File



State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-861
Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1999 model-year General Motors Corporation exhaust emission control systems are certified as described below for medium-duty vehicles:

Fuel Type: Gasoline

Engine Family: XGMXA04.3195 Displacement: 4.3 Liters (262 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation
Sequential Multiport Fuel Injection
Dual Three Way Catalytic Converters
Dual Heated Oxygen Sensors
Heated Oxygen Sensor

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards for this engine family in grams per mile are:

| Test Weight (lbs.) | Miles | Non-Methane Hydrocarbons | Carbon Monoxide | Nitrogen Oxides | Carbon Monoxide (20°F) |
|---|---|---|---|---|---|
| 3751-5750 | 50,000 | 0.32 | 4.4 | 0.7 | 12.5 |
| | 120,000 | 0.46 | 6.4 | 0.98 | n/a |

The certification exhaust emission values for this engine family in grams per mile are:

| Test Weight (lbs.) | Miles | Non-Methane Hydrocarbons | Carbon Monoxide | Nitrogen Oxides | Carbon Monoxide (20°F) |
|---|---|---|---|---|---|
| 3751-5750 | 50,000 | 0.14 | 2.2 | 0.4 | 5.0 |
| | 120,000 | 0.18 | 2.9 | 0.54 | n/a |

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the medium-duty vehicle phase-in requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles" (Title 13, California Code of Regulations, Section 1960.1(h)(2)).

BE IT FURTHER RESOLVED: That under the submitted medium-duty vehicle phase-in compliance plan, if the manufacturer incurs "Vehicle Equivalent Debits" for the aforementioned model year due to the manufacturer's failure to produce and deliver for sale in California the equivalent quantity of medium-duty vehicles certified to low-emission vehicle and/or ultra-low-emission vehicle exhaust emission standards required by the above-referenced standards and test procedures, all "Vehicle Equivalent Debits" incurred by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

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" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

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

Executed at El Monte, California this 5th day of May 1998.

John Henderson for
R. B. Summerfield, Chief
Mobile Source Operations Division

# LIGHT DUTY TRUCK MODEL NUMBER DEFINITION

(Includes California Medium Duty Trucks)

E.O. #A-6-861

Example, Pattern A: CC10703+E62
Example, Pattern B: 1UM05

**Digit 1 = Marketing Division**

Pattern A
C = Chevrolet
T = GMC
H = Oldsmobile
J = Isuzu

Pattern B
1 = Chevrolet
2 = Pontiac
3 = Oldsmobile

Note: Digit 1 is only used for Pattern A models on engine family pages or California Supplemental Data Sheets when necessary to discriminate by division model.

**Digit 2 = Chassis Type (all)**

U = Conventional 4x2 Front Wheel Drive
C, S, M = Conventional 4x2 Rear Wheel Drive
G = Forward Control 4x2 Rear Wheel Drive
K, T, L = Conventional 4x4 Four Wheel Drive, All Wheel Drive

**Digit 3 = Series/GVWR**

Pattern A
1 = 11,15,1500/3500-7300
2 = 21,25,2500/6400-8610
3 = 31,35,3500/7100-14500

Pattern B
Letter code designates trim level rather than series/GVWR.

**Digits 4 & 5**

Pattern A = Dimensional Grouping
05 = Utility: Tahoe (2Dr), Yukon (2Dr), Blazer, Jimmy, Bravada
06 = S/T Short Box
07 = C/K Short Box, Tahoe (4Dr), Yukon (4Dr)
08 = S/T Long Box & Cab-Chassis
09 = C/K Long Box, Suburban
10 = M/L Long Body
14 = G Short Wheelbase
17 = G Long Wheelbase

Pattern B = Body Style
06 = Passenger (Venture, Trans Sport, Silhouette)
16 = Passenger (Venture, Trans Sport, Silhouette) Dual Sliding Doors

**Digits 6 & 7 = Body/Cab Codes (Pattern A Only)**

03 = Conventional Cab, Cab-Chassis
05 = Cargo Van
06 = Passenger Van, 4 Door Special Purpose Vehicle
16 = 2 Door Special Purpose Vehicle
43 = Crew Cab
53 = Extended Cab

**Pickup Body Codes (Optional, Used with Pattern A Only)**

+E62 = Stepside, Fenderside
+E63 = Fleetside, Wideside

ISSUED: ML-XP137 REVISED:

(FOR CARB USE ONLY)

E.O. #A-6-861

## 1999 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: XGMXA04.3195 EVAP FAMILY: XGMXE0111911

ALL ENGINE CODES IN ENGINE FAMILY: CA ( X ) 49S ( ) 50S ( ) AB965 ( ) ORVR: YES ( ) NO ( X )

EXH STD: CA TIER-1 ( X ) TLEV ( ) LEV ( ) ULEV ( ) SULEV ( ); U.S. EPA TIER-1 ( )

VEH CLASS(ES): PC ( ) LDT1 ( ) LDT2 ( ) MDV1 ( ) MDV2 ( X ) MDV3 ( ) MDV4 ( ) MDV5 ( )

SINGLE CERT STANDARD FOR MULTI-CLASS ENGINE FAMILY: NA

FUEL TYPE(S): DEDICATED ( X ) GASOLINE ( X ); EXH EMIS TEST FUEL(S): INDOLENE ( ) CBG ( X )

EVAP EMIS TEST PROCEDURE: CALIF ( ) FED ( X )

SERVICE ACCUMULATION: STD AMA ( ) MFR ADP ( X ); NMOG TEST PROCEDURE: NA ( X ) EQUIV ( )

R/L TEST PROCEDURE: PT SOURCE ( X )

ENGINE CONFIGURATION: I4 ( ) V6 ( X ) V8 ( ) DISPLACEMENT: 4.3 LITERS / 262 CU. IN.

VALVES / CYLINDER: 2 ( X ) 4 ( ) RATED HP: 200 @ 4400 RPM

ENGINE LOCATION: FRONT ( X ) DRIVE: FWD ( ) RWD ( X ) 4WD-FT ( ) 4WD-PT ( )

EXHAUST EMISSION CONTROL SYSTEM: EGR, 2TWC, SFI, 2HO2S-HO2S

RLHP / DPA VALUES: SECTION 08.13.02.00

| ENGINE CODE & LETTER DERIVATIVES*1 | LOC (C/F/NW) | VEH MODELS (SEE PAGE 1) | TRANS (M5,A4,ETC.) | EQUIV. TEST WEIGHT | EGR SYSTEM PART NO. | CATALYTIC CONVERTER PART NO. |
|---|---|---|---|---|---|---|
| 61,62 | C | C15703<br>C15753 | M5 | 5000<br>5250 | 25312788 | 25318379AA,<br>25180213 |

*1 Base engine codes are the same as letter derivatives unless otherwise noted. Refer to PCM/VCM part number page for additional engine code letter derivative information.

| CARLINE NAME | CARLINE CODE |
|---|---|
| C1500 SILVERADO 2WD | 03015 |
| C1500 SIERRA 2WD | 04010 |

ISSUED: ML-XP137 REVISED:

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EXH STD: CA TIER-1 ( X ) TLEV ( ) LEV ( ) ULEV ( ) SULEV ( ); U.S. EPA TIER-1 ( )

VEH CLASS(ES): PC ( ) LDT1 ( ) LDT2 ( ) MDV1 ( ) MDV2 ( X ) MDV3 ( ) MDV4 ( ) MDV5 ( )

SINGLE CERT STANDARD FOR MULTI-CLASS ENGINE FAMILY: NA

FUEL TYPE(S): DEDICATED ( X ) GASOLINE ( X ); EXH EMIS TEST FUEL(S): INDOLENE ( ) CBG ( X )

EVAP EMIS TEST PROCEDURE: CALIF ( ) FED ( X )

SERVICE ACCUMULATION: STD AMA ( ) MFR ADP ( X ); NMOG TEST PROCEDURE: NA ( X ) EQUIV ( )

R/L TEST PROCEDURE: PT SOURCE ( X )

ENGINE CONFIGURATION: I4 ( ) V6 ( X ) V8 ( ) DISPLACEMENT: 4.3 LITERS / 262 CU. IN.

VALVES / CYLINDER: 2 ( X ) 4 ( ) RATED HP: 200 @ 4400 RPM

ENGINE LOCATION: FRONT ( X ) DRIVE: FWD ( ) RWD ( ) 4WD-FT ( ) 4WD-PT ( X )

EXHAUST EMISSION CONTROL SYSTEM: EGR, 2TWC, SFI, 2HO2S-HO2S(B)

RLHP / DPA VALUES: SECTION 08.13.02.00

| ENGINE CODE & LETTER DERIVATIVES*1 | LOC (C/F/NW) | VEH MODELS (SEE PAGE 1) | TRANS (M5,A4,ETC.) | EQUIV. TEST WEIGHT | EGR SYSTEM PART NO. | CATALYTIC CONVERTER PART NO. |
|---|---|---|---|---|---|---|
| 61,62 | C | K15703 | M5 | 5250 | 25312788 | 25318379AA, 25180213 |

*1 Base engine codes are the same as letter derivatives unless otherwise noted. Refer to PCM/VCM part number page for additional engine code letter derivative information.

| CARLINE NAME | CARLINE CODE |
|---|---|
| K1500 SILVERADO 4WD | 03030 |
| K1500 SIERRA 4WD | 04020 |

ISSUED: ML-XP137 REVISED:

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## 1999 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: XGMXA04.3195 EVAP FAMILY: XGMXE0133916

ALL ENGINE CODES IN ENGINE FAMILY: CA ( X ) 49S ( ) 50S ( ) AB965 ( ) ORVR: YES ( ) NO ( X )

EXH STD: CA TIER-1 ( X ) TLEV ( ) LEV ( ) ULEV ( ) SULEV ( ); U.S. EPA TIER-1 ( )

VEH CLASS(ES): PC ( ) LDT1 ( ) LDT2 ( ) MDV1 ( ) MDV2 ( X ) MDV3 ( ) MDV4 ( ) MDV5 ( )

SINGLE CERT STANDARD FOR MULTI-CLASS ENGINE FAMILY: NA

FUEL TYPE(S): DEDICATED ( X ) GASOLINE ( X ); EXH EMIS TEST FUEL(S): INDOLENE ( ) CBG ( X )

EVAP EMIS TEST PROCEDURE: CALIF ( ) FED ( X )

SERVICE ACCUMULATION: STD AMA ( ) MFR ADP ( X ); NMOG TEST PROCEDURE: NA ( X ) EQUIV ( )

R/L TEST PROCEDURE: PT SOURCE ( X )

ENGINE CONFIGURATION: I4 ( ) V6 ( X ) V8 ( ) DISPLACEMENT: 4.3 LITERS / 262 CU. IN.

VALVES / CYLINDER: 2 ( X ) 4 ( ) RATED HP: 200 @ 4400 RPM

ENGINE LOCATION: FRONT ( X ) DRIVE: FWD ( ) RWD ( X ) 4WD-FT ( ) 4WD-PT ( )

EXHAUST EMISSION CONTROL SYSTEM: EGR, 2TWC, SFI, 2HO2S-HO2S

RLHP / DPA VALUES: SECTION 08.13.02.00

| ENGINE CODE & LETTER DERIVATIVES*1 | LOC (C/F/NW) | VEH MODELS (SEE PAGE 1) | TRANS (M5,A4,ETC.) | EQUIV. TEST WEIGHT | EGR SYSTEM PART NO. | CATALYTIC CONVERTER PART NO. |
|---|---|---|---|---|---|---|
| 61,62 | C | C15903 | M5 | 5250 | 25312788 | 25318379AA, 25180213 |

*1 Base engine codes are the same as letter derivatives unless otherwise noted. Refer to PCM/VCM part number page for additional engine code letter derivative information.

| CARLINE NAME | CARLINE CODE |
|---|---|
| C1500 SILVERADO 2WD | 03015 |
| C1500 SIERRA 2WD | 04010 |

ISSUED: ML-XP137 REVISED:

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ALL ENGINE CODES IN ENGINE FAMILY: CA ( X ) 49S ( ) 50S ( ) AB965 ( ) ORVR: YES ( ) NO ( X )

EXH STD: CA TIER-1 ( X ) TLEV ( ) LEV ( ) ULEV ( ) SULEV ( ); U.S. EPA TIER-1 ( )

VEH CLASS(ES): PC ( ) LDT1 ( ) LDT2 ( ) MDV1 ( ) MDV2 ( X ) MDV3 ( ) MDV4 ( ) MDV5 ( )

SINGLE CERT STANDARD FOR MULTI-CLASS ENGINE FAMILY: NA

FUEL TYPE(S): DEDICATED ( X ) GASOLINE ( X ); EXH EMIS TEST FUEL(S): INDOLENE ( ) CBG ( X )

EVAP EMIS TEST PROCEDURE: CALIF ( ) FED ( X )

SERVICE ACCUMULATION: STD AMA ( ) MFR ADP ( X ); NMOG TEST PROCEDURE: NA ( X ) EQUIV ( )

R/L TEST PROCEDURE: PT SOURCE ( X )

ENGINE CONFIGURATION: I4 ( ) V6 ( X ) V8 ( ) DISPLACEMENT: 4.3 LITERS / 262 CU. IN.

VALVES / CYLINDER: 2 ( X ) 4 ( ) RATED HP: 200 @ 4400 RPM

ENGINE LOCATION: FRONT ( X ) DRIVE: FWD ( ) RWD ( ) 4WD-FT ( ) 4WD-PT ( X )

EXHAUST EMISSION CONTROL SYSTEM: EGR, 2TWC, SFI, 2HO2S-HO2S

RLHP / DPA VALUES: SECTION 08.13.02.00

| ENGINE CODE LETTER DERIVATIVES*1 | LOC (C/F/NW) | VEH MODELS (SEE PAGE 1) | TRANS (M5,A4,ETC.) | EQUIV. TEST WEIGHT | EGR SYSTEM PART NO. | CATALYTIC CONVERTER PART NO. |
|---|---|---|---|---|---|---|
| 61 | C | K15903 | M5 | 5250 | 25312788 | 25318379AA, 25180213 |
| 62 | | K15903 | | 5500 | | |

*1 Base engine codes are the same as letter derivatives unless otherwise noted. Refer to PCM/VCM part number page for additional engine code letter derivative information.

| CARLINE NAME | CARLINE CODE |
|---|---|
| K1500 SILVERADO 4WD | 03030 |
| K1500 SIERRA 4WD | 04020 |

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## 1999 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

## PCM AND CALIBRATION PART NUMBERS

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: XGMXA04.3195 EVAP FAMILY: XGMXE0111911
XGMXE0133916

| ENGINE CODE | PCM/VCM PART NUMBER | ENGINE CALIB | OPER CALIB | TRANS CALIB |
|---|---|---|---|---|
| 61,62 | 16249315 (9315) | 09350930 | 16265965KB | 16232746 |
| 61A,62A | 16251685 (BZZK) | | 09360505PA | |
| 61B,62B | 09360605 (CMUD) | 09364813 | 09365085PB | |

ISSUED: ML-XP137 REVISED: ML-XR043, ML-XR049, ML-XR067