State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-807 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: WGMXA04.3190 Displacement: 4.3 Liters (262 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation Sequential Multiport Fuel Injection Three Way Catalytic Converter 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.)	<u>Miles</u>	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen Oxides	Carbon <u>Monoxide (20⁰F)</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:

Test Weight (lbs.)	Miles	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen Oxides	Carbon <u>Monoxide (20⁰F)</u>
3751-5750	50,000	0.26	2.8	0.4	5.8
	120,000	0.34	3.8	0.63	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

Mobile Source Operations Division

LIGHT DUTY TRUCK MODEL NUMBER DEFINITION

(Includes California Medium Duty Trucks)

E.O. #A-6-807

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

Digit 1 = Marketing Division

Pattern A
C = Chevrolet
T = GMC
H = Oldsmobile

Pattern B
1 = Chevrolet
2 = Pontiac
3 = Oldsmobile

J = isuzu

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-WP112

REVISED:

17-WGMXA04.3190-1 (1998)

FR: GENERAL M	IOTORS CORF	. ENGINE FAMIL	LY: WGMXA04.319	0 EVAP	FAMILY: WGM	XE0111907
ALL ENGINE CODE	ES IN ENGINE	FAMILY: CA(X)	49S() 50S()	AB965 ()	ORVR: YES () NO(X)
EXH STD: CA TIE	R-1(X) TL	EV() LEV()	ULEV () SULE	√(); U.S	S. EPA TIER-1 ()
VEH CLASS(ES):	PC() LD	T1() LDT2()	MDV1() MDV2	(X) MDV3	() MDV4 ()	MDV5 ()
SINGLE CERT STA	NDARD FOR I	MULTI-CLASS ENGI	NE FAMILY: NA			
FUEL TYPE(S): D	EDICATED (X) GASOLINE(X);	EXH EMIS TES	TFUEL(S): IN	NDOLENE()	CBG(X)
EVAP EMIS TEST	PROCEDURE:	CALIF () FE	D(X)			
SERVICE ACCUM	JLATION: STO	DAMA() MFRAD	P(X); NMOG	TEST PROCE	DURE: NA (X) EQUIV()
R/L TEST PROCE	OURE: PT SC	DURCE (X)				
ENGINE CONFIGU	RATION: 14 () V6(X) V8() DISPI	ACEMENT: 4	1.3 LITERS / 262	CU. IN.
	VAL	VES / CYLINDER: 2	2(X) 4()	RATE	ED HP: 200 @	4400 RPM
ENGINE LOCATIO	N: FRONT(X)	DRIVE: FWD()	RWD(X)	4WD-FT()	4WD-PT()
EXHAUST EMISSION	ON CONTROL	SYSTEM: EGR, TW	/C, 2HO2S-HO2S, \$	SFI		
RLHP / DPA VALUI	ES: SECTION	08.13.02.00				
				EOUN/	ECD.	CATALYTIC
ENGINE CODE & LETTER	LOC	VEH MODELS	TRANS	TEST	EGR SYSTEM	CONVERTER
ERIVATIVES*1		(SEE PAGE 1)	(M5,A4,ETC.)	<u>WEIGHT</u>	PART NO.	PART NO.
51,52	С	C10703	A4	5000	17096309, 25312788	25160245
53,54		C10753		5250		
61,62		C10703	M5	5000		
		C10753		5250		

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

CARLINE CODE CARLINE NAME 03015 C1500 PICKUP 2WD C1500 SIERRA 2WD

SUED: ML-WP112 REVISED:

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FR: GENERAL M	OTORS CORF	engine fami	LY: WGMXA04.31	90 EVAP	FAMILY: WGM	XE0111907
ALL ENGINE CODE	ES IN ENGINE	FAMILY: CA(X)	49S() 50S()	AB965 ()	ORVR: YES () NO(X)
EXH STD: CA TIE	ER-1(X) TL	EV() LEV()	ULEV() SULE	V(); U.S	S. EPA TIER-1 ()
VEH CLASS(ES):	PC() LD	T1() LDT2()	MDV1 () MDV2	(X) MDV3	() MDV4 ()	MDV5 ()
SINGLE CERT STA	ANDARD FOR I	MULTI-CLASS ENGI	NE FAMILY: NA			
FUEL TYPE(S): D	EDICATED (X) GASOLINE(X);	EXH EMIS TES	T FUEL(S): IN	NDOLENE()	CBG(X)
EVAP EMIS TEST	PROCEDURE:	CALIF () FE	D(X)			
SERVICE ACCUM	ULATION: ST	DAMA() MFRAD	P(X); NMOG	TEST PROCE	DURE: NA(X) EQUIV()
R/L TEST PROCE	OURE: PT SC	OURCE (X)				
ENGINE CONFIGL	JRATION: 14 () V6(X) V8() DISP	LACEMENT: 4	4.3 LITERS / 262	2 CU. IN.
	VAL	VES / CYLINDER:	2(X) 4()	RATE	ED HP: 200 @	4400 RPM
ENGINE LOCATIO	N: FRONT(X	.)	DRIVE: FWD()	RWD()	4WD-FT()	4WD-PT (X)
EXHAUST EMISSI	ON CONTROL	SYSTEM: EGR, TV	VC, 2H02S-H02S,	SFI		
RLHP / DPA VALU	ES: SECTION	08.13.02.00				
ENGINE CODE				EQUIV.	EGR	CATALYTIC
& LETTER DERIVATIVES*1	LOC (C/F/NW)	VEH MODELS (SEE PAGE 1)	TRANS (M5,A4,ETC.)	TEST W <u>EIGHT</u>	SYSTEM <u>PART NO.</u>	CONVERTER PART NO.
		 -				
51,52	С	K10703	A4	5250	17096309, 25312788	25160245
61,62		K10703	M5			
*1 Base engine co	des are the sar	ne as letter derivative	es unless otherwise	noted. Refer t	o PCM/VCM pai	rt number page
		r derivative information				
	RLINE NAME	-	CARLINEC	ODE		
K1500 PICKUP 4V	VD		03030			

04020

SUED: ML-WP112

K1500 SIERRA 4WD

REVISED:

FR: GENERAL MOTORS CORP. ENGINE FAMILY: WGMXA04.3190 EVAP FAMILY: WGMXE0111908 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 () PC() LDT1() LDT2() MDV1() MDV2(X) MDV3() MDV4() MDV5() VEH CLASS(ES): 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 4WD-FT() 4WD-PT() DRIVE: FWD() RWD(X) ENGINE LOCATION: FRONT (X) EXHAUST EMISSION CONTROL SYSTEM: EGR, TWC, 2HO2S-HO2S, SFI RLHP / DPA VALUES: SECTION 08.13.02.00

ENGINE CODE & LETTER ERIVATIVES*1	LOC (C/F/NW)	VEH MODELS (SEE PAGE 1)	TRANS (<u>M5,A4,ETC.)</u>	EQUIV. TEST <u>WEIGHT</u>	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
51,52	С	C10903	A4	5000	17096309, 25312788	25160245
61		C10903	M5			
62		C10903		5250		
55,56		G11405	A4	5500		25152823

^{*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 SIERRA 2WD	04010
C1500 PICKUP 2WD	03015
G1500 CHEVROLET VAN 2WD	03050
G1500 SAVANA 2WD CARGO	04040

SSUED: ML-WP112

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REVISED:

ENGINE FAM	ILY: WGMXA04.319	0 EVAF	FAMILY: WGM	1XE0111908
MILY: CA(X)	49S() 50S()	AB965()	ORVR: YES () NO(X)
) LEV()	ULEV() SULE	/(); U.	S. EPA TIER-1 (()
) LDT2()	MDV1() MDV2	(X) MDV3	() MDV4 ()) MDV5()
TI-CLASS ENGI	INE FAMILY: NA			
SASOLINE (X)	EXH EMIS TEST	FUEL(S): 1	NDOLENE ()	CBG(X)
ALIF () FE	ED(X)			
MA() MFRA	DP(X); NMOGT	EST PROCE	DURE: NA(X) EQUIV()
CE(X)				
V6 (X) V8 () DISPL	ACEMENT:	4.3 LITERS / 26	2 CU. IN.
S / CYLINDER:	2(X) 4()	RAT	ED HP: 200 @	4400 RPM
	DRIVE: FWD()	RWD()	4WD-FT()	4WD-PT (<u>X</u>)
STEM: EGR, TV	VC, 2H02S-H02S, S	FI		
13.02.00				
		50000	COD	CATALYTIC
/EH MODELS	TRANS	TEST	SYSTEM	CONVERTER
SEE PAGE 1)	(M5,A4,ETC.)	<u>WEIGHT</u>	PART NO.	PART NO.
K10903	A4	5250	17096309, 25312788	25160245
K10903	M5			
	MILY: CA(X) LEV() LDT2() LDT2()	MILY: CA(X) 49S() 50S() () LEV() ULEV() SULEV () LDT2() MDV1() MDV2() (TI-CLASS ENGINE FAMILY: NA BASOLINE(X); EXH EMIS TEST ALIF() FED(X) MA() MFR ADP(X); NMOG T CE(X) V6(X) V8() DISPL BY CYLINDER: 2(X) 4() DRIVE: FWD() STEM: EGR, TWC, 2HO2S-HO2S, S 13.02.00 VEH MODELS TRANS SEE PAGE 1) (M5,A4,ETC.) K10903 A4	MILY: CA(X) 49S() 50S() AB965() () LEV() ULEV() SULEV(); U. () LDT2() MDV1() MDV2(X) MDV3 (TI-CLASS ENGINE FAMILY: NA (SASOLINE(X); EXH EMIS TEST FUEL(S): II (ALIF() FED(X) (MA() MFR ADP(X); NMOG TEST PROCE (CE(X) V6(X) V8() DISPLACEMENT: 4 (S/CYLINDER: 2(X) 4() RATI (DRIVE: FWD() RWD() (STEM: EGR, TWC, 2HO2S-HO2S, SFI (13.02.00 (VEH MODELS TRANS TEST (M5,A4,ETC.) WEIGHT (K10903 A4 5250	SASOLINE (X); EXH EMIS TEST FUEL(S): INDOLENE () ALIF () FED (X) MA () MFR ADP (X); NMOG TEST PROCEDURE: NA (X CE (X) V6 (X) V8 () DISPLACEMENT: 4.3 LITERS / 26: 6 / CYLINDER: 2 (X) 4 () RATED HP: 200 @ DRIVE: FWD () RWD () 4WD-FT () 6 TEM: EGR, TWC, 2HO2S-HO2S, SFI 13.02.00 VEH MODELS TRANS TEST SYSTEM SEE PAGE 1) (M5,A4,ETC.) WEIGHT PART NO. K10903 A4 5250 17096309, 25312788

*1 Base engine codes are the same as letter derivatives unless otherwise no	oted. Refer to PCM/VCM part number page
for additional engine code letter derivative information.	

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

ISSUED: ML-WP112

REVISED:

17-WGMXA04.3190-5 (1998)

1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET **PCM AND CALIBRATION PART NUMBERS**

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: WGMXA04.3190 EVAP FAMILY: WGMXE0111907

EN	GINE CODE	PCM/VCM PART NUMBER	ENGINE CALIB	OPER CALIB	TRANS CALIB
	51,52	16214815/BNRY	16232603	16215972PB	16216102 (3.08), 16216081 (3.42,3.73)
	51A,52A	16249365/BZBW		16258745PC	
	51B,52B	16258815/CCSC, 16266635/CFFN	16267618	16263425PD	
	51C,52C		9350948		
	53,54	16214815/BNRY	16216018	16215972PB	16216081 (3.42)
	53A,54A	16249365/BZBW		16258745PC	
,	53B,54B	16258815/CCSC, 16266635/CFFN	16267616	16263425PD	
	53C,54C		9350946		
	61,62	16214815/BNRY	16216016	16215972PB	16216140
	61A,62A	16249365/BZBW		16258745PC	
	61B,62B	16258815/CCSC, 16266635/CFFN	16267615	16263425PD	

REVISED: ML-WR023, ML-WR066, ML-WR093 ISSUED: ML-WP112

> 17-WGMXA04.3190-6 (1998)

1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET **PCM AND CALIBRATION PART NUMBERS**

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: WGMXA04.3190 EVAP FAMILY: WGMXE0111908

ENGINE CODE	PCM/VCM PART NUMBER	ENGINE CALIB	OPER CALIB	TRANS CALIB
51,52	16214815/BNRY	16232603	16215972PB	16216102 (3.08), 16216081 (3.42,3.73)
51A,52A	16249365/BZBW		16258745PC	
51B,52B	16258815/CCSC, 16266635/CFFN		16263425PD	
55,56	16214815/BNRY	16215985	16215972PB	16216081
55A,56A	16249365/BZBW		16258745PC	
55B,56B	16258815/CCSC, 16266635/CFFN	16267591	16263435PD	
55C,56C		16249483		
61,62	16215815/BNRY		16215972PB	16216140
61A,62A	16249365/BZBW	16216016	16258745PC	
61B,62B	16258815/CCSC, 16266635/CFFN	16267615	16263425PD	
61C,62C		9350945		

ISSUED: ML-WP112 REVISED: ML-WR023, ML-WR066, ML-WR093