#### State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-6-712 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 1996 model-year General Motors Corporation exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: TGM3.8V8GFFK Displacement: 3.8 Liters (231 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation
Three Way Catalytic Converter
Heated Oxygen Sensors (Two)
Sequential Multiport Fuel Injection
Supercharger

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

The certification exhaust emission standards (in-use compliance standards in parentheses) for this engine family in grams per mile are:

Miles_	Non-Methane Hydrocarbons	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Carbon <u>Monoxide (20<sup>0</sup>F)</u>
50,000	0.25 (0.32)	3.4 (5.2)	0.4 (0.4)	10.0 (10.0)
100,000	0.31 (n/a)	4.2 (n/a)	0.6 (n/a)	n/a

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

Miles_	Non-Methane Hydrocarbons	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Carbon <u>Monoxide (20<sup>0</sup>F)</u>
50,000	0.15	1.9	0.1	6.0
100,000	0.15	2.3	0.2	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, based on a separate compliance plan submitted by the vehicle manufacturer, the listed vehicle models are permitted alternative in-use compliance 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 the submitted alternative in-use compliance plan satisfies the requirement that a maximum of 20 percent of the manufacturer's projected sales of 1996 model-year California-certified passenger cars and light-duty trucks will be subject to alternative in-use compliance as stipulated in the above-referenced standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 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, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

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 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  $\frac{13^7}{\text{day}}$  of July

R. B./Summerfield 'Assistant Division Chief

Mobile Source Division

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

#### VEHICLE MODELS:

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

## <u>Digit 1 - Selling Division</u>

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

#### Digit 2 - Body Designation

- Cutlass Ciera, Cutlass Cruiser, Century, Century Wagon
- Caprice, Caprice Wagon, Roadmaster Wagon, Coachbuilder Wagon, B
- Roadmaster
- Ninety-Eight, Park Avenue
- Fleetwood, Limousine, Funeral Coach/Hearse
- Eldorado
- Camaro, Firebird/Formula
- Riviera, Aurora Bonneville, Eighty-Eight, LeSabre Cavalier, Sunfire
- Seville
- Ksp Deville/Concours
- Corsica, Beretta
- Grand Am, Achieva, Skylark
- Grand Prix, Regal, Cutlass Supreme, Lumina, Monte Carlo
- Corvette Υ
- Saturn SC. SL. SW

#### Digit 3 - Trim Level

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

07	-	2Dr	Sport Coupe
80	-	2Dr	Hatchback Coupe
			Notchback

- 15 2Dr Station Wagon 19 4Dr Sedan
- 23 4Dr Aux. Seat Sedan 27 2Dr (Notchback) Coupe
- 29 4Dr Sedan
- 35 4Dr Station Wagon

- 37 2Dr Hardtop Coupe
- 47 2Dr Hardtop Coupe 57 2Dr Hardtop Coupe 67 2Dr Convertible Coupe
- 68 4Dr Hatchback Sedan 69 4Dr (Notchback) Sedan 77 2Dr Hatchback Coupe 87 2Dr Hatchback Coupe

  - 90 Commerical Chassis

ISSUED: ML-TP088 REVISED:

17-TGM3.8V8GFFK-1

## 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

FR: G	ENERAL MOTORS CORP	ENGINE	FAMILY: _	TGM3.8V8GFFK	EVAP.	FAMILY: _	TGM1070AYMAA
	INE CODES IN ENGIN		CA	495		50S <u>X</u>	AB965
EXH STD	: CA Tier-1 <u>X</u>				;		PA Tier-1 <u>X</u>
EVAP ST	D: 50K <u>X</u> USEF	UL LIFE WIT	ዝ R/L ;	IN-USE EXH S			
VEH CLA	SS(ES): PC <u>X</u> LD	T1 LD7	MDV	1 MDV2	MDV3_	MDV4	MDV5
SINGLE	CERT STD FOR MULTI	-CLASS ENGI	NE FAMILY:	<u>NA</u>			
FUEL TY	PE(S): DEDICATED_	X GASOL1	NE <u>X</u> ;	EMISS TEST F	UEL(S):		
SERVICE	ACCUM: STD AMA_X	MFF	R ADP :	NMOG TEST		<u>NA</u>	EQUIV
R/L TES	T PROC: <u>NA</u>	PT SOURCE_	<u> </u>	HYBRID TYPE:			CYCLE: NA
ENGINE	CONFIGURATION: 14	V6 <u>_X</u>	V8				/ <u>231</u> CU. IN.
	VA	LVES/CYLING	DER: 2 <u>X</u>	· <del></del>			@ <u>5200</u> RPM
	LOCATION: FRONT_X	<del></del>	DRIVE:	FWD <u>X</u> RWI		4WD-FT	
EXHAUST	EMISSION CONTROL	SYSTEM: _E	GR-TWC-HO2	<u>۲ کی (S(2)-SFI) کی د</u>			
RLHP/DP	A VALUES: <u>SECTIO</u>	N 08.13.02.	00_				
ENG		TRANS.	EQUIV.			EGR	CATALYTIC
CODE	VEH MODELS	(M5,A4	TEST	PCM PCM		SYSTEM	CONVERTER
<u>(LOC)</u>	(SEE PAGE 1)	ETC.)	WEIGHT	PART NO./CA	-1B	PART NO.	PART NO.
1.1M	3HY69	A4/1	3875	16209020/16220	5534	17095163	
	4CU69		4000			17096199	
1A,1N				16209020/1623	1494		
1B,1P				16209020/1623	2124		
2	2HX69		3875	16209020/1622	R174 *1		25162359.
L	2HZ69		4000	16209020/1622			25164363
2A				16209020/1623			
				16209020/1623	2194 *2		
2B				16209020/1623			
				16209020/1623	2104 ^2		
					LL 196 -		otion

 $\star 1$  PCM has two shifting patterns (normal and performance) with 126 mph restriction.  $\star 2$  PCM has two shifting patterns (normal and performance) with 108 mph restriction.

CARLINE NAME CARLINE CODE
PONTIAC BONNEVILLE 33045
OLDSMOBILE EIGHTY EIGHT 29025
BUICK PARK AVENUE 08040

SSUED: ML-TP088

REVISED: ML-TR023, ML-TR039, ML-TP134

# 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GE	NERAL MOTORS CORP.	ENGINE FAMILY	: <u>TGM3.8V</u> 8	BGFFK EVAP. FAMILY: T	GM1070AYMAA	
ENG CODE (LOC)	VEH MODELS (SEE PAGE 1)	TRANS. (M5.A4 <u>ETC.)</u>	EQUIV. TEST <u>WEIGHT</u>	PCM PART NO./CALIB	EGR SYSTEM <u>PART NO.</u>	CATALYTIC CONVERTER PART NO.
1C,1R	3HY69 4CU69	A4/1	3875 4000	16209020/16234684	17095163. 17096199	25164363
1D.1S				16209020/16233414		
1E,1T				16209020/16238544		
2C	2HX69		2875	16209020/16233484 *1 16209020/16233444 *2		
2D				16209020/16238614 *1 16209020/16238574 *2		

CARLINE NAME	CARLINE CODE
PONTIAC BONNEVILLE	33045
OLDSMOBILE EIGHTY EIGHT	29025
BUICK PARK AVENUE	08040

<sup>\*1</sup> PCM has two shifting patterns (normal and performance) with 126 mph restriction. \*2 PCM has two shifting patterns (normal and performance) with 108 mph restriction.

# 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GF	ENERAL MOTORS CORP.	ENGINE FAMIL	Y: <u>TGM3.8V8</u>	<u>GFFK</u> EVAP. FAMILY: _	TGM1070AYPAA	
ALL ENG	INE CODES IN ENGINE F	FAMILY: CA	<u> </u>	49S 50S <u>X</u>	AB965	
EXH STD	: CA Tier-l <u>X</u> TL	.EV LEV	ULEV	; U.S. E	PA Tier-1 X	
EVAP ST	D: 50K <u>X</u> USEFUL	LIFE WITH R/L_	: IN-US	E EXH STD: FULL A	LTERNATIVE <u>X</u>	
VEH CLAS	SS(ES): PC <u>X</u> LDT1_	LDT2	MDV1 M	DV2 MDV3 MDV4	MDV5	
SINGLE (	CERT STD FOR MULTI-CL	ASS ENGINE FAM	IILY: <u>NA</u>			
FUEL TY	PE(S): DEDICATED <u>X</u>	GASOLINE_X_	: EMISS	TEST FUEL(S): INDO	. PHASE 2 <u>X</u>	
	ACCUM: STD AMA_X		<del>-</del>	OG TEST PROC: NA		
				D TYPE: NA APL		
ENGINE (				SPLACEMENT: <u>3.8</u> LITERS		
				RATED HP: 240		
				RWD 4WD-FT		
EXHAUST	EMISSION CONTROL SYS	STEM: <u>EGR-TWC</u>	C-H02S(2)-SFI			
RLHP/DP/	A VALUES: <u>SECTION (</u>	08.13.02.00				
ENG		TRANS.	EQUIV.		EGR	CATALYTIC
CODE	VEH MODELS	(M5,A4	TEST	PCM PART NO./CALIB	SYSTEM PART NO.	CONVERTER PART NO.
<u>.0C)</u>	(SEE PAGE 1)	<u>ETÇ.)</u>	<u>WEIGHT</u>			
3	4GD07	A4/1	4000	16209020/16226524	17095163. 17096199	25164363
3A				16209020/16230444	1,05020	
3B				16209020/16232134		
3C				16209020/16234674		
3D				16209020/16233424		
3E				16209020/16238554		
0.0						
<u></u>						
	ARLINE NAME	CARLINE CO	<b>N</b> F			

ISSUED: ML-TP088 REVISED: ML-TR023, ML-TR039, ML-TR042, ML-TR046, ML-TP134, ML-TR097

17-TGM3.8V8GFFK-3