

DIAGNOSIS AND TESTING (Continued)

4. Key On, Engine Running Self-Test:
- Is a dynamic check of the IVSC with the engine in operation

WARNING: ANYONE WHO DEPARTS FROM THE INSTRUCTION PROVIDED IN THIS PUBLICATION MUST FIRST ESTABLISH THAT HE COMPROMISES NEITHER HIS PERSONAL SAFETY NOR THE VEHICLE INTEGRITY BY HIS CHOICE OF METHODS, TOOLS OR PARTS.

Visual Check and Vehicle Preparation

Correct test results for the Quick Test are dependent on the proper operation of related non-IVSC component systems. It may be necessary to correct faults in these areas before the IVSC will pass the Quick Test.

Before hooking up any equipment to diagnose the IVSC system, make the following checks:

1. Check all engine vacuum hoses for:
 - Leaks or pinched hoses (speed control servo to speed control metering valve and speed control servo to manifold vacuum)
2. Check the IVSC and EEC system wiring harness electrical connections for:
 - Proper connections
 - Loose or detached connectors, wires and terminals
 - Corrosion
 - Proper routing of harness

It may be necessary to disconnect or disassemble the connector assembly to perform some of the inspections. (Note the location of each pin before disassembly.)

3. Check the EEC-IV powertrain control module and IVSC sensors and actuators for physical damage.

4. Perform all safety steps required to start and run operation vehicle tests.
5. Apply the emergency brake. Place the shift lever in NEUTRAL.
6. Turn off all electrical loads such as the radio, lamps, air conditioner, etc. Ensure doors are closed whenever readings are made.
7. Verify engine coolant is at the specified level.
8. Start the engine and let idle until the upper radiator hose is hot and pressurized and the throttle is off fast idle.
9. Turn the ignition switch to the OFF position.
10. Service items as required, and proceed to equipment hookup.

Equipment Hookup

Using the SUPER STAR II Tester 007-004 1A or equivalent:

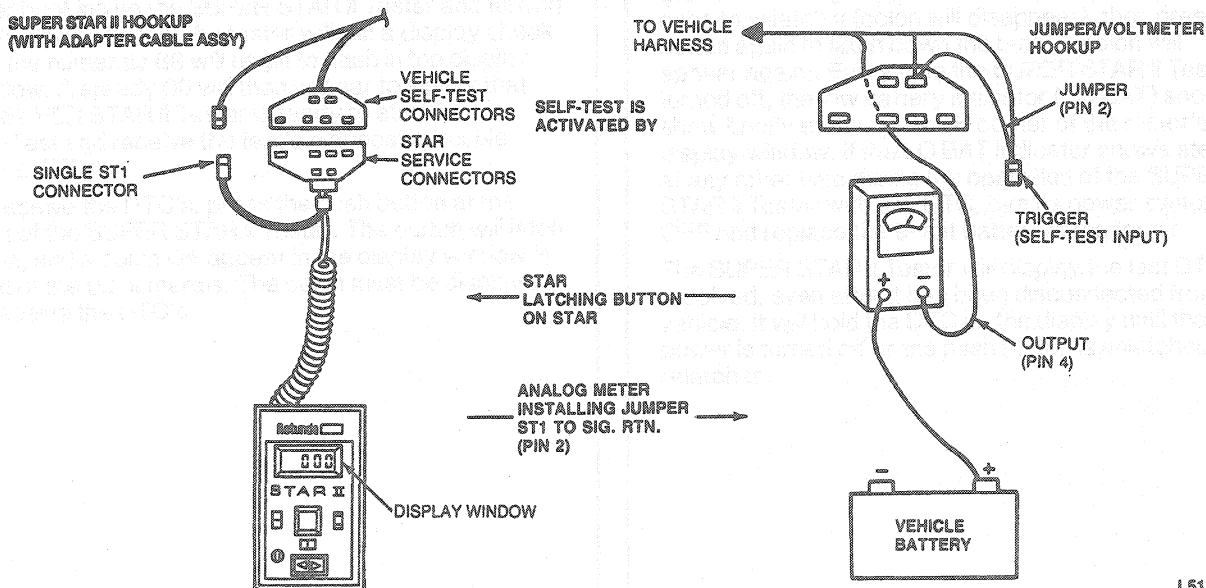
- Turn the ignition switch to the OFF position.
- Connect the adapter cable's two service connectors to the vehicle's appropriate self-test connectors.

After equipment hookup, go to Self Testing.

Using Inductive Dwell-Tach-Volts Ohms Tester 059-00010 or equivalent:

- Turn ignition switch to the OFF position.
- Connect a jumper wire from Self-Test input (STI) to Pin 2, Signal Return on the Self-Test connector (refer to the diagram below).
- Set analog VOM on a DC voltage range to read from 0 to 15 volts DC. Connect VOM from battery (+) to Pin 4 Self-Test Output (STO) in the self-test connector.

After equipment hookup go to Self Testing.



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