(Page 1 of 3)

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-855 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: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Engine Family: XGMXT04.3185 Displacement: 4.3 Liters (262 Cubic Inches)

Exhaust Emission Control Systems & 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 gases (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) LEV certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	Miles	NMOG	<u></u>	<u>NOx</u>	<u>нсно</u>	<u>CO (20°F)</u>
3751-5750	50,000	0.100	4.4	0.4	0.018	12.5
	100,000	0.130	5.5	0.5	0.023	n/a

Reactivity Adjustment factor (RAF) for NMOG Mass Emission: 0.94

The certification exhaust emission values set forth for NMOG reflect application of a 0.94 RAF for 1999 model-year LEVs. The LEV certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle <u>Weight (lbs.)</u>	<u>Miles</u>	NMOG	_co_	<u>NOx</u>	<u>нсно</u>	CO (20°F)
3751-5750	50,000	0.041	0.6	0.2	0.001	4.8
	100,000	0.044	0.6	0.2	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 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 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.).

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 26th day of February 1998.

R. B. Summerfield, Chief

Mobile Source Operations Division

LIGHT DUTY TRUCK MODEL NUMBER DEFINITION

(Includes California Medium Duty Trucks)

E.O. #A-6-855

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

Digit 1 = Marketing Division

 Pattern A
 Pattern B

 C = Chevrolet
 1 = Chevrolet

 T = GMC
 2 = Pontiac

 H = Oldsmobile
 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 Pattern B

1 = 11,15,1500/3500-7300 Letter code designates trim level 2 = 21,25,2500/6400-8600 rather than series/GVWR. 3 = 31.35,3500/7100-14500

Digits 4 & 5

Pattern A = Dimensional Grouping Pattern B = Body Style

05 = Utility: Tahoe (2Dr), Yukon (2Dr), 06 = Passenger (Venture, Trans Sport, Silhouette)
Blazer, Jimmy, Bravada 16 = Passenger (Venture, Trans Sport, Silhouette)

Dual Sliding Doors

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

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-XP094 REVISED:

17-XGMXT04.3185-1 (1999)

Warm-Up

1999 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

EVAP FAMILY: XGMXE0095904 ENGINE FAMILY: XGMXT04.3185 MFR: GENERAL MOTORS CORP. ALL ENGINE CODES IN ENGINE FAMILY: CA(X) 49S() 50S() AB965() ORVR: YES() NO(X) EXH STD: CA TIER-1() TLEV() LEV(X) ULEV() SULEV(); U.S. EPA TIER-1 () PC() LDT1() LDT2(X) 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) DISPLACEMENT: 4.3 LITERS / 262 CU. IN. ENGINE CONFIGURATION: I4 () V6 (X) V8 () RATED HP: 180 @ 4400 RPM VALVES / CYLINDER: 2(X) 4() DRIVE: FWD() RWD(X) 4WD-FT() 4WD-PT(X) ENGINE LOCATION: FRONT (X) EXHAUST EMISSION CONTROL SYSTEM: LEGR, SFI, WUTWC+TWC, AIR, 2HO2S-HO2S RLHP / DPA VALUES: SECTION 08.13.02.00 CATALYTIC EQUIV. EGR ENGINE CODE SYSTEM CONVERTER TRANS TEST & LETTER LOC VEH MODELS PART NO. PART NO. DERIVATIVES*1 (C/F/NW) (SEE PAGE 1) (M5,A4,ETC.) WEIGHT 25175249. T10603 A4 4000 25312788 С 51, 52 25173633: JT10603

*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.

4250

CARLINE NAME	CARLINE CODE
CHEVROLET S10 PICKUP 4WD	03037
GMC SONOMA PICKUP 4WD	04027
ISUZU HOMBRE PICKUP 4WD	11550

SSUED: ML-XP094

REVISED: ML-XR039

T10803

T10653 JT10653

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: XGMXT04.3185 EVAP FAMILY: XGMXE0095904 ALL ENGINE CODES IN ENGINE FAMILY: CA(X) 49S() 50S() AB965() ORVR: YES() NO(X) EXH STD: CA TIER-1() TLEV() LEV(X) ULEV() SULEV(); U.S. EPA TIER-1() VEH CLASS(ES): PC() LDT1() LDT2(X) MDV1() MDV2() 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() EQUIV(X) R/L TEST PROCEDURE: PT SOURCE (X) ENGINE CONFIGURATION: I4() V6(X) V8() DISPLACEMENT: 4.3 LITERS / 262 CU. IN. RATED HP: 190 @ 4400 RPM VALVES / CYLINDER: 2(X) 4() DRIVE: FWD() RWD(X) 4WD-FT() 4WD-PT(X) ENGINE LOCATION: FRONT (X) EXHAUST EMISSION CONTROL SYSTEM: LEGR, SFI, WUTWC+TWC, AIR, 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 <u>PART NO.</u>	CATALYTIC CONVERTER PART NO.
61, 62	С	T10603 T10803	A4	4000	25312788	25175249: PU,
		T10653		4250		25173633:
		T10516		4500		Warm-Up
						25314446:
						2DR UTL

^{*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 4WD	03037
GMC SONOMA PICKUP 4WD	04027
CHEVROLET BLAZER 4WD	03070
GMC JIMMY 4WD	04060

ISSUED: ML-XP094

REVISED: ML-XR039

.FR: GENERAL N	MOTORS CORP.	ENGINE FAMI	LY: XGMXT04.3185	EVAP F	AMILY: XGMX	E0095904
ALL ENGINE COD	ES IN ENGINE F	AMILY: CA(X)	49S() 50S()	AB965 ()	ORVR: YES () NO(X)
EXH STD: CA TIE	ER-1() TLEV	() LEV(X)	ULEV() SULEV	/(); U.S	S. EPA TIER-1 ()
VEH CLASS(ES):	PC() LDT	1() LDT2(X)	MDV1 () MDV2	() MDV3 () MDV4()	MDV5 ()
SINGLE CERT STA	ANDARD FOR MI	JLTI-CLASS ENGI	NE FAMILY: NA			
FUEL TYPE(S): D	EDICATED (X)	GASOLINE(X);	EXH EMIS TEST	FUEL(S): IN	IDOLENE()	CBG(X)
EVAP EMIS TEST	PROCEDURE:	CALIF () FE	D(X)			
SERVICE ACCUM	JLATION: STD	AMA() MFR AD	P(X); NMOGT	EST PROCEC	OURE: NA()	EQUIV(X)
R/L TEST PROCE	OURE: PT SOL	JRCE(X)				
ENGINE CONFIGU	IRATION: 14 ()	V6(X) V8() DISPL	ACEMENT: 4	.3 LITERS / 262	CU. IN.
	VALV	ES / CYLINDER: 2	!(X) 4()	RATE	D HP: 190 @ 4	1400 RPM
ENGINE LOCATIO	N: FRONT(X)		DRIVE: FWD()	RWD(X)	4WD-FT()	4WD-PT()
EXHAUST EMISSION	ON CONTROL S'	YSTEM: LEGR, SF	FI, WUTWC+TWC, A	NR, 2HO2S-H	O2S	
RLHP / DPA VALUE	ES: SECTION 0	8.13.02.00				
ENGINE CODE & LETTER	LOC	VEH MODELS	TRANS	EQUIV. TEST	EGR SYSTEM	CATALYTIC CONVERTER
ERIVATIVES*1	(C/F/NW)	(SEE PAGE 1)	(M5,A4,ETC.)	WEIGHT	PART NO.	PART NO.
61, 62	С	S10516	A4	4000	25312788	25314446,
						25173633:
						Warm-Up
*1 Base engine cod	des are the same	as letter derivatives	unless otherwise n	oted. Refer to	PCM/VCM part	number page
for additional eng	gine code letter d	erivative information	1.			
_						
CAR CHEVROLET BLAZ	LINE NAME ZER 2WD		<u>CARLINE CO</u> 03090	<u>DE</u>		
GMC JIMMY 2WD			04076			

SUED: ML-XP094

REVISED:

FR: GENERAL	MOTORS COR	P. ENGINE FAMI	LY: XGMXT04.318	35 EVAP	FAMILY: XGMX	(E0095905
ALL ENGINE COD	ES IN ENGINE	FAMILY: CA(X)	498() 508()	AB965 ()	ORVR: YES () NO(X)
EXH STD: CA TI	ER-1() TLE	EV() LEV(X)	ULEV() SULE	₹V(); U.	S. EPA TIER-1 (·)
VEH CLASS(ES):	PC() LD	T1() LDT2(X)	MDV1() MDV	2() MDV3	() MDV4()	MDV5()
SINGLE CERT ST	ANDARD FOR	MULTI-CLASS EŃGI	NE FAMILY: NA			
FUEL TYPE(S):	EDICATED (X) GASOLINE(X);	EXH EMIS TES	T FUEL(S): II	NDOLENE()	CBG(X)
EVAP EMIS TEST	PROCEDURE:	CALIF () FE	D(X)			
SERVICE ACCUM	ULATION: ST	DAMA() MFRA	OP(X); NMOG	TEST PROCE	DURE: NA()	EQUIV(X)
R/L TEST PROCE	DURE: PTS	OURCE (X)				
ENGINE CONFIGU	JRATION: 14 () V6(X) V8() DISP	LACEMENT: 4	1.3 LITERS / 262	2 CU. IN.
	VAI	VES / CYLINDER:	2(X) 4()	RATE	ED HP: 190 @	4400 RPM
ENGINE LOCATIO	N: FRONT (X	()	DRIVE: FWD()	RWD(X)	4WD-FT()	4WD-PT()
	·	SYSTEM: LEGR, S		, -	, ,	,
RLHP / DPA VALU				,		
ENGINE CODE				EQUIV.	EGR	CATALYTIC
& LETTER PERIVATIVES*1	LOC (C/F/NW)	VEH MODELS (SEE PAGE 1)	TRANS (M5,A4,ETC.)	TEST <u>WEIGHT</u>	SYSTEM <u>PART NO.</u>	CONVERTER PART NO.
						· · · · · · · · · · · · · · · · · · ·
61, 62	С	S10506	A4	4250	25312788	25314447, 25173633:
						Warm-Up
						•
*1 Rase engine co	dos ara tha san	ne as letter derivative	a uslace athanvias	noted Defert	NOMA/CM non	t number nese
		derivative informatio		noted. Refer to	D POW/VOW Par	t ilumber page
CAF	RLINE NAME		CARLINE C	ODE		

03090

04076

SUED: ML-XP094 REVISED:

GMC JIMMY 2WD

CHEVROLET BLAZER 2WD

17-XGMXT04.3185-5 (1999)

FR: GENERAL MOTORS C ALL ENGINE CODES IN ENG EXH STD: CA TIER-1 () VEH CLASS(ES): PC ()	INE FAMILY: CA(X)	49S() 50S() ULEV() SULE ^V	AB965() /(); U.S	ORVR: YES (6. EPA TIER-1 () NO(X)
SINGLE CERT STANDARD FOR THE TYPE(S): DEDICATED EVAP EMIS TEST PROCEDU SERVICE ACCUMULATION:	OR MULTI-CLASS ENGIND (X); RE: CALIF() FE	NE FAMILY: NA EXH EMIS TEST D(X)	rfuel(s): In	IDOLENE()	CBG(X)
R/L TEST PROCEDURE: PENGINE CONFIGURATION:	T SOURCE (X)) DISPL	ACEMENT: 4	.3 LITERS / 262	CU. IN.
ENGINE LOCATION: FRONT EXHAUST EMISSION CONTE RLHP / DPA VALUES: SECT	ROL SYSTEM: LEGR, SF				4WD-PT (X)
ENGINE CODE & LETTER LOC DERIVATIVES*1 (C/F/NW				EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
61, 62 C	T10506	A4	4750	25312788	25314447, 25173633: Warm-Up
*1 Base engine codes are the for additional engine code I			noted. Refer to	o PCM/VCM par	t number page ,
CARLINE NAM CHEVROLET BLAZER 2WD GMC JIMMY 2WD	<u>1E</u>	<u>CARLINE CO</u> 03090 04076	<u>DDE</u>		

SUED: ML-XP094

REVISED:

17-XGMXT04.3185-6 (1999)

FR: GENERAL M	OTORS CORP.	ENGINE FAMIL	Y: XGMXT04.3185	5 EVAP F	AMILY: XGMX	E0095905
ALL ENGINE CODES IN ENGINE FAMILY: CA (X) 49S() 50S() AB965() ORVR: YES() NO (X)						
EXH STD: CA TIER-1() TLEV() LEV(X) ULEV() SULEV(); U.S. EPA TIER-1()						
VEH CLASS(ES): PC() LDT1() LDT2(X) MDV1() MDV2() MDV3() MDV4() MDV5()						
SINGLE CERT STA	NDARD FOR M	ULTI-CLASS ENGIN	IE FAMILY: NA			
FUEL TYPE(S): D	EDICATED (X)	GASOLINE (X);	EXH EMIS TEST	r fuel(s): In	IDOLENE()	CBG(X)
EVAP EMIS TEST	PROCEDURE:	CALIF () FE)(X)			
SERVICE ACCUMU	JLATION: STD	AMA () MFR AD	P(X); NMOG1	TEST PROCE	DURE: NA()	EQUIV(X)
R/L TEST PROCED	DURE: PT SO	URCE(X)				
ENGINE CONFIGU	RATION: 14 () V6(X) V8() DISPL	ACEMENT: 4	.3 LITERS / 262	CU. IN.
	· VAL\	/ES / CYLINDER: 2	(X) 4()	RATE	D HP: 190 @	4400 RPM
ENGINE LOCATION	N: FRONT(X)	•	DRIVE: FWD()	RWD()	4WD-FT (X)	4WD-PT()
EXHAUST EMISSION	ON CONTROL S	SYSTEM: LEGR, SF	FI, WUTWC+TWC, A	AIR, 2HO2S-H	O2S	
RLHP / DPA VALUE	ES: SECTION (08.13.02.00				
ENGINE CODE					EGR	
& LETTER DERIVATIVES*1		VEH MODELS (SEE PAGE 1)	TRANS (<u>M5,A4,ETC.)</u>	TEST <u>WEIGHT</u>		
61, 62	С	HT10506	A4	4750	25312788	25314447, 25173633:
						Warm-Up
*4 D	d aga tha again	e as letter derivatives	a unlace otherwise r	noted Defer to	PCMA/CM par	t number nage
		e as letter derivatives derivative information		ioled. Ivelel id	71 Olen VOIVI pai	t Halliber page
	•					
	RLINE NAME		CARLINE CO	ODE		
OLDSMOBILE BRA	AVADA		06520			

3SUED: ML-XP094

REVISED:

17-XGMXT04.3185-7 (1999)

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

MFR: GENERAL MOTORS CORP.

ENGINE FAMILY: XGMXT04.3185

EVAP FAMILY: XGMXE0095904

XGMXE0095905

ENGINE CODE	PCM/VCM PART NUMBER	ENGINE CALIB	OPER CALIB	TRANS CALIB
51,52	16249315	16240955	16265965KA	16241025, 16241026, 16241027
51A,52A	16251685	16240955	09360505PA	
51B,52B	09360605	09364785	09365085PB	
61,62	16249315	16240940	16265965KA	16241028, 16241029, 16241030
61A,62A	16251685	16240940	09360505PA	
61B,62B	09360605	09364788	09365085PB	

ISSUED: ML-XP094

REVISED: ML-XR014, ML-XR046