File

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#### State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-6-856 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: XGMXT04.3187 <u>Displacement</u>: 4.3 Liters (262 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Three Way Catalytic Converter
Dual Heated Oxygen Sensors
Heated Oxygen Sensor
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	NMOG	_CO_	<u>NOx</u>	<u>нсно</u>	CO (20°F)
3751-5750	50,000	0.160	4.4	0.7	0.018	12.5
	100,000	0.200	5.5	0.9	0.023	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	<u></u>	<u>NOx</u>	нсно	CO (20°F)
3751-5750	50,000	0.088	1.2	0.2	0.002	4.5
	100,000	0.123	1.5	0.3	0.003	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 day of January 1998.

R. B. Summerfield, Chief Mobile Source Operations Division

#### LIGHT DUTY TRUCK MODEL NUMBER DEFINITION

(Includes California Medium Duty Trucks)

E.O. #A-6-856

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

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-XP069

**REVISED:** 

17-XGMXT04.3187-1 (1999)

## 1999 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

FR: GENERAL N	MOTORS CORP	. ENGINE FAMI	LY: XGMXT04.318	7 EVAP	FAMILY: XGMX	Œ0111906
ALL ENGINE COD	ES IN ENGINE F	FAMILY: CA(X)	495 ( ) 505 ( )	AB965 ( )	ORVR: YES (	) NO(X)
EXH STD: CA TIE	ER-1 ( ) TLE	V(X) LEV()	ULEV() SULE	V(); U.	S. EPA TIER-1 (	)
VEH CLASS(ES):	PC() LD1	T1() LDT2(X)	MDV1() MDV	2() MDV3	( ) MDV4( )	MDV5()
SINGLE CERT STA	ANDARD FOR M	IULTI-CLASS ENGI	NE FAMILY: NA			
FUEL TYPE(S): D	EDICATED (X)	GASOLINE(X);	EXH EMIS TES	T FUEL(S): If	NDOLENE ( )	CBG(X)
EVAP EMIS TEST	PROCEDURE:	CALIF ( ) FE	D(X)			
SERVICE ACCUM	ULATION: STD	AMA() MFR AD	OP(X); NMOG	TEST PROCE	DURE: NA()	EQUIV(X)
R/L TEST PROCE	OURE: PT SO	URCE(X)				
ENGINE CONFIGU	IRATION: 14 (	) V6(X) V8(	) DISPI	LACEMENT: 4	i.3 LITERS / 262	CU. IN.
VALVES / CYLINDER: 2 ( X ) 4 ( ) RATED HP: 190 @ 4400 RPM						
ENGINE LOCATION: FRONT(X) DRIVE: FWD() RWD(X) 4WD-FT() 4WD-PT()						
EXHAUST EMISSION CONTROL SYSTEM: LEGR, TWC, SFI, 2HO2S-HO2S						
RLHP / DPA VALUI	ES: SECTION	08.13.02.00				
ENGINE CODE				F011111	FOR	CATALACTIC
ENGINE CODE & LETTER	LOC	VEH MODELS	TRANS	EQUIV. TEST	EGR SYSTEM	CATALYTIC CONVERTER
ERIVATIVES*1	(C/F/NW)	(SEE PAGE 1)	(M5,A4,ETC.)	<u>WEIGHT</u>	PART NO.	PART NO.
<b>2</b>	С	M11005	A4	4250	17096309,	25161908
		<b>M</b> 11006		4750	25312788	

\*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 ASTRO VAN 2WD (CARGO)	03045
CHEVROLET ASTRO VAN 2WD (PASSENGER)	03060
GMC SAFARI 2WD (CARGO)	04035
GMC SAFARI 2WD (PASSENGER)	04050

ISSUED: ML-XP069

REVISED:

17-XGMXT04.3187-2 (1999)

## 1999 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

R: GENERAL M	IOTORS CORP.	ENGINE FAMIL	Y: XGMXT04.318	7 EVAP	FAMILY: XGMX	E0111906
ALL ENGINE CODE	ES IN ENGINE F	AMILY: CA(X)	495 ( ) 505 ( )	AB965 ( )	ORVR: YES (	) NO(X)
EXH STD: CA TIE	ER-1() TLE	V(X) LEV()	ULEV() SULE	/( ); U.S	S. EPA TIER-1 (	)
VEH CLASS(ÉS):	PC() LDT	11() LDT2(X)	MDV1() MDV2	( ) MDV3 (	) MDV4()	MDV5 ( )
SINGLE CERT STA	ANDARD FOR M	IULTI-CLASS ENGIN	NE FAMILY: NA			
FUEL TYPE(S): D	EDICATED (X)	GASOLINE (X);	EXH EMIS TEST	rfuel(s): In	IDOLENE()	CBG(X)
EVAP EMIS TEST	PROCEDURE:	CALIF ( ) FE	D(X)			
SERVICE ACCUM	JLATION: STD	AMA() MFR AD	P(X); NMOG1	TEST PROCE	OURE: NA()	EQUIV (X)
R/L TEST PROCE	OURE: PT SO	URCE (X)				
ENGINE CONFIGU	IRATION: 14 (	) V6(X) V8(	) DISPL	ACEMENT: 4	.3 LITERS / 262	CU. IN.
	VAL	VES / CYLINDER: 2	2(X) 4()	RATE	D HP: 190 @ 4	4400 RPM
ENGINE LOCATIO	N: FRONT (X	)	DRIVE: FWD()	RWD()	4WD-FT(X)	4WD-PT()
EXHAUST EMISSION	ON CONTROL S	SYSTEM: LEGR, T	WC, SFI, 2HO2S-H	D2S		
RLHP / DPA VALU	ES: SECTION	08.13.02.00				
ENGINE CODE & LETTER	LOC	VEH MODELS	TRANS	EQUIV. TEST	EGR SYSTEM	CATALYTIC
ERIVATIVES*1	(C/F/NW)	(SEE PAGE 1)	(M5,A4,ETC.)	WEIGHT	PART NO.	PART NO.
4	С	L11005	A4	4500	17096309, 25312788	25161908
		e as letter derivative derivative informatio		noted. Refer to	PCM/VCM part	t number page
GMC SAFARI AWI CHEVROLET AST		CARG0)	<u>CARLINE CO</u> 04037 03047	<u>ODE</u>		

ISSUED: ML-XP069

REVISED:

17-XGMXT04.3187-3 (1999)

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

MFR: GENERAL MOTORS CORP.

ENGINE FAMILY: XGMXT04.3187 EVAP FAMILY: XGMXE0111906

ENGINE CODE	PCM/VCM PART NUMBER	ENGINE CALIB	OPER CALIB	TRANS CALIB
2	16214815, 16266635	16267587	16263425PD	16267335 (3.23), 16267336 (3.42), 16267337 (3.73)
2A	16251685	16241006	9360505PA	16241079 (3.23), 16241080 (3.42), 16241081 (3.73)
2B	09360605	16249575	09365085PB	•.
4	16214815, 16266635	16267587	16263425PD	16267335 (3.42), 16267337 (3.73)
4A	16251685	16241000	9360505PA	16241080 (3.42), 16241081 (3.73)
4B	09360605	16249576	09365085PB	