

California Environmental Protection Agency
AIR RESOURCES BOARD

**CALIFORNIA 2015 AND SUBSEQUENT MODEL CRITERIA POLLUTANT EXHAUST
EMISSION STANDARDS AND TEST PROCEDURES AND 2017 AND SUBSEQUENT
MODEL GREENHOUSE GAS EXHAUST EMISSION STANDARDS AND TEST
PROCEDURES FOR PASSENGER CARS, LIGHT-DUTY TRUCKS, AND
MEDIUM-DUTY VEHICLES**

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Amended: September 2, 2015
Amended: September 28, 2018

Note: The proposed amendments to this document are shown in underline to indicate additions and ~~strikeout~~ to indicate deletions compared to the test procedures as amended September 2, 2015. Existing intervening text that is not amended in this rulemaking is indicated by “* * * *”.

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CALIFORNIA 2015 AND SUBSEQUENT MODEL CRITERIA POLLUTANT EXHAUST EMISSION STANDARDS AND TEST PROCEDURES AND 2017 AND SUBSEQUENT MODEL GREENHOUSE GAS EXHAUST EMISSION STANDARDS AND TEST PROCEDURES FOR PASSENGER CARS, LIGHT-DUTY TRUCKS, AND MEDIUM-DUTY VEHICLES

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PART I: GENERAL PROVISIONS FOR CERTIFICATION AND IN-USE VERIFICATION OF EMISSIONS

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B. Definitions, Acronyms and Abbreviations

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2. California Definitions.

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“**2017 through 2025 MY National greenhouse gas program**” or “**2017 through 2025 MY National greenhouse gas final rule**” means the national program that applies to new 2017 through 2025 model year passenger cars, light-duty trucks, and medium-duty passenger vehicles as adopted by the U.S. Environmental Protection Agency as codified in 40 CFR Part 86, Subpart S, as incorporated in and amended by these test procedures, except as follows:

For model years 2021 through 2025, the “**2017 through 2025 MY National greenhouse gas program**” means the national program that applies to new 2017 through 2025 model year passenger cars, light-duty trucks, and medium-duty passenger vehicles as adopted by the U.S. Environmental Protection Agency as codified in 40 CFR Part 86, Subpart S, as last amended on October 25, 2016 that incorporates CFR sections 86.1818-12 (October 25, 2016), 86.1865-12 (October 25, 2016), 86.1866-12 (October 25, 2016), 86.1867-12 (October 25, 2016), 86.1868-12 (October 25, 2016), 86.1869-12 (October 25, 2016), 86.1870-12 (October 25, 2016), and 86.1871-12 (October 25, 2016), as incorporated in and amended by these test procedures.

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E. California Exhaust Emission Standards.

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2. Emission Standards Phase-In Requirements for Manufacturers.

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2.5 Greenhouse Gas Requirements for Passenger Cars, Light-Duty Trucks, and Medium-Duty Passenger Vehicles.

2.5.1 *Fleet Average Carbon Dioxide Requirements for Passenger Cars, Light-Duty Trucks, and Medium-Duty Passenger Vehicles.* For the purpose of determining compliance with this section E.2.5, the applicable fleet average CO₂ mass emissions standards for each model year is the sales-weighted average of the calculated CO₂ exhaust mass emission target values for each manufacturer. For each model year, the sales-weighted fleet average CO₂ mass emissions value shall not exceed the sales-weighted average of the calculated CO₂ exhaust mass emission target values for that manufacturer.

2.5.1.1 *Fleet Average Carbon Dioxide Target Values for Passenger Cars.* The fleet average CO₂ exhaust mass emission target values for passenger cars that are produced and delivered for sale in California each model year shall be determined as follows:

2.5.1.1.1 For passenger cars with a footprint of less than or equal to 41 square feet, the gram per mile CO₂ target value shall be selected for the appropriate model year from the following table:

<i>Model Year</i>	<i>CO₂ Target Value (grams/mile)</i>
2017	195.0
2018	185.0
2019	175.0
2020	166.0
2021	157.0
2022	150.0
2023	143.0
2025 2024	137.0
2025 and subsequent	131.0

2.5.1.1.2 For passenger cars with a footprint of greater than 56 square feet, the gram per mile CO₂ target value shall be selected for the appropriate model year from the following table:

<i>Model Year</i>	<i>CO₂ Target Value (grams/mile)</i>
2017	263.0
2018	250.0
2019	238.0
2020	226.0
2021	215.0
2022	205.0
2023	196.0
2025 <u>2024</u>	188.0
2025 and subsequent	179.0

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2.5.1.2 *Fleet Average Carbon Dioxide Target Values for Light-Duty Trucks and Medium-Duty Passenger Vehicles.* The fleet average CO₂ exhaust mass emission target values for light-duty trucks and medium-duty passenger vehicles that are produced and delivered for sale in California each model year shall be determined as follows:

2.5.1.2.1 For light-duty trucks and medium-duty passenger vehicles with a footprint of less than or equal to 41 square feet, the gram per mile CO₂ target value shall be selected from the following table:

<i>Model Year</i>	<i>CO₂ Target Value (grams/mile)</i>
2017	238.0
2018	227.0
2019	220.0
2020	212.0
2021	195.0
2022	186.0
2023	176.0
2025 <u>2024</u>	168.0
2025 and subsequent	159.0

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2.5.1.3 *Calculation of Fleet Average Carbon Dioxide Standards.* For each model year, a manufacturer must comply with its fleet average CO₂ standards for passenger cars and for light-duty trucks plus medium-duty passenger vehicles, as applicable, calculated for that model year as follows. A manufacturer shall calculate separate fleet average CO₂

values for its passenger car fleet and for its combined light-duty truck plus medium-duty passenger vehicle fleet.

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2.5.1.3.4 *Optional Compliance Via the 2017 through 2025 MY National Greenhouse Gas Program.*

The optional compliance approach provided by this section E.2.5.1.3.4 shall not be available for 2021 through 2025 model year passenger cars, light-duty trucks, and medium-duty passenger vehicles if the “2017 through 2025 MY National Greenhouse Gas Program” is altered via a final rule published in the *Federal Register* subsequent to October 25, 2016.

For the 2017 through 2025 model years, a manufacturer may elect to demonstrate compliance with section E.2.5 by demonstrating compliance with the 2017 through 2025 MY National greenhouse gas program as follows:

2.5.1.3.4.1 A manufacturer that selects compliance with this option must notify the Executive Officer of that selection, in writing, prior to the start of the applicable model year or must comply with section E.2.5.5;

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J. Procedural Requirements.

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- 15. §86.1865-12 How to comply with the fleet average CO₂ standards. October 15, 2012. [No change, except that this section shall only apply to vehicles certifying under the 2012 through 2016 MY National greenhouse gas program, and the 2017 through 2025 MY National greenhouse gas program.]
- 16. §86.1866-12 CO₂ fleet average credit programs. October 15, 2012. [No change, except that ~~for the 2012 through 2016 model years~~ this section shall only apply to vehicles certifying under the 2012 through 2016 MY National greenhouse gas program, and the 2017 through 2025 MY National greenhouse gas program.]

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