



## Test Monitoring Center

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ENGINE DYNAMOMETER INTAKE VALVE DEPOSIT INFORMATION LETTER 01-1  
Sequence No. 3

January 30, 2001

*ASTM consensus has not been obtained on this information letter. An appropriate ASTM ballot will be issued in order to achieve such consensus.*

TO: IVD Mailing List

SUBJECT: Instrumentation Calibration Requirements

At the December 4, 2000 Engine Dynamometer Intake Valve Deposit Surveillance Panel meeting, the panel approved a recommendation from the Operations and Hardware Subpanel that the requirement to calibrate instrumentation every four tests be changed. Instrumentation calibration is now required prior to each calibration test and every 90 days. If the test stand has been inactive and the instrumentation has not been calibrated within 90 days, a full stand instrumentation calibration shall be performed prior to starting a test. Revised Sections 11.2 through 11.2.5, and 11.2.7 of Test Method D6201 are attached.

This change is effective December 4, 2000.

Charles Richardson  
Product Engineering  
Ford Motor Company

John L. Zalar  
Administrator  
ASTM Test Monitoring Center

Attachment

c: [ftp://tmc.astm.cmri.cmu.edu/documents/fuel/ivd/procedures\\_and\\_ils/ivdil01-1-3](ftp://tmc.astm.cmri.cmu.edu/documents/fuel/ivd/procedures_and_ils/ivdil01-1-3)

(Revises Test Method D6201-00)

11.2 Instrumentation Calibration - Calibrate the engine load measurement system every test. Calibrate the instrumentation described below prior to each calibration test and every 90 days or as otherwise indicated.

11.2.1 Engine Load Measurement System – Calibrate the engine load measurement system prior to the start of each test. Calibrate over the operating range of the test.

11.2.2 Engine Speed Measurement System – Calibrate the speed measurement system prior to each calibration test and every 90 days. If the test stand has been inactive and the instrumentation has not been calibrated within 90 days, perform a speed measurement system calibration prior to starting a test. Calibrate over the operating range of the test.

11.2.3 Engine Manifold Absolute Pressure Measurement System – Calibrate the manifold absolute pressure measurement system prior to each calibration test and every 90 days. If the test stand has been inactive and the instrumentation has not been calibrated within 90 days, perform an engine manifold absolute pressure measurement system calibration prior to starting a test. Calibrate over the operating range of the test.

11.2.4 Engine Fuel Consumption Measurement System – Calibrate the fuel consumption measurement system prior to each calibration test and every 90 days. If the test stand has been inactive and the instrumentation has not been calibrated within 90 days, perform a fuel consumption measurement system calibration prior to starting a test. Calibrate over the operating range of the test.

11.2.5 Engine “Real Time” Equivalence Ratio Measurement System - Calibrate the equivalence ratio measurement system prior to each calibration test and every 90 days. If the test stand has been inactive and the instrumentation has not been calibrated within 90 days, perform an equivalence ratio measurement system calibration prior to starting a test. Calibrate over the operating range of the test.

11.2.7 Pressure and Temperature Probe Measurement Systems – Calibrate the pressure and temperature probe measurement systems used to acquire the pressure and temperature data detailed in Table 1 prior to each calibration test and every 90 days. If the test stand has been inactive and the instrumentation has not been calibrated within 90 days, perform a pressure and temperature probe measurement system calibration prior to starting a test. Calibrate over the operating range of the test.