

State of California
AIR RESOURCES BOARD

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EXECUTIVE ORDER A-6-461
Relating to Certification of New Heavy-Duty Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43835 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1989 model-year General Motors Corporation motor vehicles which have a manufacturer's gross vehicle weight rating (GVWR) of 8501 to 14,000 pounds are certified using the gasoline engine listed below:

| <u>Engine Manufacturer</u> | <u>Engine Family</u> | <u>Displacement Liters (Cubic Inches)</u> | <u>Engine Model Year and Certification Executive Order No.</u> | |
|----------------------------|----------------------|---|--|---------|
| General Motors | KGM05.7BLA4 | 5.7 (350) | 1989 | A-6-458 |

The following are the certification emission standards for this engine family:

| <u>Hydrocarbons gm/bhp-hr</u> | <u>Carbon Monoxide gm/bhp-hr</u> | <u>Nitrogen Oxides gm/bhp-hr</u> |
|-----------------------------------|--|--------------------------------------|
| 1.1 | 14.4 | 6.0 |

The following are the certification emission values for this engine family:

| <u>Engine Family</u> | <u>Hydrocarbons gm/bhp-hr</u> | <u>Carbon Monoxide gm/bhp-hr</u> | <u>Nitrogen Oxides gm/bhp-hr</u> |
|----------------------|-----------------------------------|--|--------------------------------------|
| KGM05.7BLA4 | 0.5 | 9.5 | 2.8 |

BE IT FURTHER RESOLVED: That 1989 model-year vehicle models listed on the attached sheet also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

GENERAL MOTORS CORPORATION

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BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

Engines certified under the Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order.

Executed at El Monte, California this 16th day of July, 1988.



K. D. Drachand, Chief
Mobile Source Division

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corporation

Executive Order No. A-6-461

Heavy Duty Gasoline Powered Vehicles

Engine Family
KGM05.7BLA4

Vehicle Models (Series)

Engine CID Values Appear Below

Forward Control - G Models

| | | |
|-------------------------|-------|-----|
| Hi-Cube Van/Magnavan | - G30 | 350 |
| Cutaway Van/Vandura Spl | - G30 | 350 |
| Van/Vandura | - G30 | 350 |
| Sportvan/Rally Wagon | - G30 | 350 |

Forward Control - P Models

| | | |
|-------------------------|-------|-----|
| Forward Control Chassis | - P20 | 350 |
| Step-Van/Value Van | - P20 | 350 |

| | | |
|-------------------------|-------|-----|
| Forward Control Chassis | - P30 | 350 |
|-------------------------|-------|-----|

| | | |
|--------------------|-------|-----|
| Motor Home Chassis | - P30 | 350 |
|--------------------|-------|-----|

| | | |
|--------------------|-------|-----|
| Step-Van/Value Van | - P30 | 350 |
|--------------------|-------|-----|

Suburban
RV20

350

Pickup
CKRV 20/30

350

ISSUED: 05-23-88

REV. NO.:

272W/

(For CARB Use Only)

(1989)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

HEAVY-DUTY GASOLINE ENGINES

Manufacturer: General Motors Corporation

Executive Order No.: A-6- 461

Engine Family: KGM05.7BLA4

Exhaust Emission Control System: EGR/OC/OS (CFI)

Liter (CID): 5.7 (350)

| ENG MODEL (ENG CODE) | MAXIMUM RATED HP AT RPM | RATED TORQUE AT RPM | IGNITION SYS (ECU) MFR PART NO. | FUEL SYSTEM (TBI) MFR PART NO. | EGR VALVE MFR PART NO. | CATALYST MFR PART NO. |
|-------------------------|-------------------------------|---------------------------|--|---|------------------------------|-----------------------------|
| L05 (1) | 190 @ 4000 | 300 @ 2400 | 16084551, 16136031 | Rochester 17089045 | 17087185 | AC 25103516 |
| L05 (2) | 190 @ 4000 | 300 @ 2400 | 16084601 | Rochester 17089046 | 17087185 | AC 25103516 |

ISSUED: 05-23-88

REV. NO.: 002 (RC #2)

0272W/31W