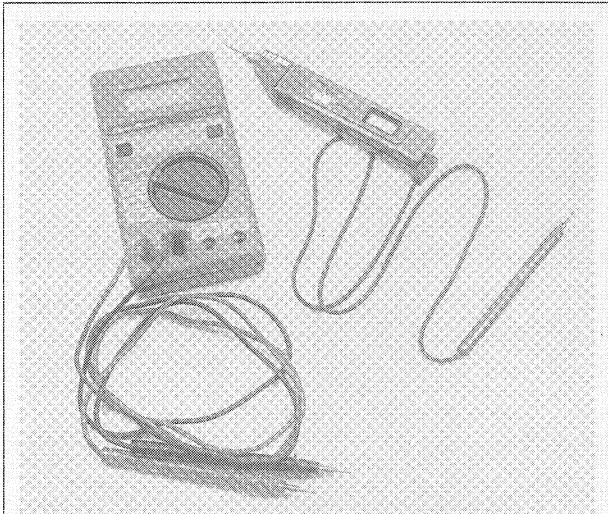


## DIAGNOSTIC TEST EQUIPMENT

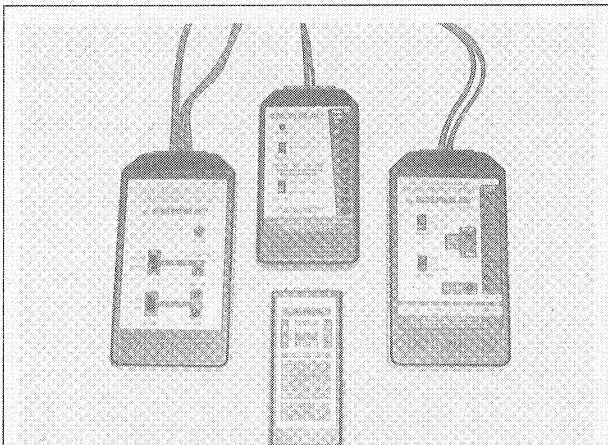


**Digital multimeters** come in a variety of styles and are a "must-have" for any serious home mechanic. Digital multimeters measure voltage (volts), resistance (ohms) and sometimes current (amperes). These versatile tools are used for checking all types of electrical or electronic components

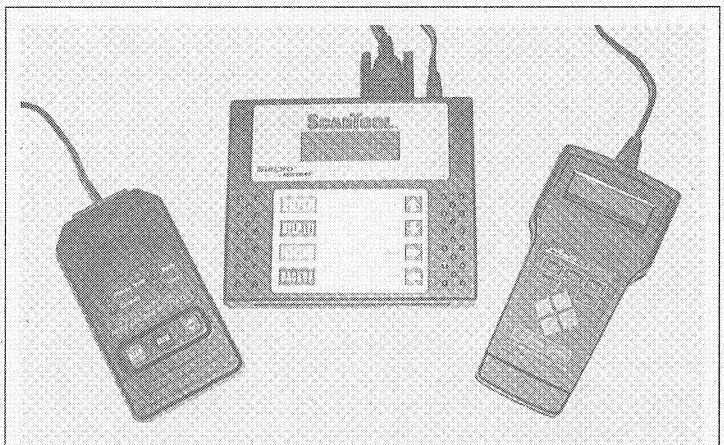
Modern vehicles equipped with computer-controlled fuel, emission and ignition systems require modern electronic tools to diagnose problems. Many of these tools are designed solely for the professional mechanic and are too costly and difficult to use for the average do-it-yourselfer. However, various automotive aftermarket companies have introduced products that address the needs of the average home mechanic, providing sophisticated information at affordable cost. Consult your local auto parts store to determine what is available for your vehicle.



**Trouble code tools** allow the home mechanic to extract the "fault code" number from an on-board computer that has sensed a problem (usually indicated by a Check Engine light). Armed with this code, the home mechanic can focus attention on a suspect system or component



**Sensor testers** perform specific checks on many of the sensors and actuators used on today's computer-controlled vehicles. These testers can check sensors both on or off the vehicle, as well as test the accompanying electrical circuits



**Hand-held scanners** represent the most sophisticated of all do-it-yourself diagnostic tools. These tools do more than just access computer codes like the code readers above; they provide the user with an actual interface into the vehicle's computer. Comprehensive data on specific makes and models will come with the tool, either built-in or as a separate cartridge