(Page 1 of 3)

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-788 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 passenger cars:

Fuel Type: Gasoline

Engine Family: WGMXV02.4025 <u>Displacement</u>: 2.4 Liters (145 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation
Three Way Catalytic Converter
Oxygen Sensor
Heated Oxygen Sensor
Sequential Multiport Fuel Injection

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:

Miles	Non-Methane	Carbon	Nitrogen	Carbon
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Monoxide (20⁰F)</u>
50,000	0.25	3.4	0.4	10.0
100,000	0.31	4.2	0.6	n/a

The certification exhaust emission values for this engine family in grams per mile are:

Miles	Non-Methane	Carbon	Nitrogen	Carbon
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Monoxide (20°F)</u>
50,000	0.09	2.6	0.3	7.5
100,000	0.10	3.3	0.4	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 non-methane organic gas (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 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 13 day of May 1997.

Quy Ul Hay 1997.

R. B. Summerfield, Chief

Mobide Source operations Division

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET **GASOLINE-FUELED PASSENGER CARS**

VEHICLE MODELS:

1 <u>J C 3 7</u> (EXAMPLE)

Digit 1 - Selling Division

- 1 Chevrolet
- 2 Pontiac
- 3 Oldsmobile
- 4 Buick
- 6 Cadillac
- 8 Saturn

Digit 2 - Body Designation

- С - Park Avenue
- Ε - Eldorado
- F - Camaro, Firebird/Formula
- G - Riviera, Aurora
- Bonneville, Eighty-Eight/Regency, LeSabre H
- J - Cavalier, Sunfire
- K - Seville
- Ksp Deville, Limousine, Funeral Coach/Hearse
- N - Grand Am, Achieva, Skylark, Malibu, Cutlass
- Grand Prix, Regal, Century, Lumina, Monte Carlo, Intrigue W
- Υ - Corvette
- Saturn SC, SL, SW, EV1 Ζ

Digit 3 - Trim Level (Examples)

B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, T, U, V, W, X, Y, Z

Digits 4 & 5 - Body Style (Examples)

07 - 2Dr Sport Coupe	37 - 2Dr Hardtop Coupe
08 - 2Dr Hatchback Coupe	47 - 2Dr Hardtop Coupe
11 - 2Dr Notchback	47 - 2Dr Hardtop Coupe
15 - 2Dr Station Wagon	57 - 2Dr Hardtop Coupe
10 - 2Di Station Wagon	67 - 2Dr Convertible Coupe
19 - 4Dr Sedan	68 - 4Dr Hatchback Sedan
23 - 4Dr Aux. Seat Sedan	69 - 4Dr (Notchback) Sedan
27 - 2Dr (Notchback) Coupe	77 - 2Dr Hatchback Coupe
29 - 4Dr Sedan	77 - 2DI Halchback Coupe
35 - 4Dr Station Wagon	87 - 2Dr Hatchback Coupe
OO - ADI OLEHOII AABGOU	90 - Commercial Chassis

ISSUED: ML-WP072

REVISED:

17-WGMXV02.4025-1 (1998)

1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: WGMXV02.4025 EVAP FAMILY: WGMXE0095904 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(X) LDT1() 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(X) EQUIV() R/L TEST PROCEDURE: PT SOURCE (X) ENGINE CONFIGURATION: I4 (X) V6 () V8 () DISPLACEMENT: 2.4 LITERS / 145 CU. IN. VALVES/CYLINDER: 2() 4(X) RATED HP: 150 @ 5600 RPM ENGINE LOCATION: FRONT (X) DRIVE: FWD(X) RWD() 4WD-FT() 4WD-PT() EXHAUST EMISSION CONTROL SYSTEM: EGR, O2S, HO2S, SFI, TWC RLHP / DPA VALUES: SECTION 08.13.02.00

2NE69 17096100 253173 2NW37 3NL37 3NL69 2NW69	& LETTER RIVATIVES*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.
2JB37 2JD37 1JF67 3250	21	С	2NE69 2NW37 3NL37 3NL69	М5	3250	•	25160531, 25317337
0200	22		2JB37		3125		25160527
					3250		

^{*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		
CAVALIER	03160		
SUNFIRE	07060		
ACHIEVA	06010		
GRAND AM	07025		
	07023		

#SUED: ML-WP072

REVISED: ML-WR063

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

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: WGMXV02.4025 EVAP FAMILY: WGMXE0095904

ENGINE CODE	PCM/VCM PART NUMBER	ENGINE CALIB	OPER CALIB	TRANS CALIB
21	16204850	16250053	NA	NA
21A		16267423		
21B		09351433		
21C		09353873		
22		16252513		
22A		16267273		
22B		09351353		
22C		09353773		
2				