

State of California
AIR RESOURCES BOARD

RESOLUTION 87-83

September 10, 1987

Agenda Item No.: 87-12-2

WHEREAS, Health and Safety Code Sections 39600 and 39601 authorize the Air Resources Board (the "Board") to adopt standards, rules and regulations necessary for the proper execution of the powers and duties granted to and imposed upon the Board by law;

WHEREAS, in Section 43000 of the Health and Safety Code, the Legislature has declared that the emission of air pollutants from motor vehicles is the primary cause of air pollution in the state and, in Section 39002 and 39003 of the Health and Safety Code, has charged the Air Resources Board with the responsibility for systematically attacking the serious air pollution problem caused by motor vehicles;

WHEREAS, Sections 43013 and 43101 of the Health and Safety Code authorize the Board to adopt and implement emissions standards for the control of air pollution caused by motor vehicles which standards the Board has found to be necessary and technologically feasible;

WHEREAS, Section 43104 of the Health and Safety Code authorizes the Board to adopt test procedures for determining whether new motor vehicles and new motor vehicle engines are in compliance with vehicular emission standards adopted by the Board, and provides that the Board shall base its test procedures on federal test procedures or on driving patterns typical in the urban areas of California;

WHEREAS, Section 43100 of the Health and Safety Code authorizes the Board to certify new motor vehicles, and Section 43102 provides that no new motor vehicle shall be certified unless it meets the emission standards and test procedures adopted by the Board;

WHEREAS, Section 43008 of the Health and Safety Code provides that all non-California-certified motor vehicles which are required by federal standards and test procedures to be equipped with motor vehicle pollution control devices, shall be equipped with such devices;

WHEREAS, the Board's existing new motor vehicle and new motor vehicle engine exhaust emission certification requirements incorporate vehicle labeling requirements which parallel those of EPA with exceptions necessary to meet the special needs of this state;

WHEREAS, California Administrative Code, Title 13, Section 1965 and the incorporated "California Motor Vehicle Tune-Up Label Specifications" adopted on March 1, 1978, and last amended on April 23, 1986, set forth the labeling specifications for motor vehicle labels required by ARB's exhaust emission certification requirements;

WHEREAS, in Sections 44000 et seq. of the Health and Safety Code, the Legislature created the state inspection and maintenance program ("Smog Check Program") to ensure that all emission control devices and systems required by state and federal law are installed and functioning correctly and that vehicles comply with applicable motor vehicle emission requirements;

WHEREAS, the Review Committee created by the Legislature to analyze the effect of the Smog Check Program on vehicle emissions and air quality has included in its recommendations to improve the performance of the program, as set out in the committee's "Evaluation of the California Smog Check Program" dated April 1987, a recommendation that bar code-equipped tune-up labels be required on all new cars and trucks as soon as possible;

WHEREAS, the California Environmental Quality Act and Board regulations require that no project having any significant adverse environmental impacts be adopted as originally proposed if feasible alternatives or mitigation measures are available which would substantially reduce or avoid such impacts;

WHEREAS, the Board finds that:

The application of machine-readable label formats for vehicle emission control labeling purposes for 1990 and subsequent model year vehicles is technologically feasible;

The use of machine-readable labels will improve the identification and repair of motor vehicles subject to the California Smog Check Program;

The use of machine-readable labels will eliminate the improper selection of idle emission standards which are less stringent than the applicable standards directly resulting in an emissions reduction, and will also contribute to the elimination of tampering related problems which contribute approximately 140 tons per day of hydrocarbons, 960 tons per day of carbon monoxide, and 30 tons per day of oxides of nitrogen for the combined Smog Check Program areas;

The use of machine-readable labels will result in an overall cost savings to the California consumer due to the reduced labor costs associated with the more efficient inspection and repair by Smog Check mechanics;

The other proposed amendments to the California labeling specifications will streamline and clarify the labeling requirements for manufacturers by more closely aligning the California requirements with federal regulations; and

The proposed amendments will not result in any significant adverse environmental impacts.

NOW, THEREFORE, BE IT RESOLVED that the Board approves the amendments to Title 13, California Administrative Code, Sections 1965, as set forth in Attachment A hereto, and the amendments to the incorporated "California Motor Vehicle Emission Control Label Specifications" as set forth in Attachment B hereto.

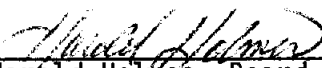
BE IT FURTHER RESOLVED that the Board directs the Executive Officer to adopt the amendments as set forth in Attachment A, and further directs the Executive Officer to adopt the amendments as set forth in Attachment B after SAE issues the final standards J1877 and J1892, provided that the final standards are the same or substantially the same as the version approved herein. If the final standards are not the same or substantially the same as the version approved herein the regulations shall be presented to the Board for further consideration.

BE IT FURTHER RESOLVED that the Board directs the Executive Officer to adopt the amendments as set forth in Attachments A and B with additional modifications as provided for herein, after making them available to the public for a period of at least 15 days, provided that the Executive Officer shall consider such written comments as may be submitted during this period, shall make such modifications as may be appropriate in light of the comments received, and shall present the regulations to the Board for further consideration if he determines that this is warranted.

BE IT FURTHER RESOLVED that the Board hereby determines that the amendments approved herein will not cause the California emission standards, in the aggregate, to be less protective of public health and welfare than applicable federal standards, will not cause the California requirements to be inconsistent with Section 202(a) of the Clean Air Act, and raise no new issues affecting previous waiver determinations of the Administrator of the EPA pursuant to Section 209(b) of the Clean Air Act.

BE IT FURTHER RESOLVED that the Executive Officer shall forward the amended regulations to the EPA with a request for confirmation that the amendments are within the scope of existing waivers pursuant to Section 209(b)(1) of the Clean Air Act.

I hereby certify that the above is a true and correct copy of the Resolution 87-83, as adopted by the Air Resources Board.



Harold Holmes, Board Secretary

State of California
AIR RESOURCES BOARD

Response to Significant Environmental Issues

Item: Public Hearing to Consider Amendments to Regulations Regarding
Certification Labeling Requirements Applicable to New California
Motor Vehicles

Agenda Item No.: 87-12-2

Public Hearing Date: September 10, 1987

Response Date: N/A

Issuing Authority: Air Resources Board

Comment: No comments were received identifying any significant
environmental issues pertaining to this item. The staff report
identified no adverse environmental effects.

Response: N/A

Certified:



Board Secretary

Date:



7/20/88

ATTACHMENT A

Amend Title 13, California Administrative Code, Section 1965, to read as follows:

1965. Tune-Up Labels - 1979 and Subsequent Model Year Motor Vehicles.
In addition to all other requirements, tune-up emission control labels required by California certification procedures shall conform to the "California Motor Vehicle Tune-Up Emission Control Label Specifications," adopted March 1, 1978, as last amended April-26, 1986 _____.

NOTE: Authority cited: Sections 39600 and 39601, Health and Safety Code.
Reference: Sections 39002, 39003, 43000, 43013, 43100, 43101, 43102, 43104, and 43107 and 43200, Health and Safety Code.

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ATTACHMENT B

PROPOSED

State of California
AIR RESOURCES BOARD

~~TUNE-UP~~ CALIFORNIA MOTOR VEHICLE
EMISSION CONTROL LABEL SPECIFICATIONS

Adopted: March 1, 1978
Amended: June 16, 1982
Amended: April 26, 1984
Amended: April 8, 1985
Amended: April 25, 1986
Amended:

NOTE: These procedures are printed in a style to indicate the proposed changes. New text is underlined, and deleted portions are noted by strike-out. Proposed changes as a result of the September 10, 1987, public hearing are indicated by double underline for additions and slashout for deleted portions.

State of California
AIR RESOURCES BOARD

California Motor Vehicle ~~Tune-Up~~ Emission Control
Label Specifications

1. Purpose. The Air Resources Board recognizes that certain emissions-critical or emissions-related parts must be properly adjusted-identified and maintained in order for vehicles and engines to meet the applicable emission standards. The purpose of these specifications is to require motor vehicle or motor vehicle engine manufacturers to affix a label (or labels) on each production vehicle in order to provide the vehicle owner and service mechanic with information necessary for the proper adjustment maintenance of these parts in customer use.
2. Applicability. These specifications shall apply to each new 1979 and subsequent model-year passenger car, light-duty truck, medium-duty vehicle, heavy-duty gasoline-fueled powered engine, and heavy-duty diesel-fueled powered engine, and to each new 1982 and subsequent model year motorcycle sold or offered for sale in California. Any vehicles or classes of vehicles exempt from exhaust emission standards pursuant to Article 2, Chapter 3, Title 13 of the California Administrative Code shall also be exempt from the requirements of these specifications. The responsibility for compliance with these specifications shall rest with the motorcycle, light-duty vehicle, medium-duty vehicle, or heavy-duty engine manufacturer who certified such vehicles or engines.
3. Label Content and Location. (a) A plastic or metal tune-up label, and a paper, plastic or metal machine-readable vehicle emission configuration (VEC) bar code label in accordance with Section 3b, shall be welded, riveted or otherwise permanently attached to an area within the engine compartment (if any) or to the engine in such a way

that it will be readily visible to the average person after installation of the engine in a vehicle. A paper, plastic or metal machine-readable vehicle identification number (VIN) bar code label in accordance with Section 3b shall be affixed in a readily visible location on the vehicle's body/pillar on the operator's side to either the hinge pillar, door latch post, the door edge that meets the door-latch post, next to the drivers seating position, or the instrument panel in a location clearly visible through the lower left corner of the windshield.

In selecting an acceptable location, the manufacturer shall consider the possibility of accidental damage (e.g., possibility of tools or sharp instruments coming in contact with the label) and accessibility to a bar-code reading wand, as applicable. The Each label shall be affixed in such a manner that it cannot be removed without destroying or defacing the label, and shall not be affixed to any part which is likely to be replaced during the vehicle's useful life. For motorcycles, passenger cars, light-duty trucks, and medium-duty vehicles, the label(s) shall not be affixed to any equipment which is easily detached from the vehicle.

(a)(b)The tune-up label shall contain the following information lettered in the English language in block letters and numerals which shall be of a color that contrasts with the background of the label:

- i. The label heading shall read:

"Vehicle Emission Control Information" for passenger cars and motorcycles;

"Important Vehicle Information" for light-duty and medium-duty trucks; and

"Important Engine Information" for heavy-duty engines.

- ii. Full corporate name and trademark of the manufacturer.
- iii. Engine family identification, model designation (for heavy-duty diesels), and engine displacement (in cubic inches, cubic centimeters or liters), and the statement, "OBD Exempt" for all 1989 and subsequent model-year passenger cars, light-duty trucks, and medium-duty vehicles which do not have an Air Resources Board approved on-board diagnostic system.
- iv. Identification of the Exhaust Emission Control System:
 Initials may be used such as and shall consist of the following nomenclatures: EM---engine-modification; AI---air-injection; FI---fuel-injection
OC - Oxidation Catalyst Only;
TWC - Three-Way Catalyst;
TWC + OC - Three-Way Catalyst with Oxidation Catalyst;
AIP - Air Injection Pump;
AIV - Air Injection Valve (Pulse Air Injection);
DI - Diesel Direct Injection (Diesel);
PC - Prechamber (Diesel);
EBG//EXHAUST/GAS/SENSOR//O2/OXYGEN/SENSOR//
OS - Oxygen Sensor; HOS - Heated Oxygen Sensor;
EGR - Exhaust Gas Recirculation;
EM - Engine Modification;
FI - Fuel Injection (Gasoline); and
TR - Thermal Reactor.
- v. For gasoline-powered Engines the tune-up specifications and adjustments as recommended by the manufacturer, including but

~~not-limited-to~~, if applicable: valve lash, ignition-dwell,
ignition timing, idle air fuel mixture setting procedure and
value (e.g., idle CO, idle speed drop), and high idle speed.
~~and-for~~ For diesels-powered engines the specifications and
adjustments recommended by the manufacturer, including if
applicable: initial injection timing, advertised-horsepower,
and fuel rate (in mm³/stroke) at advertised horsepower ~~(all~~
~~as-applicable).~~ For the specifications listed above, which
are not recommended by the manufacturer for adjustment, the
manufacturer shall include in lieu of the "specifications"
the single statement "no other adjustments needed".

These specifications shall indicate the proper transmission
position during tune-up and what accessories, if any (e.g. air
conditioner), should be in operation, and what systems, if any
(e.g. vacuum advance, air pump), should be disconnected during
the tune-up. For gasoline-fueled-powered vehicles, the
instructions for tune-up adjustments shall be sufficiently
clear on the label so as to preclude the need for a mechanic
or vehicle owner to refer to another document in order to
correctly perform the adjustments.

vii.vi. For motorcycles only, any specific fuel or engine
lubricant requirements (e.g., lead content, research octane
number, engine lubricant type).

vii.vii. For heavy-duty engines, the date of engine manufacture
(month and year). A manufacturer may, in lieu of printing the
month of manufacture on the engine label, maintain a record of

the month of engine manufacture. The manufacturer shall submit this record to the Executive Officer upon request.

ix-viii. An unconditional statement of compliance with the appropriate model year California regulations; for example, "This vehicle (or engine, as applicable) conforms to California regulations applicable to _____ model-year new _____ (specify motorcycles, passenger cars, light-duty trucks, medium-duty vehicles, heavy-duty gasoline-powered engines, or heavy-duty diesel-powered engines, as applicable)." For federally certified vehicles certified for sale in California the statement must include the phrase "conforms to federal regulations and is certified for sale in California". For Class III motorcycles for sale in California, the statement must include the phrase "is certified to _____ HC engine family exhaust emission standard in California." For incomplete light-duty truck and incomplete medium-duty vehicles the label shall contain the following statement in lieu of the above:

"This vehicle conforms to California regulations applicable to _____ model-year new vehicles when completed at a maximum curb weight of _____ pounds and a maximum frontal area of _____ square feet."

ix. For 1985 and subsequent model year heavy-duty diesel-powered engines and 1987 and subsequent model year heavy-duty gasoline-powered engines, if the manufacturer is provided an alternate useful life period under the provisions of 40 CFR 86.085-21(f), the prominent statement: "This vehicle has been

certified to meet California standards for a useful life period of ___ years or _____ miles of operation, whichever occurs first. This vehicle's actual life may vary depending on its service application." The manufacturer may alter this statement only to express the assigned alternate useful life in terms other than years or miles (e.g., hours, or miles only).

xix. For 1985 and subsequent model year heavy-duty diesel-powered engines, the prominent statement: "This engine has a primary intended service application as a _____ heavy-duty diesel-powered engine." (The primary intended service applications are light, medium, and heavy, as defined in 40 CFR 86.085-2.)

xi. For 1987 and subsequent model year heavy-duty gasoline-powered engines, one of the following prominent statements as applicable:

- (1) For engines certified to the emission standards under 40 CFR 86.087-10(a)(1)(1) the statement: "This engine is certified for use in all heavy-duty vehicles."
- (2) For engines certified under the provisions of 40 CFR 86.087-10(a)(3)(1), the statement, "This engine is certified for use in all heavy-duty vehicles. It is certified to the emission standards applicable to heavy-duty vehicles with a gross vehicle weight rating above 14,000 lbs."
- (3) For engines certified to the emission standards under 40 CFR 86.087-10(a)(1)(11), the statement: "This engine is

certified for use only in heavy-duty vehicles with a gross vehicle weight rating above 14,000 lbs."

Such statements shall not be used on labels placed on vehicles or engines which, in fact, do not comply with all applicable California regulations, including assembly-line test requirements, if any.

- (b) The machine-readable VEC bar code and the machine-readable VIN bar code shall be designed in accordance with ~~SAE~~ SAE standards J1892 (~~MAY/1987~~) and SAE J1877 (~~MAY/1987~~). These labeling requirements shall be applicable to ~~1989~~1990 and subsequent model-year passenger cars, light-duty trucks, medium-duty vehicles, and heavy-duty gasoline-powered trucks. The Executive Officer may, as necessary, specify new character codes for the VEC label (as part of the "ECS Component Combination" table, Section 4.1.3., SAE J1892) to designate new emission control systems ~~and/or~~ components as they are introduced for use in motor vehicles subject to the label requirements.

For label identification, the VEC and VIN labels shall include ~~THE~~ the heading: "VEC LABEL" ~~FOR/VE/VEC LABEL~~, and "VIN LABEL" respectively, above the bar coded information, ~~FOR/VE/VIN/LABEL~~ If the VEC or VIN label is incorporated as part of the tune-up label and the federal certification label required pursuant to the Federal Motor Vehicle Safety Regulation No. 567, respectively, no heading shall be required. The heading shall be printed in block letters in the English language and printed pursuant to Section 5 of these procedures.

THE/VRC/MACHINE/READABLE/BAR/CODES/MAY/BE/INCORPORATED/ON/THE
 REQUIRED/TUNE-UP/LABEL//HOWEVER//IT/A/SEPARATE/LABEL/IS/USED
 FOR/THE/VRC/MACHINE/READABLE/BAR/CODES//IT/SHALL/BE/LOCATED//IN
 AN/UNDERSHOOT/LOCATION/AS/PREScribed//IN/SECTION/D/

v4-(c) The tune-up label shall include a vacuum hose routing diagram label showing all emissions-related and emissions-critical parts that are actuated by vacuum and the correct routing of vacuum hoses shall be required if one or more vacuum hoses are employed. This diagram shall contain no more than two different vacuum hose routing patterns; however, if there are two routings on a single diagram each routing must be easily understandable. The hose diagram may be separated from the "Emission-Control-Information" tune-up label provided that the vacuum hose diagram is placed in a visible and accessible position as provided in SECTION/D this section. If a separate label is used, it shall of a permanent type; however the destruction limits provision in SECTION/D this section do not apply.

4. The provisions of these specifications shall not prevent a manufacturer from also reciting on the label that such vehicle or engine conforms to any applicable federal emission standards for new motor vehicles or new motor vehicle engines or any other information that such manufacturer deems necessary for, or useful to, the proper operation and satisfactory maintenance of the vehicle or engine.
5. As used in these specifications, readily visible to the average person shall mean that the label shall be readable from a distance of eighteen

inches (46 centimeters) without any obstructions from vehicle or engine parts (including all manufacturer available optional equipment) except for flexible parts (e.g., vacuum hoses, ignition wires) that can be moved out of the way without disconnection. Alternatively, information required by these specifications to be printed on the label shall be no smaller than 8 point type size provided that no vehicle or engine parts, (including all manufacturer available optional equipment), except for flexible parts, obstruct the label. For the VEC and VIN labels, sufficient clearance shall be provided to use a non-contact bar-code reading wand.

6. For the tune-up label and vacuum hose routing diagram label, the labels and any adhesives used shall be designed to withstand for the vehicle's total expected life, typical vehicle environmental conditions in the area where the label is attached. Typical vehicle environmental conditions shall include, but are not limited to, exposure to engine lubricants and coolants (e.g. gasoline, motor oil, brake fluids, water, ethylene glycol), underhood temperatures, steam cleaning, and paints or paint solvents. The manufacturer shall submit, with its certification application, a statement attesting that its labels comply with this requirement.

For the VEC and VIN machine-readable labels, the applicable functional test specifications are contained in ~~SAE~~ SAE standards J1892 and J1877.

7. The manufacturer shall obtain approval from the Executive Officer for all label formats and locations prior to use. Approval of the specific tune-up settings is not required; however, the format for all such settings and tolerances, if any, is subject to review. If the Executive Officer finds that the information on the label is vague or subject to

misinterpretation, or that the location does not comply with these specifications, he or she may require that the label or its location be modified accordingly.

8. Samples of all actual production labels used within an engine family shall be submitted to the Executive Officer within thirty days after the start of production.
9. ~~{a} The Executive Officer may, upon request, waive or modify any part of the requirements of these specifications for the 1979 model year if a vehicle or engine manufacturer does not have adequate lead time to comply with the aforementioned requirements.~~
{b} The Executive Officer may approve alternate label locations or may, upon request, waive or modify the label content requirements provided that the intent of these specifications are is met.
10. If the Executive Officer finds any motor vehicle or motor vehicle engine manufacturer using labels which are different from those approved or which do not substantially comply with the readability or durability requirements set forth in these specifications, the Executive Officer may invoke Section 2109, Article 2, Subchapter 2, Chapter 3, Title 13, California Administrative Code.

State of California

MEMORANDUM

To : Gordon Van Vleck
Secretary
Resources Agency

Date : August 24, 1988

Subject : Filing of Notice of
Decisions of the Air
Resources Board


Cary Allison
Board Secretary

From : Air Resources Board

Pursuant to Title 17, Section 60007 (b), and in compliance with Air Resources Board certification under Section 21080.5 of the Public Resources Code, the Air Resources Board hereby forwards for posting the attached notice of decisions and response to environmental comments raised during the comment period.

ATTACHMENTS

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