(Page 1 of 2)

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-809 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: WGMXA05.0182 <u>Displacement</u>: 5.0 Liters (305 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.)	Miles	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	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.)	<u>Miles</u>	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen Oxides	Carbon Monoxide (20°F)
3751-5750	50,000	0.22	2.2	0.4	4.9
	120,000	0.33	2.7	0.46	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.

That.

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

0 1/ 11

day of May 1997.

R. B. Summerfield, Chief Mobile Source Operations Division

LIGHT DUTY TRUCK MODEL NUMBER DEFINITION

(Includes California Medium Duty Trucks)

E.O. #A-6-809

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-WP082

REVISED:

17-WGMXA05.0182-1 (1998)

ALL ENGINE CODE EXH STD: CA TIE VEH CLASS(ES): SINGLE CERT STA FUEL TYPE(S): D EVAP EMIS TEST	ES IN ENGINE F ER-1 (X) TLE PC () LDT ANDARD FOR M EDICATED (X) PROCEDURE:	ENGINE FAMIL FAMILY: CA(X) 4 EV() LEV() 1 F1() LDT2() 1 MULTI-CLASS ENGIN GASOLINE(X); CALIF() FEI	49S() 50S() ULEV() SULEV MDV1() MDV2(NE FAMILY: NA EXH EMIS TEST	AB965() ((); U.S (X) MDV3(ORVR: YES (i. EPA TIER-1 () MDV4 ()) NO(X)) MDV5() CBG(X)
SERVICE ACCUM	JLATION: STE	AMA() MFR AD	P(X); NMOG	EST PROCEI	JUNE. NA(A)	, 20017 ()
R/L TEST PROCE	OURE: PT SC	URCE (X)		•		
ENGINE CONFIGU	RATION: 14 () V6() V8(X) DISPL	ACEMENT: 5	.0 LITERS / 305	CU. IN.
ENGINE GOW	VAL	VES/CYLINDER: 2	2(X) 4()	RATE	D HP: 230 @ -	4600 RPM
ENGINE LOCATIO	N: FRONT (X)	DRIVE: FWD()	RWD(X)	4WD-FT()	4WD-PT ()
		SYSTEM: EGR,TW	C, 2HO25-HO25, 0	• •		
RLHP / DPA VALU	ES: 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 <u>WEIGHT</u>	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
51	С	C10703 C10753	A4	5000 5250	17096309, 25312788	25163841
52		C10703		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.

CARLINE NAME	CARLINE COD
C1500 PICKUP 2WD	03015
C1500 SIERRA 2WD	04010

ISSUED: ML-WP082

REVISED:

17-WGMXA05.0182-2 (1998)

EXH STD: CA TIE VEH CLASS(ES): SINGLE CERT STA FUEL TYPE(S): DI EVAP EMIS TEST F SERVICE ACCUMU R/L TEST PROCED ENGINE CONFIGU ENGINE LOCATION	S IN ENGINE F R-1 (X) TLE PC () LDT NDARD FOR M EDICATED (X) PROCEDURE: DLATION: STD OURE: PT SO RATION: I4 (VAL' N: FRONT (X) DN CONTROL:	FAMILY: CA(X) 4 EV() LEV() FI FI() LDT2() FI MULTI-CLASS ENGIN GASOLINE(X); CALIF() FEI MAA() MFR AD MURCE(X) V6() V8(X VES/CYLINDER: 2 SYSTEM: EGR,TW	49S() 50S() ULEV() SULEV MDV1() MDV2 NE FAMILY: NA EXH EMIS TEST D(X) NP(X); NMOG T DISPL 2(X) 4() DRIVE: FWD()	AB965 () ((); U.S (X) MDV3 (FUEL(S): IN TEST PROCES . ACEMENT: 5 RATE RWD ()	ORVR: YES (EPA TIER-1 () MDV4 () IDOLENE () OURE: NA (X) OURE: NA (X)) NO(X)) MDV5() CBG(X)) EQUIV() 5 CU. IN. 4600 RPM
ENGINE CODE & LETTER DERIVATIVES*1	LOC (C/F/NW) C	VEH MODELS (SEE PAGE 1) K10703 K10753	TRANS (M5,A4,ETC.) A4	EQUIV TEST <u>WEIGHT</u> 5250 5500	EGR SYSTEM PART NO. 17096309, 25312788	CATALYTIC CONVERTER PART NO. 25163841

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

ISSUED: ML-WP082

REVISED:

17-WGMXA05.0182-3 (1998)

^{*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.

FR: GENERAL MOT	ORS CORP.	ENGINE FAMIL	Y: WGMXA05.0182	2 EVAP F	FAMILY: WGM	(E0111908
ALL ENGINE CODES	IN ENGINE FA	AMILY: CA(X) 4	98() 508()	AB965 ()	ORVR: YES () NO(X)
EXH STD: CA TIER-	1 (X) TLE\	/() LEV() \	JLEV() SULEV	'(); U.S	. EPA TIER-1 ()
VEH CLASS(ES):	PC() LDT	() LDT2() M	MDV1() MDV2(X) MDV3() MDV4()	MDV5 ()
SINGLE CERT STAN	DARD FOR MI	JLTI-CLASS ENGIN	E FAMILY: NA			
FUEL TYPE(S): DED	ICATED (X)	GASOLINE (X);	EXH EMIS TEST	FUEL(S): IN	DOLENE()	CBG(X)
EVAR EMIS TEST PR	OCEDURE:	CALIF () FED)(X)			
SERVICE ACCUMULA	ATION: STD	AMA () MFR AD	P(X); NMOGT	EST PROCED	OURE: NA(X)	EQUIV()
R/I TEST PROCEDU	RE: PT SOL	JRCE(X)		•		
ENGINE CONFIGURA	ATION: 14 (V6() V8(X) DISPL	ACEMENT: 5	.0 LITERS / 305	CU. IN.
		ES/CYLINDER: 2	(X) 4()	RATE	D HP: 230 @ 4	4600 RPM
ENGINE LOCATION:			DRIVE: FWD()	RWD(X)	4WD-FT()	4WD-PT()
EXHAUST EMISSION			C, 2HO2S-HO2S, S	FI		
RLHP / DPA VALUES						
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	С	C10903 C10953	A4	5250 5500	17096309, 25312788	25163841

*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 CODI
C1500 PICKUP 2WD	03015
C1500 SIERRA 2WD	04010

ISSUED: ML-WP082

REVISED:

17-WGMXA05.0182-4 (1998)

ALL ENGINE CODE EXH STD: CA TIE VEH CLASS(ES): SINGLE CERT STA FUEL TYPE(S): DE EVAP EMIS TEST F SERVICE ACCUMU R/L TEST PROCED ENGINE CONFIGU	S IN ENGINE F R-1 (X) TLE PC () LDT NDARD FOR M EDICATED (X) PROCEDURE: JLATION: STD OURE: PT SO RATION: I4 (VAL N: FRONT (X)) V6() V8(X VES/CYLINDER: 2) SYSTEM: EGR,TW0	PS() 50S() JLEV() SULEV MDV1() MDV2() E FAMILY: NA EXH EMIS TEST D(X) P(X); NMOG T DISPL 2(X) 4() DRIVE: FWD()	AB965 () ((); U.S (X) MDV3 (FUEL(S): IN FEST PROCEC ACEMENT: 5 RATE RATE	DOLENE () OURE: NA (X) OURE: NA (X)) NO(X)) MDV5() CBG(X) EQUIV() CU. IN. 4600 RPM
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	С	K10903 K10953	A4	5250 5500	17096309, 25312788	25163841
52		K10903 K10953		5500		
*1 Base engine co	odes are the sar	ne as letter derivative r derivative informatic	es unless otherwise on.	noted. Refer t	o PCM/VCM pai	rt number page

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

ISSUED: ML-WP082

REVISED:

17-WGMXA05.0182-5 (1998)

FR: GENERAL MOTORS CORP. ENGINE FAMILY: WGMXA05.0182 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 ()
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: 14() V6() V8(X) DISPLACEMENT: 5.0 LITERS / 305 CU. IN.
VALVES / CYLINDER: 2 (X) 4 () RATED HP: 220 @ 4600 RPM
ENGINE LOCATION: FRONT(X) DRIVE: FWD() RWD(X) 4WD-FT() 4WD-PT()
EXHAUST EMISSION CONTROL SYSTEM: EGR,TWC, 2HO2S-HO2S, SFI
RLHP / DPA VALUES: SECTION 08.13.02.00
ENGINE CODE & LETTER LOC VEH MODELS TRANS TEST SYSTEM CONVERTER DERIVATIVES*1 (C/F/NW) (SEE PAGE 1) (M5,A4,ETC.) WEIGHT PART NO. PART NO.
53,54 C G11405 A4 5500 17096309, 25163811 25312788

G1500/G2500 CHEVROLET VAN 2WD G1500/G2500 SAVANA 2WD CARGO 03050 04040

ISSUED: ML-WP082

REVISED:

17-WGMXA05.0182-6 (1998)

^{*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.

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

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: WGMXA05.0182 EVAP FAMILY: WGMXE0111907

PCM/VCM PART NUMBER	ENGINE CALIB	OPER CALIB	TRANS CALIB
16214825/BNRZ	16216027	16215972PB	16216082, 16216104, 16216103
16249375/BZBX	16216027	16258745PC	
16258825/CCSD, 16266645/CFFT	16267626	16263425PD	
	16249502		
09355645/CLNX	09364752	09365095PE	
	PART NUMBER 16214825/BNRZ 16249375/BZBX 16258825/CCSD, 16266645/CFFT	PART NUMBER 16214825/BNRZ 16216027 16249375/BZBX 16216027 16258825/CCSD, 16266645/CFFT 16249502	PART NUMBER ENGINE CALIB 16214825/BNRZ 16216027 16215972PB 16249375/BZBX 16216027 16258745PC 16258825/CCSD, 16267626 16263425PD 16249502

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

MFR: GENERAL MOTORS CORP.

ENGINE FAMILY: WGMXA05.0182 EVAP FAMILY: WGMXE0111908

FN	GINE CODE	PCM/VCM PART NUMBER	ENGINE CALIB	OPER CALIB	TRANS CALIB
<u> </u>	51,52	16214825/BNRZ	16216027	16215972PB	16216082, 16216104, 16216103
	51A,52A	16249375/BZBX	16216027	16258745PC	
	51B,52B	16258825/CCSD, 16266645/CFFT	16267626	16263425PD	
	51C,52C		16249502		
	51D,52D	09355645/CLNX	09364752	09365095PE	
	53,54	16214825/BNRZ	16215986	16215972PB	16216082
į	53A,54A	16249375/BZBX	16215986	16258745PC	
	53B,54B	16258825/CCSD, 16266645/CFFT	16267595	16263425PD	
	53C,54C		16249486		
	53D,54D	09355645/CLNX	09360072	09365095PE	

REVISED: ML-WR010, ML-WP148, ML-WR067, ML-WR093, ML-WR098 ✓ ISSUED: ML-WP082