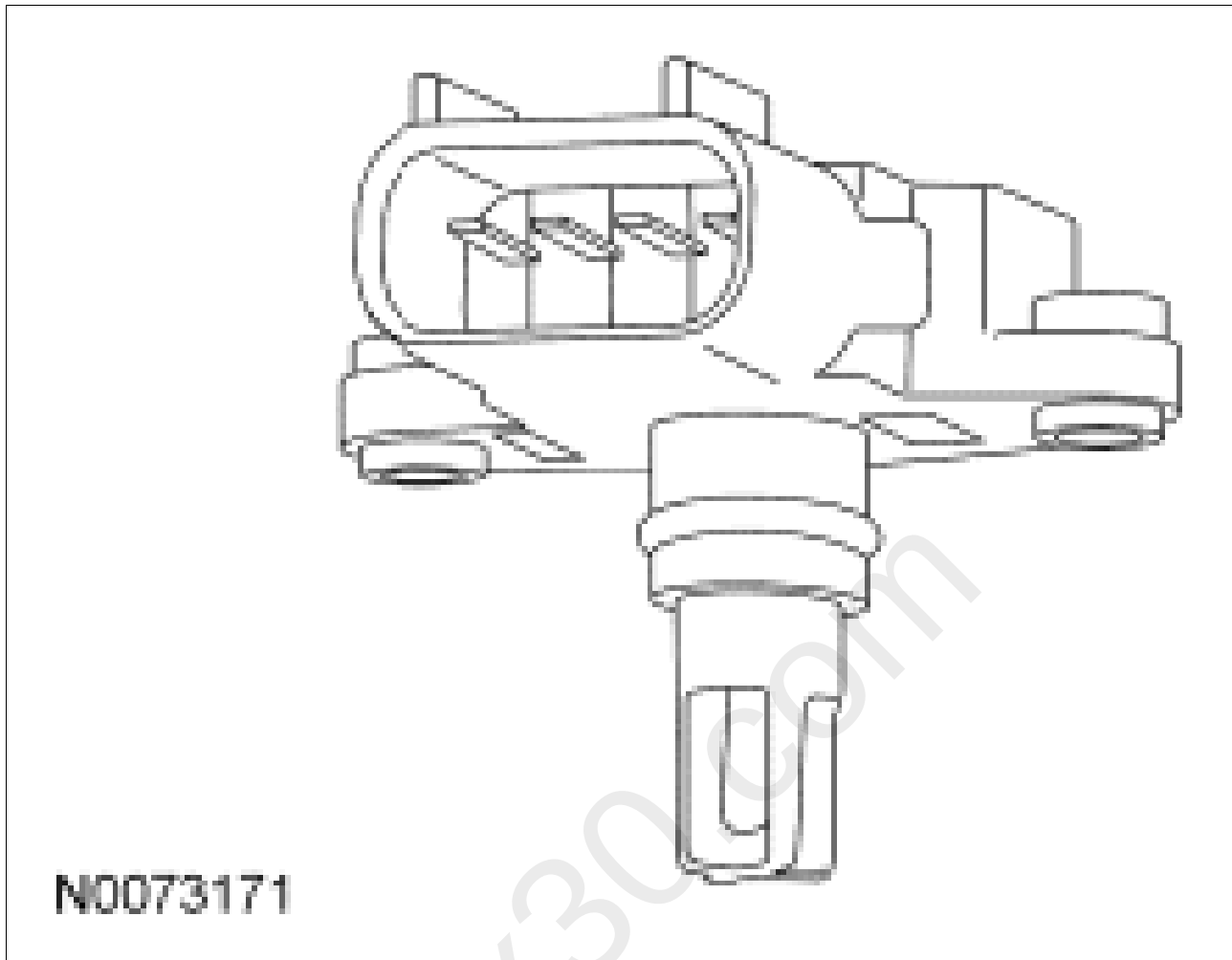


Fig 1: Identifying CACT Sensor Integrated With TCBP Sensor



Courtesy of FORD MOTOR CO.

ENGINE CONTROL COMPONENTS > CHARGE AIR COOLER (CAC) COOLING FAN

The PCM monitors certain parameters (such as manifold pressure, charge air temperature, and engine coolant temperature) to determine CAC cooling fan needs. The CAC cooling fan is relay controlled by the PCM. The PCM controls the CAC cooling fan operation with the CACCF circuit through the CAC cooling fan relay.

ENGINE CONTROL COMPONENTS > CHARGE AIR COOLER (CAC) COOLANT TEMPERATURE SENSOR

The CAC coolant temperature sensor is a thermistor device in which resistance changes with the temperature. The resistance of a thermistor decreases as temperature increases, and the resistance increases as the temperature decreases. The varying resistance affects the voltage drop across the sensor terminals and provides electrical signals to the PCM corresponding to temperature.

Thermistor-type sensors are considered passive sensors. A passive sensor is connected to a voltage