1974-79 EXHAUST EMISSION SYSTEMS
Ford Motor Co. Electric Assist Choke

1975-78 Capri, Capri II

DESCRIPTION

All passenger cars use an electrically heated choke thermostatic spring housing as an aid to fast choke release during engine warm-up. Heaters are of two types, temperature sensitive and constant operating. Both types operate from center top of alternator, only when engine is actually running. Choke system consists of a choke cap, thermostatic spring, bimetallic temperature sensing disc (switch) and a ceramic Positive Temperature Coefficient (PTC) heater.

OPERATION

At temperatures below approximately 60°F (16°C), temperature switch is open and no current is supplied to ceramic heater. Normal thermostatic spring choking action then occurs. At temperatures above 60°F (16°C), temperature switch closes and current is supplied to heater. As heater warms, it causes thermostatic spring to pull choke open.

TESTING

1) Disconnect stator lead from choke cap terminal and connect one lead of a test light. Ground other lead of test light, light should glow with engine running. If light does not glow, check alternator output and choke wire for open circuit.
2) If light glows, disconnect test lead from ground and connect it to the choke lead connector. With engine warm and coolant flowing, test light should glow. If not choke unit is defective and should be replaced.
3) If choke electric system passed these tests, stop engine and remove test light. Disconnect water hoses from choke housing and connect a Choke Tester (Rotunda LRE-34618) to one of the choke housing hoses. Cool choke housing until bimetal closes the choke plate lightly in carburetor air horn. Throttle plate should be 1/4 open during tests.
4) If choke plate is not lightly closed after five minutes, tap lightly and continue. If choke plate does not close in 10 minutes, check for binding and correct as required.
5) Using suitable ohmmeter, check continuity between choke cap terminal and ground at the choke bimetal housing. The resistance should be within specifications, if not repeat electric continuity check with new choke cap and correct as required.

CHOKE SPECIFICATIONS

Application	Resistance (Ohms)
2300 cc Engine	1.5-3.5
2800 cc Engine	.8-4.0

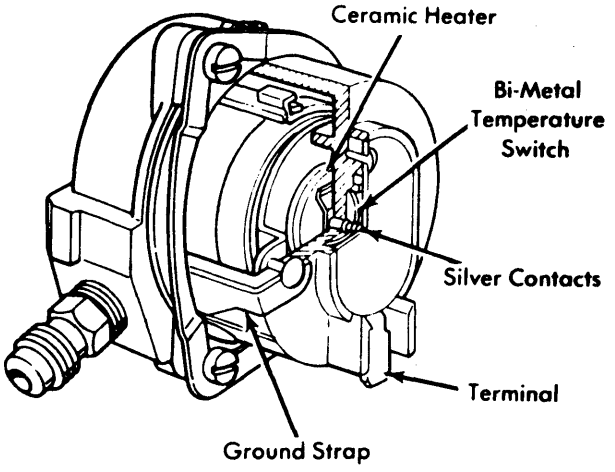

Fig. 1: Cutaway View of Electric Assisted Choke