

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-489
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: L2G3.8W8XEB7 Displacement: 3.8 Liters (231 Inches³)

Equipped with the following exhaust emission control systems:

- Exhaust Gas Recirculation
- Oxygen Sensor
- Three-Way Catalyst
- Sequential 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>
0.41	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>
0.11	1.6	0.2

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 26th day of May, 1989.



K. D. Drachand, Chief
Mobile Source Division

(FOR CARB USE ONLY)

SUPPLEMENTAL DATA AND CERTIFICATION REVIEW SHEETS

<u>Section and Page No.</u>	<u>Rev. No. or Date</u>	<u>Item</u>
17-L2G3.8W8XEB7-Index 1	002	Table of Contents
17-L2G3.8W8XEB7-1	04-07-89	Supplemental Data Sheet
17-L2G3.8W8XEB7-2	002	Supplemental Data Sheet
17-L2G3.8W8XEB7-3	002	Supplemental Data Sheet
17-L2G3.8W8XEB7-4	002	Supplemental Data Sheet
17-L2G3.8W8XEB7-5	04-07-89	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: 04-07-89

REV. NO.: 001 (RC L2-033)
002 (RC L2-045)

17-L2G3.8W8XEB7-Index 1
(1990)

(FOR CARB USE ONLY)

E.O. # A-6-489

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: 04-07-89

REV. NO.:

17-L2G3.8W8XE87-1
(1990)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: L2G3.8W8XEB7

PASSENGER CARS X LIGHT DUTY TRUCKS___ MEDIUM DUTY VEHICLES___ GAS X DIESEL___

ENGINE TYPE: V6 LITER (CID): 3.8 (231) EVAP FAMILY: LBO-2E

EMISSION CONTROL SYSTEM: EGR/TWC/O2S (SMPI)

ENGINE: FRONT X MID___ REAR___ DRIVE: FWD X RWD___ 4WD-FT___ 4WD-PT___

CERTIFICATION STANDARDS: NOx - .4 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.
11	4CU69 3CW69 3CX69 4CW69 4CX69 3HN69 3HY69 3HY37 4HP69 4HP37 4HR69 4HR37 2HX69 3HN37	A4	3750 3625	16132154/ APTH	17089099, 17090077	25100635
11A				16141024/ ASSL		
11B				16147994/ ATXY		

ISSUED: 04-07-89

REV. NO.: 001, 002, 003

17-L2G3.8W8XEB7-2
(1990)

(FOR CARB USE ONLY)

E.O. # A-6-489

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: L2G3.8W8XEB7

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

ENGINE TYPE: V6 LITER (CID): 3.8 (231) EVAP FAMILY: LB0-2E

EMISSION CONTROL SYSTEM: EGR/TWC/O2S (SMPI)

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

CERTIFICATION STANDARDS: NOx - .4 DPA: SEE ATTACHMENT I

<u>ENG CODE</u>	<u>VEH MODELS (SEE PAGE 1A)</u>	<u>TRANS TYPE: A-AUTO M-MAN</u>	<u>EQUIV TEST WEIGHT</u>	<u>IGN SYSTEM (ECU/PROM) PART NO.</u>	<u>EGR SYSTEM PART NO.</u>	<u>CATALYST PART NO.</u>
12	3CV69 4CU69 4CF69 3CW69 3CX69 4CW69 2HZ69 4CX69 3HN69 3HY69 3HY37 4HP69 4HP37 4HR37 4HR69 2HX69 3HN37	A4	3875 3750 3625	16132174/ APTK	17089099, 17090077	25100635
12A				16141044/ ASSN		
12B				16148014/ ATYA		

ISSUED: 04-07-89

REV. NO.: 001, 002, 003

17-L2G3.8W8XEB7-3
(1990)

(FOR CARB USE ONLY)

E.O. # A-6-489

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: L2G3.8W8XEB7

PASSENGER CARS X LIGHT DUTY TRUCKS___ MEDIUM DUTY VEHICLES___ GAS X DIESEL___

ENGINE TYPE: V6 LITER (CID): 3.8 (231) EVAP FAMILY: LBO-2E

EMISSION CONTROL SYSTEM: EGR/TWC/O2S (SMPI)

ENGINE: FRONT X MID___ REAR___ DRIVE: FWD X RWD___ 4WD-FT___ 4WD-PT___

CERTIFICATION STANDARDS: NOx - .4 DPA: SEE ATTACHMENT I

<u>ENG CODE</u>	<u>VEH MODELS (SEE PAGE 1A)</u>	<u>TRANS TYPE: A-AUTO M-MAN</u>	<u>EQUIV TEST WEIGHT</u>	<u>IGN SYSTEM (ECU/PROM) PART NO.</u>	<u>EGR SYSTEM PART NO.</u>	<u>CATALYST PART NO.</u>
13	2HY69	A4	3875	16130864/ APJS	17089099, 17090077	25100635
13A				16141064/ ASSR		
13B				16148034/ ATYC		
14	3EZ57		3750	16129034/ ANWT		
14B				16148054/ ATYF		
15	3EZ57 4EZ57 4EC97 3EV57 4EC67		3875	16129054/ ANWW, 16138834/ ASBM *1		
15B				16148074/ ATYJ, 16147984/ ATXX *2		

*1 ECM P/N 16138834 is for Buick Riviera only.

*2 ECM P/N 16147984 is for Buick Riviera only.

ISSUED: 04-07-89

REV. NO.: 001, 002, 003

17-L2G3.8W8XEB7-4
(1990)