File

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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-853 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 light-duty trucks:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: XGMXT04.3182 Displacement: 4.3 Liters (262 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Three Way Catalytic Converter
Warm Up Three Way Catalytic Converter
Dual Heated Oxygen Sensors
Heated Oxygen Sensor
Secondary Air Injection
Exhaust Gas Recirculation
Sequential Multiport Fuel Injection

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

The non-methane organic gas (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) TLEV certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	Miles	<u>NMOG</u>	<u></u>	<u>NOx</u>	_ нсно_	CO (20°F)
0-3750	50,000	0.125	3.4	0.4	0.015	10.0
	100,000	0.156	4.2	0.6	0.018	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for NMOG reflect application of a 0.98 RAF for 1999 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	_Miles_	NMOG	_CO_	<u>NOx</u>	_ нсно_	CO (20°F)
0-3750	50,000	0.048	0.7	0.1	0.001	4.4
	100,000	0.052	0.7	0.1	0.001	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 fleet average NMOG exhaust mass emission 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."

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits 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 vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit 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 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.).

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.

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 5 day of March 1998.

R. B. Summerfield, Chief

Mobile Source Operations Division

LIGHT DUTY TRUCK MODEL NUMBER DEFINITION

(Includes California Medium Duty Trucks)

E.O. #A-6-853

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-XP104

REVISED:

17-XGMXT04.3182-1 (1999)

1999 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

FR: GENERAL MOTORS CORP. ENGINE FAMILY: XGMXT04.3182 EVAP FAMILY: XGMXE0095904 ALL ENGINE CODES IN ENGINE FAMILY: CA(X) 49S() 50S() AB965() ORVR: YES() NO(X) EXH STD: CA TIER-1 () TLEV (X) LEV () ULEV () SULEV (); U.S. EPA TIER-1 () PC() LDT1(X) LDT2() MDV1() MDV2() 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() EQUIV(X) R/L TEST PROCEDURE: PT SOURCE (X) ENGINE CONFIGURATION: 14 () V6 (X) V8 () DISPLACEMENT: 4.3 LITERS / 262 CU. IN. VALVES/CYLINDER: 2(X) 4() RATED HP: 170 @ 4400 RPM DRIVE: FWD() RWD(X) 4WD-FT() 4WD-PT() ENGINE LOCATION: FRONT (X) EXHAUST EMISSION CONTROL SYSTEM: LEGR, WUTWC+TWC, AIR, 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.
51	С	\$10603 J\$10603 \$10803	A4	3625	17096309, 25312788	25170976, 25173633: Warm-Up
- 52		S10603 JS10603 S10803		3750		
61	С	S10603 JS10603 S10803	M5	3625	17096309, 25312788	25170976, 25173633: Warm-Up
62		\$10603 J\$10603 \$10803		3750		

^{*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
CHEVROLET S10 PICKUP 2WD	03082
GMC SONOMA PICKUP 2WD	04072
ISUZU HOMBRE PICKUP 2WD	11520

SUED: ML-XP104

REVISED:

1999 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

FR: GENERAL M	MOTORS CORP	. ENGINE FAMI	LY: XGMXT04.318	2 EVAP	FAMILY: XGMX	E0095904
ALL ENGINE COD	ES IN ENGINE	FAMILY: CA(X)	498 () 508 ()	AB965 ()	ORVR: YES () NO(X)
		V(X) LEV()				
VEH CLASS(ES):	PC() LD	T1(X) LDT2()	MDV1() MDV2	() MDV3) MDV4()	MDV5()
		MULTI-CLASS ENGI		• •		
FUEL TYPE(S): D	EDICATED (X) GASOLINE(X);	EXH EMIS TEST	r fuel(s): IN	IDOLENE()	CBG (X)
		CALIF () FE				
SERVICE ACCUM	ULATION: ST	OAMA () MFR AD	OP(X); NMOG	FEST PROCE	DURE: NA()	EQUIV (X)
R/L TEST PROCE						
ENGINE CONFIGU) V6(X) V8(
		VES / CYLINDER:				
ENGINE LOCATIO	N: FRONT (X)	DRIVE: FWD ()	RWD(X)	4WD-FT()	4WD-PT()
EXHAUST EMISSION CONTROL SYSTEM: LEGR, WUTWC+TWC, AIR, SFI, 2HO2S-HO2S						
RLHP / DPA VALU	ES: SECTION	08.13.02.00				
ENGINE CODE				FOUIV	EGR	CATALYTIC
& LETTER	LOC	VEH MODELS		TEST	SYSTEM	CONVERTER
DERIVATIVES*1	(C/F/NW)	(SEE PAGE 1)	(M5,A4,ETC.)	WEIGHT	PART NO.	PART NO.
71,72	С	S10603	A4	3750	17096309,	
		S10803			25312788	25173633: Warm-Up
						·
81,82		S10603 S10803	M5			
		-				

*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 NAMECARLINE CODECHEVROLET \$10 PICKUP 2WD03082GMC SONOMA PICKUP 2WD04072

ISSUED: ML-XP104

REVISED:

17-XGMXT04.3182-3 (1999)

1999 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET **PCM AND CALIBRATION PART NUMBERS**

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: XGMXT04.3182 EVAP FAMILY: XGMXE0095904

IGINE CODE	PCM/VCM PART NUMBER	ENGINE CALIB	OPER CALIB	TRANS CALIB
51,52	16249315	16240955	16265965KB	16241025, 16241026, 16241027
51A,52A	16251685	16240955	09360505PA	
51B,52B	09360605	09364785	09360605PB	
61,62	16249315	16240958	16265965KB	16232746
61A,62A	16251685	16240958	09360505PA	
61B,62B	09360605	09364787	09360605PB	
71,72	16249315	16240940	16265965KB	16241028, 16241029, 16241030
71A,72A	16251685	16240940	09360505PA	
71B,72B	09360605	09364788	09360605PB	
81,82	16249315	16240947	16265965KB	16232746
81A,82A	16251685	16240947	09360505PA	
81B,82B	09360605	09364784	09365085B	
	51A,52A 51B,52B 61,62 61A,62A 61B,62B 71,72 71A,72A 71B,72B 81,82 81A,82A	IGINE CODE PART NUMBER 51,52 16249315 51A,52A 16251685 51B,52B 09360605 61,62 16249315 61A,62A 16251685 61B,62B 09360605 71,72 16249315 71A,72A 16251685 71B,72B 09360605 81,82 16249315 81A,82A 16251685	IGINE CODE PART NUMBER ENGINE CALIB 51,52 16249315 16240955 51A,52A 16251685 16240955 51B,52B 09360605 09364785 61,62 16249315 16240958 61A,62A 16251685 16240958 61B,62B 09360605 09364787 71,72 16249315 16240940 71A,72A 16251685 16240940 71B,72B 09360605 09364788 81,82 16249315 16240947 81A,82A 16251685 16240947	IGINE CODE PART NUMBER ENGINE CALIB OPER CALIB 51,52 16249315 16240955 16265965KB 51A,52A 16251685 16240955 09360505PA 51B,52B 09360605 09364785 09360605PB 61,62 16249315 16240958 16265965KB 61A,62A 16251685 16240958 09360505PA 61B,62B 09360605 09364787 09360605PB 71,72 16249315 16240940 16265965KB 71A,72A 16251685 16240940 09360505PA 71B,72B 09360605 09364788 09360605PB 81,82 16249315 16240947 16265965KB 81A,82A 16251685 16240947 09360505PA

ISSUED: ML-XP104

REVISED: ML-XR014, ML-XR046