## DIAGNOSIS AND TESTING (Continued)
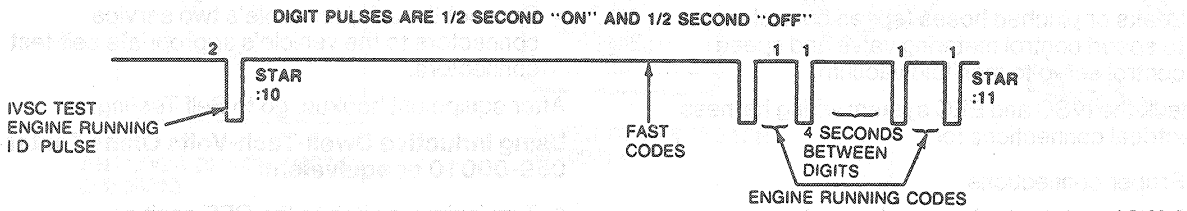
### Quick Test Self-Test

Quick Test Self-Testing is divided into two specialized tests: Key On, Engine Off, and Key On, Engine Running. The Self-Test is not a conclusive test by itself, but is used as a part of the functional Quick Test diagnostic procedure. The PCM stores the Self-Test program in its permanent memory. When activated, it checks the IVSC system by testing its functional capability and verifies that various sensors and actuators are connected and operating properly.

The Key On, Engine Off and Engine Running tests are functional tests which only detect faults present at the time of the Self Test.

### Key On, Engine Off Test

At this time, a test of the IVSC system is conducted with power applied and engine at rest.

The fault must be present at the time of testing for errors to be detected in this test.

### Key On, Engine Running Test

At this time, a test of the IVSC system is conducted with the engine running. The system is checked under actual operating conditions and at normal operating temperatures. The actuators are exercised and checked for corresponding results.

### Service Codes

The EEC-IV system communicates service information through the Self-Test diagnostic trouble codes (DTC). These DTC's are two-digit numbers representing the results of the Self Test.

The DTC's are transmitted on the Self-Test output (STO) (found in the Self-Test connector) in the form of timed pulses, and read by the technician on a voltmeter or on the SUPER STAR II Tester.

### Self-Test Output Code Format



DIGIT PULSES ARE 1/2 SECOND "ON" AND 1/2 SECOND "OFF"

IVSC TEST ENGINE RUNNING I D PULSE    STAR :10    FAST CODES    4 SECONDS BETWEEN DIGITS    ENGINE RUNNING CODES    STAR :11

L5132-A