

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-590  
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 General Motors Corporation 1993 model-year exhaust emission control systems are certified as described below for light-duty trucks:

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

Fuel Type: Gasoline

Engine Family: P3G3.8X8XE24 Displacement: 3.8 Liters (231 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

- Three Way Catalytic Converter
- Exhaust Gas Recirculation
- Heated Oxygen Sensor
- 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:

Loaded Vehicle Weight (pounds)	Miles	Non-Methane Organic Gases	Carbon Monoxide	Nitrogen Oxides	Formaldehyde
3751-5750	50,000	0.160	4.4	0.7	0.018
	100,000	0.200	5.5	0.9	0.023

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

Loaded Vehicle Weight (pounds)	Miles	Non-Methane Organic Gases	Carbon Monoxide	Nitrogen Oxides	Formaldehyde
3751-5750	50,000	0.117	1.7	0.3	0.003
	100,000	0.129	1.8	0.4	0.003

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, 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 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."

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 listed vehicle models also comply with 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 (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the TLEV hydrocarbon exhaust emission standard to which the listed vehicles are certified is at least twice as stringent as otherwise applicable to gasoline vehicles of the same year and class, and the listed vehicles therefore meet the definition of "low-emission motor vehicle" set forth in Health and Safety Code Sections 39037.05 and 43800.

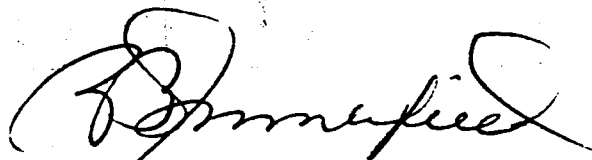
BE IT FURTHER RESOLVED: That the listed vehicle models shall be clearly labeled as "low-emission motor vehicles" as defined in Health and Safety Code Sections 39037.05 and 43800, and such labeling shall meet the requirements of Health and Safety Code Section 43802(a) at the time of sale.

BE IT FURTHER RESOLVED: That the listed vehicle models are certified as TLEVs at the request of General Motors Corporation based on the assumption that the "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles" will be amended following a hearing scheduled for August 1992 to allow the certification of 1993 model TLEVs on a Phase 2 certification gasoline having specifications substantially similar to the specifications of the gasoline used to certify the listed vehicle models. The certification of the listed vehicle models as TLEVs is **CONDITIONAL** on such amendments being approved by the Board by September 30, 1992, and becoming effective by August 1, 1993. If such amendments are not approved by the Board by September 30, 1992, or do not become effective by August 1, 1993, the listed vehicle models shall be deemed certified to the phase-in standards for light-duty trucks of 3751-5750 pound loaded vehicle weight as set forth in section 1960.1(f)(1) of the Title 13, California Code of Regulations (For 50,000 miles: 0.32 g/mi non-methane hydrocarbons or NMHC, 4.4 g/mi carbon monoxide or CO, and 1.0 g/mi oxides of nitrogen. For 100,000 miles: 0.40 g/mi NMHC and 5.5 g/mi CO.)

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 23<sup>rd</sup> day of June, 1992.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

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
- 8 - Saturn

Digit 2 - Body Designation

- A - Cutlass Ciera, Cutlass Cruiser, Century, Century Wagon
- B - Caprice, Roadmaster Wagon, Coachbuilder Wagon, Roadmaster, Caprice Wagon
- C - Ninety-Eight, Park Avenue, DeVille, Sixty Special, Commercial Chassis, Coachbuilder Special
- D - Fleetwood, Limousine, Funeral Coach/Hearse
- E - Toronado, Riviera, Eldorado, Trofeo
- F - Camaro, Firebird, Trans Am
- H - Bonneville, Eighty-Eight, LeSabre
- J - Cavalier, Sunbird, Cavalier Wagon
- K - Seville
- L - Corsica, Beretta
- N - Grand Am, Achieva, Skylark
- T - Lemans
- V - Allante
- W - Grand Prix, Regal, Cutlass Supreme, Lumina
- Y - Corvette
- Z - Saturn

Digit 3 - Trim Level

B, C, D, E, F, G, 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 - 2Dr 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: 05-26-92  
(ML-PP343)

REVISED:

17-P3G3.8X8XE24-1  
(1993)

1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: P3G3.8X8XE24  
 PASSENGER CARS\_\_\_ LIGHT DUTY TRUCKS\_X (T2) MEDIUM DUTY VEHICLES\_\_\_  
 FUEL TYPE: PHASE II STANDARDS TYPE: TLEV VEHICLE TYPE: NA  
 ENGINE CONFIG: V6 LITER (CID): 3.8 (231) EVAP FAMILY: PBO-3J  
 ENGINE: FRONT\_X MID\_\_\_ REAR\_\_\_ DRIVE: FWD\_X RWD\_\_\_ 4WD-FT\_\_\_ 4WD-PT\_\_\_  
 EMISSION CONTROL SYSTEM & SPECIAL FEATURES: TWC, EGR, HO2S, SFI  
 DPA: SECTION 08.13.02.00

ENG CODE	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECM/PCM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
21	1UM06 2UM06 3UM06	A4	4250	16181074 (BCAU) 16187564 (BDPC) 16191804 (BFJY)	17091147	25143534

ISSUED: 05-26-92  
(ML-PP343)

REVISED: ML-PR094, PR128

17-P3G3.8X8XE24-2  
(1993)