

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-473  
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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1990 model-year General Motors Corporation emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family: L2G2.3W8XEW6 Displacement: 2.3 Liters (139 Inches<sup>3</sup>)

Equipped with the following exhaust emission control systems:

- Oxygen Sensor
- Three-Way Catalyst
- Multipoint Electronic Fuel Injection
- On-Board Diagnostics (Exempted)

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

The following are the emission standards for this engine family:

<u>Hydrocarbons</u> <u>(Grams per Mile)</u>	<u>Carbon Monoxide</u> <u>(Grams per Mile)</u>	<u>Nitrogen Oxides</u> <u>(Grams per Mile)</u>
0.39	7.0	0.4

The following are the certification emission values for this engine family:

<u>Hydrocarbons</u> <u>(Grams per Mile)</u>	<u>Carbon Monoxide</u> <u>(Grams per Mile)</u>	<u>Nitrogen Oxides</u> <u>(Grams per Mile)</u>
0.17	1.6	0.3

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered 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" (Title 13, California Code of Regulations, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards 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" (Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Code of Regulations, Section 1968) 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 (Health and Safety Code Section 43205).

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 16<sup>th</sup> day of July, 1989.

  
K. D. Drachand, Chief  
Mobile Source Division

(FOR CARB USE ONLY)

SUPPLEMENTAL DATA AND CERTIFICATION REVIEW SHEETS

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17-L1G2.3W8XEW6-4	06-09-89	Certification Review Sheet

NOTES:

- (1) Please refer to manufacturer's HP lists (Attachment I) for correct dyno test HP settings based on model and equipment.
- (2) If two test weights are listed, the lower weight will be used for testing.
- (3) Letter derivative codes are the same as corresponding numeric codes except as indicated.

ISSUED: 06-09-89

REV. NO.:

17-L2G<sup>2</sup>.3W8XEW6-Index 1  
(1990)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
GASOLINE-FUELED PASSENGER CARS

VEHICLE MODELS:

1 J C 3 7 (EXAMPLE)

Digit 1  
Selling Division

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

Digit 2 - Body Designation

- A-Celebrity, 6000, Cutlass Ciera, Cutlass Cruiser, Century
- B-Caprice, Safari Wagon, Custom Cruiser, LeSabre/Electra Wagon, Coachbuilder Wagon
- C-Ninety-Eight, Touring, Electra, DeVille, Fleetwood, Commercial Chassis
- D-Brougham
- E-Toronado, Riviera, Eldorado, Reatta
- F-Camaro, Firebird, Trans Am
- H-Bonneville, Eighty-Eight, LeSabre
- J-Cavalier, Sunbird, Skyhawk
- K-Seville
- L-Corsica, Beretta
- N-Grand Am, Cutlass Calais, Skylark
- T-Lemans
- V-Allante
- W-Grand Prix, Regal, Cutlass Supreme, Lumina
- Y-Corvette
- Z-Commercial Chassis

Digit 3  
Trim Level

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

Digits 4 & 5 - Body Style

- |                          |                          |
|--------------------------|--------------------------|
| 07-2Dr Sport Coupe       | 57-Dr Hardtop Coupe      |
| 08-2Dr Hatchback Coupe   | 67-2Dr Convertible Coupe |
| 19-4Dr Sedan             | 68-4Dr Hatchback Sedan   |
| 27-2Dr (Notchback) Coupe | 69-4Dr (Notchback) Sedan |
| 35-4Dr Station Wagon     | 87-2Dr Hatchback Coupe   |
| 37-2Dr Hardtop Coupe     | 90-Commercial Chassis    |
| 47-2Dr Hardtop Coupe     | 97-2Dr Hardtop Coupe     |

ISSUED: 06-09-89

REV. NO.:

17-L2G2.3W8XEW6-1  
(1990)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: L2G2.3W8XEW6

PASSENGER CARS X LIGHT DUTY TRUCKS\_\_\_ MEDIUM DUTY VEHICLES\_\_\_ GAS X DIESEL\_\_\_

ENGINE TYPE: I4 LITER (CID): 2.3 (139) EVAP FAMILY: LA0-2G, LBO-2G

EMISSION CONTROL SYSTEM: 02S, TWC (MPI)

ENGINE: FRONT X MID\_\_\_ REAR\_\_\_ DRIVE: FWD X RWD\_\_\_ 4WD-FT\_\_\_ 4WD-PT\_\_\_

CERTIFICATION STANDARDS: .4 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE: A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
1,1A	3NF27	A3	3000	16125203/ ANMR	NA	25100635
	2NE27					
	4NJ27					
	3NF69		3125			
	2NE69					
	4NC69					
	4ND69					
	4NM27					
	3NT27					
	3NT69					
	2NW27					
	3NK27					
	2NW69		3250			
	3NK69					
1B				16153683/ AUXR		

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REV. NO.: 001, 002, 006

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: L2G2.3W8XEW6

PASSENGER CARS X LIGHT DUTY TRUCKS\_\_\_ MEDIUM DUTY VEHICLES\_\_\_ GAS X DIESEL\_\_\_

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CERTIFICATION STANDARDS: .4 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE: A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
2,2A	2NF27	M5	3000	16125223/ ANMT, 16144913/ ATLZ	NA	25100635
	2NE27					
	2NW27		3125			
	2NE69					
	2NW69					
	3NK27					
3NK69						
3,3A	1LZ37			16124363/ ANFW, 16144893/ ATLX		25128724
5	3WH47		3500	16129103/ ANXK		25101776
	3WH69					
	3WS47					
	3WR47					
	3WS69	3625				
3WR69						
5A,5B				16147083/ ATUL		
5C				16148233/ ATYU		

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REV. NO.: 001, 002, 003, 004, 005

17-L2G2.3W8XEW6-3  
(1990)