

File

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-811  
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 1998 model-year General Motors Corporation exhaust emission control systems are certified as described below for medium-duty vehicles:

Fuel Type: Gasoline

Engine Family: WGMXA05.7182 Displacement: 5.7 Liters (350 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 (two)

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:

<u>Test Weight</u> <u>(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Hydrocarbons</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Carbon</u> <u>Monoxide (20°F)</u>
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:

<u>Test Weight</u> <u>(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Hydrocarbons</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Carbon</u> <u>Monoxide (20°F)</u>
3751-5750	50,000	0.21	2.5	0.5	6.2
	120,000	0.27	4.0	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 Debts" 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 Debts" 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).

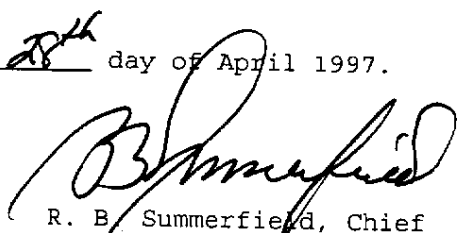
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned 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 28th day of April 1997.

  
R. B. Summerfield, Chief  
Mobile Source Operations Division

## LIGHT DUTY TRUCK MODEL NUMBER DEFINITION

(Includes California Medium Duty Trucks)

E.O. #A-6-811

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 = 21,25,2500/6400-8600  
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-WP066

REVISED:

17-WGMXA05.7182-1  
(1998)

1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

FR: GENERAL MOTORS CORP. ENGINE FAMILY: WGMXA05.7182 EVAP FAMILY: WGMXE0111907  
 ALL ENGINE CODES IN ENGINE FAMILY: CA (X) 49S ( ) 50S ( ) AB965 ( )  
 EXH STD: CA TIER-1 (X) TLEV ( ) LEV ( ) ULEV ( ) ZEV ( ); U.S. EPA TIER-1 ( )  
 EVAP STD: 50K ( ) USEFUL LIFE WITH R/L (X); IN-USE EXH STD: FULL (X) ALTERNATIVE ( )  
 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); EMISSION TEST FUEL(S): INDOLINE ( ) PHASE 2 (X)  
 SERVICE ACCUMULATION: STD AMA ( ) MFR ADP (X); NMOG TEST PROCEDURE: NA (X) EQUIV ( )  
 R/L TEST PROCEDURE: NA ( ) PT SOURCE (X); HYBRID TYPE: NA APU CYCLE: NA  
 ENGINE CONFIGURATION: I4 ( ) V6 ( ) V8 (X) DISPLACEMENT: 5.7 LITERS / 350 CU. IN.  
 VALVES / CYLINDER: 2 (X) 4 ( ) RATED HP: \*2 @ \*2 RPM  
 ENGINE LOCATION: FRONT (X) DRIVE: FWD ( ) RWD (X) 4WD-FT ( ) 4WD-PT ( )  
 EXHAUST EMISSION CONTROL SYSTEM: EGR, 2HO2S, 2TWC, SFI  
 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.
51	C	C10703 C10753	A4	5000 5500	17096309, 25312788	25153032
52		C10703 C10753		5250 5500		
57		C10703 C10753	M5	5000 5500		
58		C10703 C10753		5250 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.

\*2 255 HP @ 4600 RPM - A4 Transmission  
 250 HP @ 4400 RPM - M5 Transmission

CARLINE NAME	CARLINE CODE
C1500 PU 2WD	03015
C1500 SIERRA 2WD	04010

ISSUED: ML-WP066

REVISED:

1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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 ALL ENGINE CODES IN ENGINE FAMILY: CA (X) 49S ( ) 50S ( ) AB965 ( )  
 EXH STD: CA TIER-1 (X) TLEV ( ) LEV ( ) ULEV ( ) ZEV ( ); U.S. EPA TIER-1 ( )  
 EVAP STD: 50K ( ) USEFUL LIFE WITH R/L (X); IN-USE EXH STD: FULL (X) ALTERNATIVE ( )  
 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); EMISSION TEST FUEL(S): INDOLINE ( ) PHASE 2 (X)  
 SERVICE ACCUMULATION: STD AMA ( ) MFR ADP (X); NMOG TEST PROCEDURE: NA (X) EQUIV ( )  
 R/L TEST PROCEDURE: NA ( ) PT SOURCE (X); HYBRID TYPE: NA APU CYCLE: NA  
 ENGINE CONFIGURATION: I4 ( ) V6 ( ) V8 (X) DISPLACEMENT: 5.7 LITERS / 350 CU. IN.  
 VALVES / CYLINDER: 2 (X) 4 ( ) RATED HP: \*4\_@ \*4 RPM  
 ENGINE LOCATION: FRONT (X) DRIVE: FWD ( ) RWD ( ) 4WD-FT ( ) 4WD-PT (X)  
 EXHAUST EMISSION CONTROL SYSTEM: EGR, 2HO2S, 2TWC, SFI  
 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.
51	C	K10703 K10753	A4	5250 5500*2*3	17096309, 25312788	25153032
52		K10703 K10753		5500*2 6000*3		
57		K10703 K10753	M5	5250 5500*2*3		
58		K10703 K10753		5250 5500*2 6000*3		

\*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.

\*2 6200 GVWR

\*3 6600 GVWR

\*4 255 HP @ 4600 RPM - A4 Transmission  
 250 HP @ 4400 RPM - M5 Transmission

CARLINE NAME  
 K1500 PU 4WD  
 1500 SIERRA 4WD

CARLINE CODE  
 03030  
 04020

SUED: ML-WP066

REVISED:

1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: WGMXA05.7182 EVAP FAMILY: WGMXE0111908  
 ALL ENGINE CODES IN ENGINE FAMILY: CA (X) 49S ( ) 50S ( ) AB965 ( )  
 EXH STD: CA TIER-1 (X) TLEV ( ) LEV ( ) ULEV ( ) ZEV ( ); U.S. EPA TIER-1 ( )  
 EVAP STD: 50K ( ) USEFUL LIFE WITH R/L (X); IN-USE EXH STD: FULL (X) ALTERNATIVE ( )  
 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); EMISSION TEST FUEL(S): INDOLENE ( ) PHASE 2 (X)  
 SERVICE ACCUMULATION: STD AMA ( ) MFR ADP (X); NMOG TEST PROCEDURE: NA (X) EQUIV ( )  
 R/L TEST PROCEDURE: NA ( ) PT SOURCE (X); HYBRID TYPE: NA APU CYCLE: NA  
 ENGINE CONFIGURATION: I4 ( ) V6 ( ) V8 (X) DISPLACEMENT: 5.7 LITERS / 350 CU. IN.  
 VALVES / CYLINDER: 2 (X) 4 ( ) RATED HP: \*2 @ \*2 RPM  
 ENGINE LOCATION: FRONT (X) DRIVE: FWD ( ) RWD (X) 4WD-FT ( ) 4WD-PT ( )  
 EXHAUST EMISSION CONTROL SYSTEM: EGR, 2HO2S, 2TWC, SFI  
 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.
51, 52	C	C10903 C10953	A4	5250 5500	17096309, 25312788	25153032
57, 58		C10903 C10953	M5	5250 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.

\*2 255 HP @ 4600 RPM - A4 Transmission  
250 HP @ 4400 RPM - M5 Transmission

CARLINE NAME	CARLINE CODE
C1500 PU 2WD	03015
C1500 SIERRA 2WD	04010

1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: WGMXA05.7182 EVAP FAMILY: WGMXE0111908  
 ALL ENGINE CODES IN ENGINE FAMILY: CA (X) 49S ( ) 50S ( ) AB965 ( )  
 EXH STD: CA TIER-1 (X) TLEV ( ) LEV ( ) ULEV ( ) ZEV ( ); U.S. EPA TIER-1 ( )  
 EVAP STD: 50K ( ) USEFUL LIFE WITH R/L (X); IN-USE EXH STD: FULL (X) ALTERNATIVE ( )  
 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); EMISSION TEST FUEL(S): INDOLINE ( ) PHASE 2 (X)  
 SERVICE ACCUMULATION: STD AMA ( ) MFR ADP (X); NMOG TEST PROCEDURE: NA (X) EQUIV ( )  
 R/L TEST PROCEDURE: NA ( ) PT SOURCE (X); HYBRID TYPE: NA APU CYCLE: NA  
 ENGINE CONFIGURATION: I4 ( ) V6 ( ) V8 (X) DISPLACEMENT: 5.7 LITERS / 350 CU. IN.  
 VALVES / CYLINDER: 2 (X) 4 ( ) RATED HP: \*2 @ \*2 RPM  
 ENGINE LOCATION: FRONT (X) DRIVE: FWD ( ) RWD ( ) 4WD-FT ( ) 4WD-PT (X)  
 EXHAUST EMISSION CONTROL SYSTEM: EGR, 2HO2S, 2TWC, SFI  
 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.
51, 52	C	K10903 K10953	A4	5500	17096309, 25312788	25153032
57		K10903 K10953	M5	5250 5500		
58		K10903 K10953				

\*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.

\*2 255 HP @ 4600 RPM - A4 Transmission  
 250 HP @ 4400 RPM - M5 Transmission

CARLINE NAME	CARLINE CODE
K1500 PU 4WD	03030
K1500 SIERRA 4WD	04020

(FOR CARB USE ONLY)

E.O. #A-6-811

1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PCM AND CALIBRATION PART NUMBERS

MFR: GENERAL MOTORS CORP.

ENGINE FAMILY: WGMXA05.7182

EVAP FAMILY: WGMXE0111907  
WGMXE0111908

<u>ENGINE CODE</u>	<u>PCM/VCM PART NUMBER</u>	<u>ENGINE CALIB</u>	<u>OPER CALIB</u>	<u>TRANS CALIB</u>
51, 52	16214835/BNSA	16216025	16215972PB	16216105 (C: 3.08, K: 3.42), 16216106 (C: 3.42, K: 3.73), 16216080 (C: 3.73)
51A,52A	16249385/BZBY	16216025	16258745PC	
51B,52B	16258835/CCSF, 16266655/CFFR	16267631	16263425PD	
51C,52C		16249509		
51D,52D	09355655/CLNR	09364759	09365095PE	
57, 58	16214835/BNSA	16216021	16215972PB	16216140
57A,58A	16249385/BZBY	16216021	16258745PC	
57B,58B	16258835/CCSF, 16266655/CFFR	16267628	16263425PD	
57C,58C		16249506		
57D,58D	09355655/CLNR	09364756	09365095PE	

ISSUED: ML-WP066

REVISED: ML-WR009, ML-WR061, ML-WR093, ML-WR102

17-WGMXA05.7182-6  
(1998)