# 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 Inches<sup>3</sup>)

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:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)	
0.41	7.0	0.4	

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

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)	
0.11	1.6	N 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 26 day of May, 1989.

K. D. Drachand, Chief Mobile Source Division

### (FOR CARB USE ONLY)

## SUPPLEMENTAL DATA AND CERTIFICATION REVIEW SHEETS

Section and Page No.	Rev. No. <u>or Date</u>	Item
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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)

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

### VEHICLE MODELS:

## <u>1 J C 3 7</u> (EXAMPLE)

Digit 1 Selling Division		Body Designation
1-Chevrolet 2-Pontiac 3-Oldsmobile 4-Buick 6-Cadillac  D-Brougham E-Toronado, Riviera, Eldorado, Reat 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 Suprem Y-Corvette Z-Commercial Chassis		om fruiser, LeSabre/Electra Wagon, cra, DeVille, Fleetwood, Commercial, ReattaeSabre
Digit 3 <u>Irim Level</u>	Digits 4 &	5 - Body Style
B, C, D, E, F, H, J, K, M, N, L, P, R, S, T, U, V, W, X, Y, Z	07-2Dr Sport Coupe 08-2Dr Hatchback Coupe 19-4Dr Sedan 27-2Dr (Notchback) Coupe 35-4Dr Station Wagon 37-2Dr Hardtop Coupe 47-2Dr Hardtop Coupe	57-Dr Hardtop Coupe 67-2Dr Convertible Coupe 68-4Dr Hatchback Sedan 69-4Dr (Notchback) Sedan 87-2Dr Hatchback Coupe 90-Commercial Chassis 97-2Dr Hardtop Coupe

ISSUED: 04-07-89

REV. NO.:

### 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/02S (SMPI) ENGINE: FRONT X MID REAR\_\_\_ DRIVE: FWD\_X RWD\_\_\_ 4WD-FT\_\_\_ 4WD-PT\_\_\_ CERTIFICATION STANDARDS: NOx - .4 DPA: SEE ATTACHMENT I TRANS TYPE: EOUIV IGN SYSTEM EGR ENG VEH MODELS A-AUTO TEST (ECU/PROM) SYSTEM CATALYST CODE (SEE PAGE 1A) M-MAN WEIGHT PART NO. PART NO. PART NO. 11 4CU69 A4 3750 16132154/ 17089099, 25100635 3CW69 APTH 17090077 3CX69 4CW69 4CX69 3625 3HN69 3HY69 3HY37 **4HP69 4HP37** 4HR69 4HR37 2HX69 3HN37 11A 16141024/ **ASSL** 

> 16147994/ ATXY

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11B

REV. NO.: 001, 002, 003

17-L2G3.8W8XEB7-2 (1990)

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## 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 <u>M-MAN</u>	EQUIV TEST <u>WEIGHT</u>	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM <u>PART NO.</u>	CATALYST PART NO.
12	3CV69 4CU69 4CF69 3CW69 3CX69 4CW69	<b>A4</b>	3875 3750	16132174/ APTK	17089099, 17090077	25100635
	2HZ69 4CX69 3HN69 3HY69 3HY37 4HP69 4HP37 4HR37 4HR69 2HX69 3HN37		3625			

12A

16141044/ ASSN

12B

16148014/ ATYA

ISSUED: 04-07-89

REV. NO.: 001, 002, 003

### AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFAC'	TURER: GENERAL MO	TORS CORPORATI	ON	ENGINE FAM	ILY: L2G3.8	W8XEB7
PASSENG	ER CARS <u>X</u> LIGHT	DUTY TRUCKS	_ MEDIU	M DUTY VEHICLES	GAS_X	DIESEL
ENGINE	TYPE: V6 L	ITER (CID): 3	.8 (231)	EVAP FAM	ILY: LBO-2E	
EMISSIO	N CONTROL SYSTEM:	EGR/TWC/02S (	SMPI)			
ENGINE:	FRONT_X_ MID	REAR	DRIVE:	FWD_XRWD	4WD-FT	4WD-PT
CERTIFI	CATION STANDARDS:	NOx4		DPA: SEE ATTA	CHMENT 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.
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		
158				16148074/ ATYJ, 16147984/ ATXX *2		

<sup>\*1</sup> 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

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17-L2G3.8W8XEB7-4 (1990)