1973-74 FORD MOTOR CO. ELECTRIC ASSIST CHOKE

DESCRIPTION

Choke system incorporates 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 tap of alternator, only when engine is actually running. Choke system consists of a choke cap, thermostatic spring, bi-metal temperature sensing disc (switch) and a ceramic positive temperature coefficient (PTC) heater.

OPERATION

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

SYSTEM CHECKING

Electric Assist Choke (Exc. Pinto & Mustang) – 1) Check choke plate, all linkages and spark delay valve for proper operation. Remove hot air supply hose at choke housing and install suitable choke tester (LRE-34618). Perform hot and cold choke function per instructions in tester kit.

2) Engine running, disconnect stator lead and connect a 0-3 amp ammeter between choke lead and stator. Start engine and observe current draw.

3) Cool choke cap until temperature is less than 55°F, using suitable choke tester (Rotunda). There should be no current flow. If a current flow is noted, cap is defective.

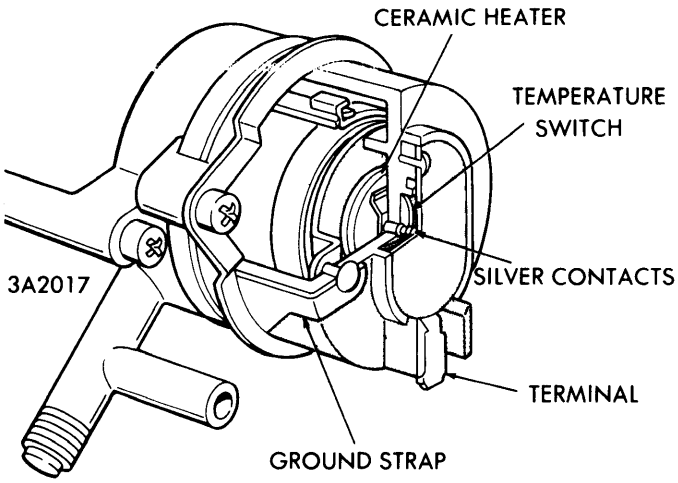
4) Operate engine approximately five minutes. A current reading of .3-1.0 amps should be noted (at five minutes). If specifications are not met, replace choke cap.

Electric Assist Choke (Pinto & Mustang) – 1) Check choke plate, all linkages and spark delay valve for proper operation. With engine running, disconnect stator lead at choke cap and connect a 0-3 amp ammeter between choke cap and stator.

2) Start engine and operate for approximately five minutes. Current flow must be .3-.75 amps (at five minutes).

3) If no current draw is noted, check alternator for proper operation. Electric choke is out of specifications if above conditions are not met, replace choke cap.

4) Verify engine coolant is flowing through choke housing. Housing should be hot. If not, check hoses for restrictions.



ELECTRIC ASSISTED CHOKE