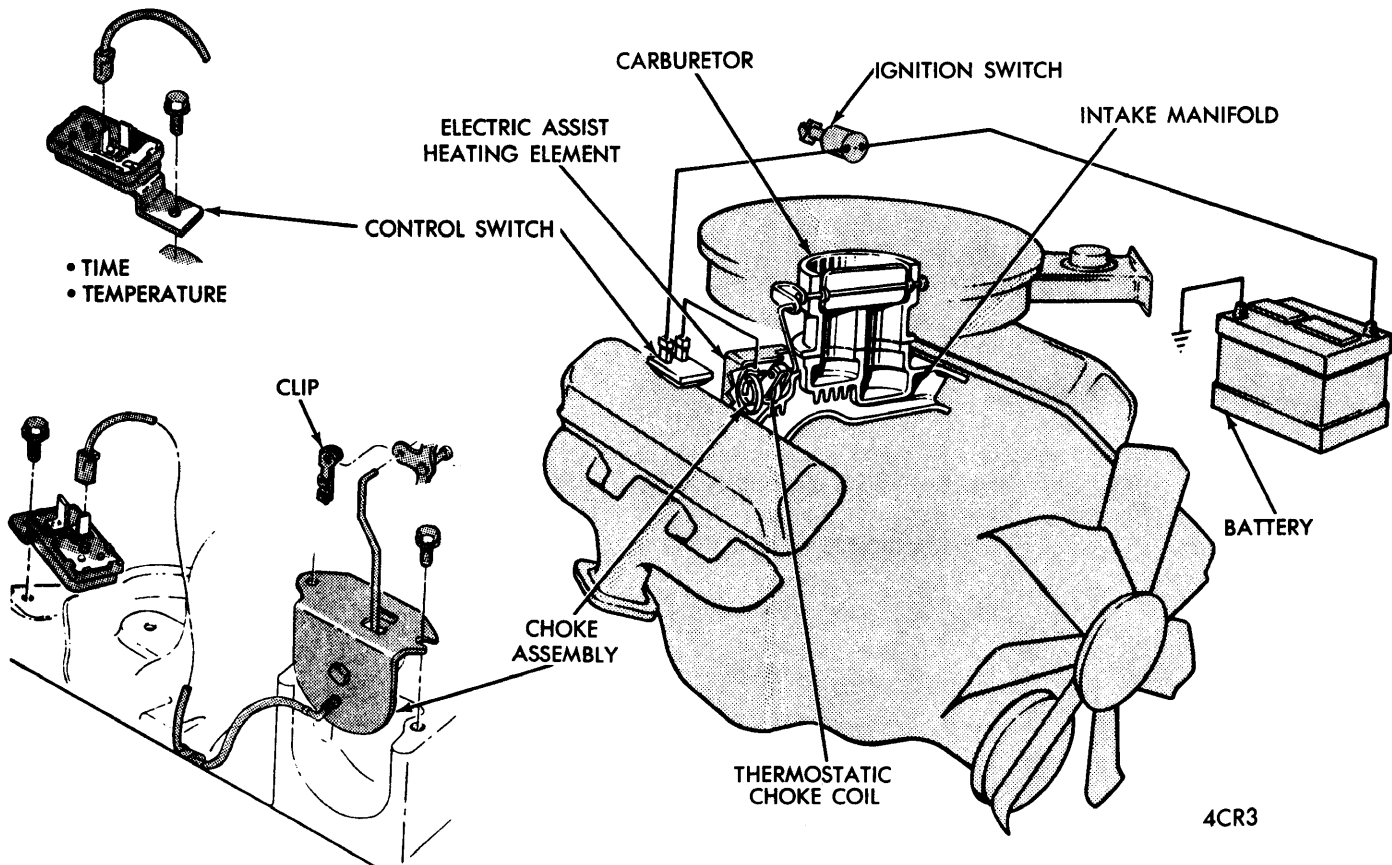
2) before starting engine, remove "BAT" electrical connector from control switch. Connect test light to load (small) terminal of control switch and to ground.

3) Start engine and allow it to reach normal operating temperature. Then apply 12 volts to "BAT" terminal of control switch as follows; test light must light and have same intensity as step one above. If intensity is lower, unit is defective and must be replaced. Test light must light and if it has same intensity as step one, it may remain lit for only a few seconds or it may remain lit for a long duration, but must not remain lit for longer than five minutes. If it remains lit for longer than five minutes, control switch is defective and must be replaced.

Choke Heater Element – 1) Disconnect only B+ wire at 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 (two different releases) 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.



ELECTRIC ASSIST CHOKE SYSTEM