State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-511 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 1991 model-year General Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family: M2G3.8W8XEB8 Displacement: 3.8 Liters (231 Cu. In.)

Exhaust Emission Control Systems (Special Features):

Three-Way Catalyst Oxygen Sensor Exhaust Gas Recirculation Sequential Multipoint Electronic Fuel Injection

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)
0.17	5.2	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 also comply 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 (California 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 day of March

K. Ø. Drachand, Chief Mobile Source Division

(FOR CARB USE ONLY)

16.03.00.00

EXECUTIVE ORDER INFORMATION

ENGINE FAMILY..... M2G3.8W8XEB8

EVAPORATIVE FAMILY.... MBOP-2E

CARLINES TO BE COVERED:

CARLINE NAME

LESABRE

DELTA 88 ROYALE

BONNEVILLE

CARLINE CODE

29025

33045

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET GASOLINE-FUELED PASSENGER CARS

VEHICLE MODELS:

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

Digit 1 - Selling Division

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

Digit 2 - Body Designation

- A 6000, Cutlass Ciera, Cutlass Cruiser, Century
- B Caprice, Custom Cruiser, Roadmaster Wagon, Coachbuilder Wagon
- C Ninety-Eight, Touring, Park Avenue, DeVille, Fleetwood, Commercial Chassis
- D Brougham
- E Toronado, Riviera, Eldorado, Reatta, Trofeo
- F Camaro, Firebird, Trans Am
- H Bonneville, Eighty-Eight, LeSabre
- J Cavalier, Sunbird
- 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 Saturn Coupe/Sedan

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 - Commericial Chassis
47 - 2Dr Hardtop Coupe	97 - 2Dr Hardtop Coupe

ISSUED: 03-08-90 REV. NO.:

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

1ANUFAC	TURER: GENERAL M	OTORS CORPORA	TION	ENGIN	E FAMILY: M	2 G3.8W 8XEB8
PASSENG	ER CARS <u>X</u> LIG	HT DUTY TRUCK	S MEDI	UM DUTY VEHICLE	S GAS_X	DIESEL
ENGINE	TYPE: V6	LITER (CII	D): 3.8 (23)	1) E	VAP FAMILY:	MBOP-2E
EMISSIO	N CONTROL SYSTEM:	EGR/TWC/02S	(SMPI)			
ENGINE:	FRONT X MID_	REAR	DRIVE:	FWD <u>X</u> RWD	_ 4WD-FT	4WD-PT
CERTIFIC	CATION STANDARDS:	NOx4		DPA:	SEE ATTACHME	ENT I
ENG CODE	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV TEST <u>WEIGHT</u>	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
11	2HX69 3HN37 3HN69 3HY37 3HY69 4HP37 4HP69 4HR37 4HR69	A4	3625	16147994/ R027994	17090077, 17091144	25100635
-11A				16155654/ R105654		
12	2HZ69 3HN37 3HN69 3HY37 3HY69 4HP37 4HP69 4HR37 4HR69		3750 3625	16148014/ R028014		
12A				16155664/ R105664		
13	2 HY69		3875	16148034/ R028034	17089099, 17090077, 17091144	
13A				16155694/ R105694		
ISSUED:	03-08-90	REV. NO.:	001, 002			

17-M2G3.8W8XEB8-2 (1991)

ATTACHMENT I

TEST HORSEPOWER VALUES

Body Style	Test Weight Classes	50mph Road Load Hp	without.AC Coast Dyno Down Hp Time	.withAC. Coast Dyno Down Hp Time	CD, CA or FA
**** H BODY (FWD) ****			·		
OLDSMOBILE DELTA 88 (3H_37,3H_6 BUICK LESABRE (4H_37,4H_69)	59)				
w/P205/75R14 ALS w/P205/70R15 ALS w/P215/65R15 AL3		12.58 12.39 14.04	6.6 17.75 6.5 18.02 6.4 15.96	7.3 16.89 7.1 17.13 7.0 15.27	CA CA
PONTIAC BONNEVILLE LE (2HX69)					
w/P205/75R14 ALS w/P215/65R15 AL2 w/P215/65R15 AL2 w/P215/60R16 AL3 w/P215/60R16 AL3	0-3625 3750 Only 0-3625 3750 Only 0-3625	13.18 14.36		7.8 16.62 6.9 16.55 6.9 16.15 6.5 15.41 6.5 15.05	CA CA CA CA
PONTIAC BONNEVILLE SE (2HZ69)				·	
W/P215/60R16 AL3 W/P215/60R16 AL3	3750 Only 0-3625	14.36 14.21	5.8 16.07 5.8 15.70	6.5 15.41 6.5 15.05	CA CA
PONTIAC BONNEVILLE SSE (2HY69)					
W/P215/60R16 AL3 W/P215/60R16 AL3	3875 Only 0-3750	14.90 14.86	5.9 16.07 5.9 15.61	6.5 15.49 6.5 14.89	CA CA

ISSUED: 15AUG89 REV. NO.: 001 08.13.02.00-10 (1991)