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timer resets to zero \((tt=0)\) and a second-chance test is performed. The overall maximum test time for the second-chance test is 425 seconds \((tt=425)\). The test consists of a preconditioning mode followed immediately by an idle mode.

(1) **Preconditioning mode.** The mode timer starts \((mt=0)\) when the engine speed is between 2200 and 2800 rpm. The mode continues for an elapsed time of 180 seconds \((mt=180)\). If engine speed falls below 2200 rpm or exceeds 2800 rpm for more than five seconds in any one excursion, or 15 seconds over all excursions, the mode timer resets to zero and resumes timing.

(2) **Idle mode—** (i) Ford Motor Company and Honda vehicles. The engines of 1981–1987 model year Ford Motor Company vehicles and 1984–1985 model year Honda Preludes must be shut off for not more than ten seconds and restarted. This procedure may also be used for 1988–1989 model year Ford Motor Company vehicles but may not be used for other vehicles. The probe may be removed from the tailpipe or the sample pump turned off if necessary to reduce analyzer fouling during the restart procedure.

(ii) The mode timer starts \((mt=0)\) when the vehicle engine speed is between 350 and 1100 rpm. If engine speed exceeds 1100 rpm or falls below 350 rpm, the mode timer resets to zero and resumes timing. The minimum idle mode length is determined as described in paragraph \((d)(2)(iii)\) of this section. The maximum idle mode length is 90 seconds elapsed time \((mt=90)\).

(iii) The pass/fail analysis begins after an elapsed time of ten seconds \((mt=10)\). A pass or fail determination is made for the vehicle and the idle mode is terminated, in accordance with paragraphs \((d)(2)(iii)(A)\) through \((D)\) of this section.

(A) The vehicle passes the idle mode and the test is immediately terminated if, prior to an elapsed time of 30 seconds \((mt=30)\), measured values are less than or equal to the applicable short test standards as determined by the procedure described in paragraph \((a)(2)\) of this section.

(B) The vehicle passes the idle mode and the test is immediately terminated if, at any point between an elapsed time of 30 seconds \((mt=30)\) and 90 seconds \((mt=90)\), measured values are less than or equal to the applicable short test standards described in paragraph \((a)(2)\) of this section.

(C) The vehicle passes the idle mode and the test is immediately terminated if, at any point between an elapsed time of 30 seconds \((mt=30)\) and 90 seconds \((mt=90)\), measured values are less than or equal to the applicable short test standards described in paragraph \((a)(2)\) of this section.

[D] The vehicle fails the idle mode and the test is terminated if none of the provisions of paragraphs \((d)(2)(ii)\) \((A)\), \((B)\), and \((C)\) of this section is satisfied by an elapsed time of 90 seconds \((mt=90)\).

[58 FR 58403, Nov. 1, 1993, as amended at 61 FR 40947, Aug. 6, 1996]

§ 85.2214 Two speed idle test—EPA 81.

(a)(1) **General calendar year applicability.** The test procedure described in this section may be used to establish Emissions Performance Warranty eligibility through December 31, 1993, except as allowed in paragraph \((a)(2)\) of this section.

(ii) The extended applicability described in paragraphs \((a)(2)\) \((ii)\) through \((iv)\) of this section is restricted to 1995 and earlier model year vehicles or engines.

(iv) In a state for which the Administrator has approved a State Implementation Plan revision providing for the implementation of a basic decentralized program meeting the requirements of part 51, subpart S of this chapter, according to the schedule specified in §51.373 of this chapter, the test procedure described in this section may be used to establish Emissions Performance Warranty eligibility through December 31, 1993.

(iii) In a state for which the Administrator has approved a State Implementation Plan revision providing for the implementation of a basic centralized program meeting the requirements of part 51, subpart S of this chapter, according to the schedule specified in §51.373 of this chapter, the test procedure described in this section may be used to establish Emissions Performance Warranty eligibility through June 30, 1994.
§ 85.2215 Two speed idle test—EPA 91.

(a) General requirements—(1) Exhaust gas sampling algorithm. The analysis of exhaust gas concentrations begins ten seconds after the applicable test mode begins. Exhaust gas concentrations must be analyzed at a rate of once every 0.75 second. The measured value for pass/fail determinations is a simple running average of the measurements taken over five seconds.

(2) Pass/fail determination. A pass or fail determination is made for each applicable test mode based on a comparison of the short test standards contained in §§85.2203 and 85.2204, and the measured value for HC and CO as described in paragraph (a)(1) of this section. A vehicle passes the test mode if any pair of simultaneous values for HC and CO are below or equal to the applicable short test standards. A vehicle