State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-517
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: M4G1.9V8JPD1 Displacement: 1.9 Liters (116 Cu. In.)

Exhaust Emission Control Systems (Special Features):

Three-Way Catalyst
Oxygen Sensor
Exhaust Gas Recirculation
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 (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0.39	7.0	0.4

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

Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0.23	2.1	0.4

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 5th day of April, 1990.

Bob Grace for

K. D. Drachand, Chief
Mobile Source Division

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16.03.00.00

EXECUTIVE ORDER INFORMATION

ENGINE FAMILY..... M4G1.9V8JPD1

EVAPORATIVE FAMILY..... MAO-4A

CARLINES TO BE COVERED:

CARLINE NAME	CARLINE CODE
SATURN COUPE	37310
SATURN SEDAN	37320

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E.O. # A-6-517

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-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-Saturn

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
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: 01-09-90 REV. NO.:

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E.O. # A-6-517

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: M4G1.9V8JPD1

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

ENGINE TYPE: L4 LITER (CID): 1.9 (116) EVAP FAMILY: MAO-4A

EMISSION CONTROL SYSTEM: EGR, O2S, TWC, MPI

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

CERTIFICATION STANDARDS: .39 HC, .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.	TLC
1	8ZB27 8ZD69	A4	2750	21020693/ ECM 0298 TCM 0299	21000505	25128076 (MS 9307)	19V8JPDU
2	8ZB27 8ZD69						
3	8ZB27 8ZD69	M5		21020692/ 9872			
4	8ZB27 8ZD69						
1A	8ZB27 8ZD69	A4		21020758/ ECM 0298 TCM 2654			
2A	8ZB27 8ZD69						

ISSUED: 01-09-90 REV. NO.: 001

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E.O. # A-6-517

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: M4G1.9V8JPD1

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

ENGINE TYPE: L4 LITER (CID): 1.9 (116) EVAP FAMILY: MAO-4A

EMISSION CONTROL SYSTEM: EGR, O2S, TWC, MPI

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

CERTIFICATION STANDARDS: .39 HC, .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.	TLC
1B	8Zh27 8ZK69	A4	2750	21020817/ ECM 5127 TCM 6072	21000505	25128076 (MS 9307)	19V8JPDU
2B	8ZH27 8ZK69						
3B	8ZG27 8ZJ69	M5		21020804/ 5134			
4B	8ZG27 8ZJ69						
1C	8ZH27 8ZK69	A4		21020821/ ECM 7301 TCM 7307			
2C	8ZH27 8ZK69						
3C	8ZG27 8ZJ69	M5		21020820/ 7305			
4C	8ZG27 8ZJ69						

ISSUED: 002 REV. NO.: 003

(FOR CARB USE ONLY)

E.O. # A-6-517

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: M4G1.9V8JPD1

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

ENGINE TYPE: L4 LITER (CID): 1.9 (116) EVAP FAMILY: MAO-4A

EMISSION CONTROL SYSTEM: EGR, O2S, TWC, MPI

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

CERTIFICATION STANDARDS: .39 HC, .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.	TLC
1D	8ZH27 8ZK69	A4	2750	21021191/ ECM 0298 TCM 0246	21000505	25128076 (MS 9307)	19V8JPDU
2D	8ZH27 8ZK69						
3D	8ZG27 8ZJ69	M5		21021192/ 0337			
4D	8ZG27 8ZJ69						
1E	8ZH27 8ZK69	A4		21021215/ ECM 1289 TCM 0246			
2E	8ZH27 8ZK69						
1F	8ZH27 8ZK69			21021218/ ECM 1289 TCM 1578			
2F	8ZH27 8ZK69						

ISSUED: 004 REV. NO.: 005, 006

TEST HORSEPOWER VALUES

Body Style	Test Weight Classes	50mph Road Load Hp	without AC Dyno Hp	without AC Coast Down Time	with AC Dyno Hp	with AC Coast Down Time	CD, CA or FA
***** SATURN BODY (FWD) *****							
SATURN 2+2 COUPE (8ZB27)							
w/auto trans & P195/60R15 AL3	0-2750	11.80	5.5	14.38	6.0	13.74	CA
w/man. trans & P195/60R15 AL3	0-2750	11.30	6.4	14.98	7.0	14.32	CA
SATURN SEDAN (8ZB69) (MODEL I)							
w/auto trans & P175/70R14 ALS	0-2750	10.70	5.8	15.79	6.4	14.98	CD
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SATURN SEDAN (8ZD69) (MODEL II)							
w/auto trans & P195/60R15 AL3	0-2875	11.80	5.5	15.01	6.0	14.35	CA
w/man. trans & P195/60R15 AL3	0-2750	11.30	6.4	14.98	7.0	14.32	CA