4. SPECIFICATIONS

1.7L THROTTLE BODY INJECTION

IGNITION

CRANK SENSOR COIL RESISTANCE500-700 OHMS

IGNITION COIL

SECONDARY WIRE RESISTANCE LESS THAN 15,000 OHMS

IGNITION TIMING IS CONTROLLED BY THE ELECTRONIC CONTROL MODULE AND IS NOT ADJUSTABLE.

FUEL

THROTTLE BODY INJECTION FUEL SYSTEM PRESSURE

(27-30 psi; 1.9-2.1 bar)

THROTTLE BODY INJECTION FUEL INJECTOR RESISTANCE1.42 TO 2.0Ω WHEN

MEASURED BETWEEN

20°C and 50°C

IDLE SPEED IS CONTROLLED BY THE ELECTRONIC CONTROL MODULE. WHEN ENGINE IS WARM, IDLE SPEED SHOULD BE WITHIN 50 REVOLUTIONS PER MINUTE* OF DESIRED IDLE SPEED.

* SEE TECH 1 SCAN DATA VALUES.

5. TORQUE SPECIFICATIONS

1.7L THROTTLE BODY INJECTION

TORQUE SPECIFICATIONS

THROTTLE BODY INJECTION ATTACH. BOLT/STUDS	17.0 N·m (12 lb. ft.)
FUEL LINE NUTS AT CONNECTION POINT TO THROTTLE BODY INJECTION ASSEMBLY	27.0 N-m (20 lb. ft.)
FUEL LINE NUTS AT FUEL FILTER	27.0 N·m (20 lb. ft.)
FUEL PRESSURE REGULATOR COVER	2.5 N·m (22 lb. in.)
FUEL METER BODY-THROTTLE BODY	6.0 N·m (53 lb. in.)
THROTTLE BODY INJECTION FUEL INLET NUT	27.0 N·m (20 lb. ft.)
THROTTLE BODY INJECTION FUEL OUTLET NUT	27.0 N·m (20 lb. ft.)
THROTTLE POSITION SENSOR	2.0 N·m (18 lb. in.)
IDLE AIR CONTROL VALVE	1.5 N·m (13 lb. in.)
TUBE MODULE ASSEMBLY	3.0 N-m (28 lb. in.)
INJECTOR RETAINER SCREW	3.0 N-m (28 lb. in.)
COOLANT TEMPERATURE SENSOR	
INTAKE AIR TEMPERATURE SENSOR	
SPARK PLUGS	15.0 N·m (11 lb. ft.)

6. SPECIAL TOOLS

1.7L THROTTLE BODY INJECTION

Special diagnostic service tools that are mentioned in this service manual and described below are available for worldwide distribution from:

Kent-Moore SPX Corporation 29784 Little Mack Roseville, MI 48066-2298 1-800-345-2233 Monday through Friday 8:00 a.m. through 8:00 p.m. EST

Telex: 244040 KMTR UR Fax: 313-578-7375





DIGITAL MULTIMETER
J 39689-78

VOLTMETER—Voltage position V measures magnitude of voltage when connected in parallel to an existing circuit. A digital voltmeter with a 10 megohm input impedance is used because this type of meter will not load down the circuit and result in faulty readings. Some circuits require accurate low resistance. Direct Current Voltage measurement selection V is used for most automotive measurements.

<u>AMMETER</u>—When used as an ammeter, this meter accurately measures extremely low current flow. Refer to meter instructions for more information.

 Selector must be set properly for both function and range. Direct Current measurement selection A is used for most automotive measurements.

<u>OHMMETER</u>—Measurement selection " Ω " measures resistance of circuit directly in ohms. Refer to meter instructions for more information.

- Overload display "OL" in all ranges indicates open circuit.
- . Zero display in all ranges indicates a short circuit.
- An intermittent connection in a circuit may be indicated by a digital reading that will not stabilize on the circuit.

FREOUENCY—Position Hz measures frequency of AC or pulsed DC voltages.

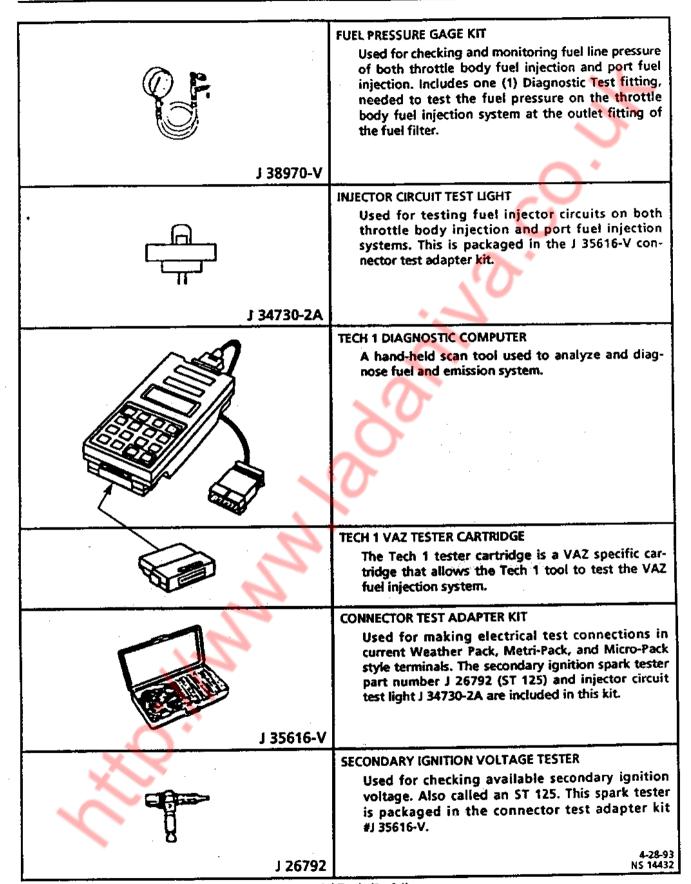
<u>TEMPERATURE</u>—Position °C °F, measures temperature using the included thermocouple probe.

DWELL-DUTY CYCLE—Position 4° % measures dwell or duty cycle of pulse with modulated signals.

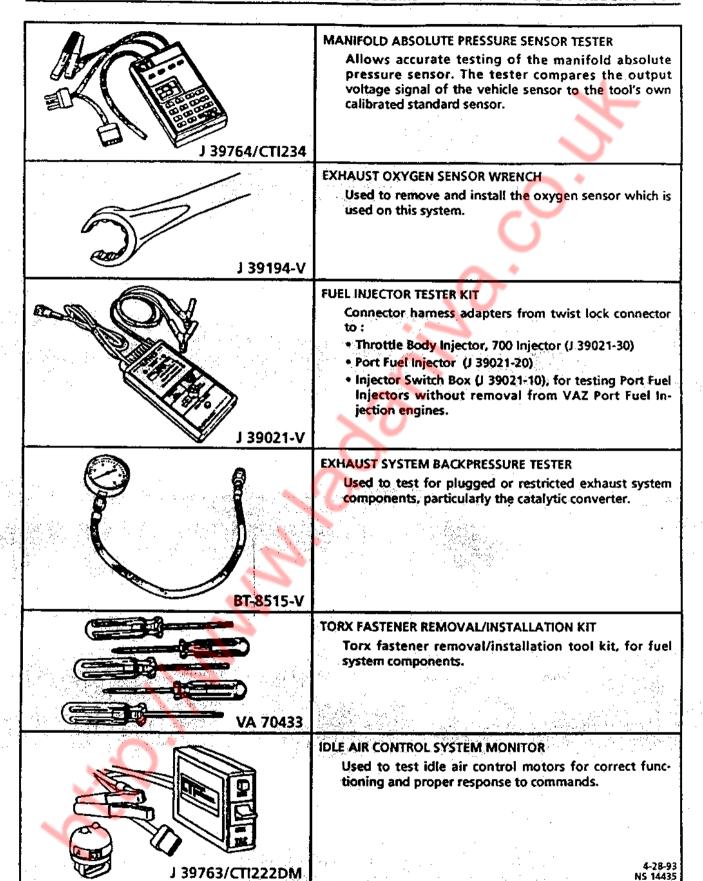
ENGINE SPEED—Position RPM measures engine speed. See meter sample for symbol.

12-21-92 NS 14431

Special Tools (1 of 4)



Special Tools (2 of 4)



Special Tools (3 of 4)

J 39745

J 35555

J 35805

PLASTIC CONTAINER

Plastic container, lockable to contain all tools mentioned on the previous pages.



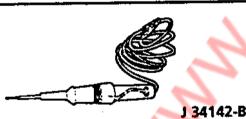
TERMINAL REPAIR KIT

Contains proper tools and components to perform reliable wiring repairs to the engine management system wiring harness.



VACUUM PUMP WITH GAGE

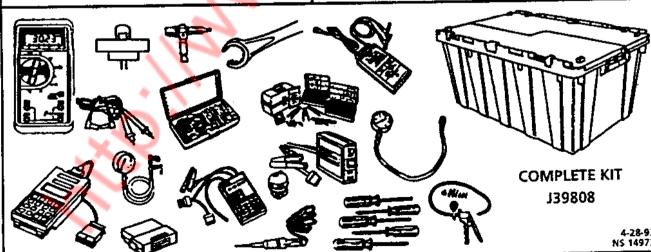
Use the gage to monitor manifold engine vacuum and use the hand pump to check vacuum sensors, solenoids and valves.



UNPOWERED TEST LIGHT

Used in checking wiring for a complete circuit, short to ground, or voltage.

Sax 709 Aeres -



Special Tools (4 of 4)