#### State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-6-706-A 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:

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

<u>Fuel\_Type</u>: Gasoline

Engine Family: TGM2.2V8G2EK Displacement: 2.2 Liters (134 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

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

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

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

Miles	Non-Methane <u>Organic Gas</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Formaldehyde</u>	Carbon <u>Monoxide (20<sup>0</sup>F)</u>
50,000 100,000	0.125 0.156	3.4 4.2	0.4	0.015 0.018	10.0 n/a
Reactivit	ty Adjustment	Factor (RAF)	for NMOG Ma	<u>ss Emission</u> :	0.98

The certification exhaust emission values set forth for non-methane organic gas (NMOG) reflect application of a 0.98 RAF for 1996 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

	Non-Methane	Carbon	Nitrogen		Carbon
Miles	<u>Organic Gas</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Formaldehyde</u>	<u>Monoxide (20<sup>0</sup>F)</u>
50,000 100,000	0.111 0.114	2.4 2.6	0.2 0.3	0.002 0.002	4.4 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 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 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. GENERAL MOTORS CORPORATION

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 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."

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  $\cancel{II}$  day of September 1995.

R. B. Summerfield Assistant Division Chief Mobile Source Division

#### (FOR CARB USE ONLY)

E.O. <u>#A-6-706-</u> #A-6-706-A

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

VEHICLE MODELS:

<u>1 J C 3 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

- A Cutlass Ciera, Cutlass Cruiser, Century, Century Wagon
- B Caprice, Caprice Wagon, Roadmaster Wagon, Coachbuilder Wagon, Roadmaster
- C Ninety-Eight, Park Avenue
- D Fleetwood, Limousine, Funeral Coach/Hearse
- E Eldorado

F

- Camaro, Firebird/Formula
- G Riviera, Aurora
- H Bonneville, Eighty-Eight, LeSabre
- J Cavalier, Sunfire
- K Seville
- Ksp Deville/Concours
- L Corsica, Beretta
- N Grand Am, Achieva, Skylark
- W Grand Prix, Regal, Cutlass Supreme, Lumina, Monte Carlo
- Y Corvette
- Z 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 08 - 2Dr Hatchback Coupe 11 - 2Dr 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-TP097

REVISED: ML-TR036A

17-TGM2.2V8G2EK-1

# 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

	NERAL MOTORS CORP. NE CODES IN ENGINE		FAMILY: _ CA_X_	<u>TGM2.2V8G2E</u> 49S		P. FAMILY: <u>TG</u> 50S	M1089AYM1A AB965
EXH STD:		TLEV <u>X</u>	LEV	•	:		Tier-1 NA
EVAP STD	: 50K USEFU	JL LIFE WIT	Ή R/L <u>X</u> ;	IN-USE E			ERNATIVE
	S(ES): PC <u>X</u> LD				MDV	/3 MDV4	MDV5
SINGLE C	ERT STD FOR MULTI						
FUEL TYP	· · ·		NE <u>X</u> :		ST FUEL(S		PHASE 2 <u>X</u>
SERVICE		-	ADP <u>X</u> ;		TEST PROC		
R/L TEST		PT SOURCE_		HYBRID T		_	YCLE: NA
ENGINE C	-	X V6		UISPLA 4	RATED H	<u>2.2</u> LITERS/_ P: 1200	<u>134</u> CU. IN. <u>5200</u> RPM
ENGINE L		LVES/CYLIND	DRIVE:	4 FWD_X_	RWD		4WD-PT
	EMISSION CONTROL	-					
		<u>    08.13.02.</u>					
ENG CODE	VEH MODELS	TRANS. (M5,A4	EQUIV. TEST	IGNITI (ECM/P		EGR SYSTEM	CATALYTIC CONVERTER
<u>(LOC)</u>	(SEE PAGE 1)	ETC.)	WEIGHT	PART NO.		PART NO.	PART NO.
61A	1JC37 1JF69	A3	3000	16231851/1	6231513	17096100. 17096306	25163086
	2JB37 2JB69 1JC69		3125				
	1JF67						
61B	2JB67			16231851/1	6234163		
61C				16231851/1	6235133		
62A	1JC37		3000	16231851/1	6231513		
	1JF69 2JB37						
	2JB69 1JC69						
	1JF67						
62B	2JB67			16231851/1	6234163		
62C				16231851/1			
	INE NAME	CARLINE					
PONTIAC	T CAVALIER SUNFIRE	1206 3306					
SSUED:	ML-TP097	REVIS	ED: ML-TR	)36A, ML-TRO	)49, <b>M</b> L-TI	P141, ML-TR056	5
					<u>.</u>	17-TGM2.2V8	
						74 - FALICE C. K.	JULLIN E

17-22V8G

# E.O. # A-6-<u>706-A</u>

# 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: _	GENERAL MOTORS CORP.	_ ENGINE	FAMILY: _	TGM2.2V8G2EK EVA	P. FAMILY: _	TGM1089AYM1A
ENG CODE <u>(LOC)</u>	VEH MODELS (SEE PAGE 1)	TRANS. (M5,A4 _ETC.)	EQUIV. TEST <u>WEIGHT</u>	IGNITION (ECM/PCM) PART_NO./CALIB	EGR SYSTEM <u>PART_NO.</u>	CATALYTIC CONVERTER <u>PART NO.</u>
63A	1JC37 1JC69 2JB37 2JB69 1JF69	Α4	3000 3125	16231851/16231533	17096100. 17096306	25163086
	1JF67 2JB67		3250			
63B				16231851/16234143		
63C				16231851/16235153		
64A	1JC37 1JC69 2JB69		3000	16231851/16231533		
	2JB37 1JF69		3125			
	1JF67 2JB67		3250			
				16231851/16234143		
64C				16231851/16235153		

CARLINE NAME	<u>CARLINE_CODE</u> 12060 33060
PONTIAC SUNFIRE	22000

REVISED: ML-TR036A, ML-TR049, ML-TP141, ML-TR056 17-TGM2.2V8G2EK-3

17-22V8G

TSSUED: ML-TP097