

WAC 173-422-070 Gasoline vehicle exhaust emission testing procedures. All persons certified by, or under contract to, the department to conduct motor vehicle emission inspections shall use the exhaust emission testing procedures described in (II) Two Speed Idle Test of Appendix B-Test Procedures of Subpart S-Inspection/Maintenance Program Requirements of Part 51 of chapter 1, Title 40 of the Code of Federal Regulations adopted November 1, 1992, except that the department may require that the following Acceleration Simulation Mode (ASM) test procedure replace the 2500 rpm mode of the Two Speed Idle Test. Equivalent procedures may be approved by the department.

Variations to the procedures specified may be established by the department for all or certain vehicles. Vehicles, not repaired as required by an emission recall for which owner notification was attempted after January 1, 1995, shall not be inspected until compliance with the recall is established.

Acceleration Simulation Mode (ASM)

1. **Dynamometer Load:** Set dynamometer horsepower load equal to [Vehicle Weight (lbs.) + 300]/300. An Environmental Protection Agency specified loading may also be used.
2. **Vehicle Gear Selection:** Vehicles with automatic transmissions use Drive (not Overdrive), vehicles with manual transmissions use second gear. Shift to the next higher gear if the engine speed exceeds 2500 revolutions per minute.
3. **Vehicle Speed:** Set vehicle speed at 25 miles per hour (mph) $1.5 \pm$ mph.
4. **Pass or Fail Determinations:** Once the vehicle has been operating at 25 mph for 15 seconds, begin measuring exhaust HC, CO, and CO₂, each second. The reading for pass or fail determinations is the running average of five measurements. When a final pass or fail determination is made, this mode will be stopped and the final readings recorded.
5. **Fast Pass:** Once HC and CO readings are equal to or less than the HC and CO standards and are within 20 ppm HC and 0.20% CO of each other.
6. **Fast Fail:** The vehicle will fail after 15 or more seconds of measurements when the HC reading exceeds 1800 ppm, or the CO reading exceeds 9.0 percent.
7. **Full Term Pass/Fail:** The vehicle will pass or fail the ASM mode after 90 seconds of measurements unless emission readings are declining at a rate that indicates that a failing vehicle will pass within the next 30 seconds. Then the failing vehicle will receive up to an additional 30 seconds of measurements before the final pass/fail determination is made.

[Statutory Authority: RCW 70.120.120. WSR 02-12-072 (Order 02-04), § 173-422-070, filed 6/3/02, effective 7/4/02. Statutory Authority: Chapter 70.120 RCW. WSR 96-21-029 (Order 95-11), § 173-422-070, filed 10/9/96, effective 11/9/96; WSR 95-06-068 (Order 93-35), § 173-422-070, filed 2/28/95, effective 3/31/95; WSR 94-05-039 (Order 93-10), § 173-422-070, filed 2/8/94, effective 3/11/94; WSR 93-10-062 (Order 91-46), § 173-422-070, filed 5/3/93, effective 6/3/93; WSR 90-06-062, § 173-422-070, filed 3/6/90, effective 4/6/90. Statutory Authority: RCW 70.120.120, 43.21A.080, 70.94.331 and 70.94.141(1). WSR

83-23-115 (Order DE 83-31), § 173-422-070, filed 11/23/83, effective 1/2/84. Statutory Authority: RCW 70.120.120. WSR 82-02-027 (Order DE 81-32), § 173-422-070, filed 12/31/81; WSR 80-03-070 (Order DE 79-35), § 173-422-070, filed 2/28/80.]

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.