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### (Page 1 of 3)

#### State of California AIR RESOURCES BOARD

### EXECUTIVE ORDER A-6-708-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)

Fuel Type: Gasoline

Engine Family: TGM2.4VJG2EK Displacement: 2.4 Liters (145 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:

	Non-Methane	-Carbon	Nitrogen		Carbon
<u>Miles</u>	<u>Organic Gas</u>	<u>Monoxide</u>	Oxides	<u>Formaldehyde</u>	<u>e Monoxide (20<sup>0</sup>F)</u>
50,000 100,000	0.125 0.156	3.4 4.2	0.4 0.6	0.015 0.018	10.0 n/a
<u>Reactivit</u>	y Adjustment	Factor (RAF)	for NMOG Mas	s Emission:	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
<u>Miles</u>	<u>Organic Gas</u>	<u>Monoxide</u>	Oxides	<u>Formaldehyde</u>	<u>Monoxide (20<sup>0</sup>F)</u>
50,000 100,000	0.073	1.5 2.2	0.1 0.2	0.001 0.002	5.5 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 10 day of August 1995.

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R. B. Summerfield Assistant Division Chief Mobile Source Division

# (FOR CARB USE ONLY)

E.O. #A 6 708 #A-6-708A

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

\_; <u>1 J C 3 7</u> (EXAMPLE) VEHICLE MODELS:

# Digit 1 - Selling Division

- 1 Chevrolet
- 2 Pontiac 3 Oldsmobile
- 4 Buick

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- 6 Cadillac
- 8 Saturn

### Digit 2 - Body Designation

- Cutlass Ciera, Cutlass Cruiser, Century, Century Wagon А
- Caprice, Caprice Wagon, Roadmaster Wagon, Coachbuilder Wagon, В Roadmaster
- Ninety-Eight, Park Avenue Fleetwood, Limousine, Funeral Coach/Hearse D
- E F G - Eldorado
  - Camaro, Firebird/Formula

  - Riviera, Aurora
    Bonneville, Eighty-Eight, LeSabre
    Cavalier, Sunfire
- H J Κ
  - Seville
- Ksp Deville/Concours
- Corsica, Beretta
- Grand Am, Achieva, Skylark Ν
- Grand Prix, Regal, Cutlass Supreme, Lumina, Monte Carlo W
- Y - Corvette
- Saturn SC, SL. SW Ζ

## 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	37 - 2Dr Hardtop Coupe 47 - 2Dr Hardtop Coupe
11 - 2Dr Notchback	57 - 2Dr Hardtop Coupe
15 - 2Dr 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 29 - 4Dr Sedan	77 - 2Dr Hatchback Coupe 87 - 2Dr Hatchback Coupe
35 - 4Dr Station Wagon	90 - Commerical Chassis

ISSUED: ML-TP095 REVISED: ML-TR024

17-TGM2.4VJG2EK-1

E.O. # A-6-<u>708-A</u>

# 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

VEH CLASS(ES): PC X LD	E FAMILY: CA <u>X</u> TLEV <u>X</u> LEV <u></u> UL LIFE WITH R/L <u>X</u> T1LDT2MD	49S ULEV ZEV ; IN-USE EXH STD: V1 MDV2 MDV	50S ; U.S. EP	AB965 A Tier-1 <u>NA</u> TERNATIVE
SINGLE CERT STD FOR MULTI FUEL TYPE(S): DEDICATED_ SERVICE ACCUM: STD AMA R/L TEST PROC:	<u>X</u> GASOLINE <u>X</u> ;	EMISS TEST FUEL (S	C: <u>NA</u>	PHASE 2 <u>X</u> EQUIV <u>X</u> CYCLE: <u>NA</u>
VA	<u>X</u> V6 <u>V8</u> LVES/CYLINDER: 2 <u></u> DRIVE: SYSTEM: <u>EGR, 02S.</u>	 FWD <u>X</u> RWD	HP: <u>150</u> @ 4WD-FT	6000 RPM
RLHP/DPA VALUES: <u>SECTIO</u> ENG CODE VEH MODELS (LOC) (SEE PAGE 1)	N 08.13.02.00 TRANS. EQUIV. (M5.A4 TEST ETC.) WEIGHT	IGNITION (ECM/PCM) PART_NO./CALIB	EGR SYSTEM <u>PART_NO,</u>	CATALYTIC CONVERTER PART_NO
31,31A 2NE37 2NE69 3NL37 3NL69 2NW37	A4/CUW 3250	16231851/16231613	17096100. 17096306	25160529
2NW69 31B 31C	3375	16231851/16234273 16231851/16235243		

CARLINE NAME	CARLINE CODE
PONTIAC GRAND AM	33025
OLDSMOBILE ACHIEVA	29010
BUICK SKYLARK	08055

SSUED: ML-TP095

REVISED: ML-TR024, ML-TR041, ML-TR054, ML-TP157

17-TGM2.4VJG2EK-2

### 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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R: <u>GEN</u>	ERAL MOTORS CORP.	ENGI	NE FAMILY: _	TGM2.4VJG2EK	EVAP. FAMILY:	
ENG CODE (LOC)	VEH MODELS (SEE_PAGE_1)	TRANS. (M5.A4 _ETC.)	EQUIV. TEST WEIGHT	IGNITION (ECM/PCM) PART_NO./CALIB_	EGR SYSTEM <u>PART_NO.</u>	CATALYTIC CONVERTER <u>PART_NO.</u>
32,32A	1JF37 2JB37	A4/WPR	3125	16231851/16231403	17096100. 17096306	25160527
	1JF69 2JB69 2JD37		3250			
	2JB67 1JF67		3375 3250			
32B				16231851/16234223		
320				16231851/16235203		
33,33A	1JF67 2JB67		3250 3375	16231851/16207973		
34.34A	4NJ37 4NJ69		3250 3375	16231851/16231613		25160529
<b>6</b> 3				16231851/16234273		
34C				16231851/16235243		

CARLINE NAME	CARLINE CODE
CHEVROLET CAVALIER	12060
PONTIAC SUNFIRE	33060

SUED: ML-TP095

REVISED: ML-TR024, ML-TR041, ML-TR054, ML-TP157, ML-TR109

17-TGM2.4VJG2EK-3