

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-499  
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: M1G5.7V5XEA1 Displacement: 5.0 Liters (305 Cu. In.)

Exhaust Emission Control Systems (Special Features):

- Three-Way Catalyst
- Oxygen Sensor
- Secondary Air Injection
- Exhaust Gas Recirculation
- Throttle Body Electronic Fuel Injection
- On-Board Diagnostics

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><br><u>(Grams per Mile)</u> | <u>Carbon Monoxide</u><br><u>(Grams per Mile)</u> | <u>Nitrogen Oxides</u><br><u>(Grams per Mile)</u> |
|--|---|---|
| 0.39   | 7.0   | 0.4   |

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

| <u>Hydrocarbons</u><br><u>(Grams per Mile)</u> | <u>Carbon Monoxide</u><br><u>(Grams per Mile)</u> | <u>Nitrogen Oxides</u><br><u>(Grams per Mile)</u> |
|--|---|---|
| 0.20   | 2.7   | 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.

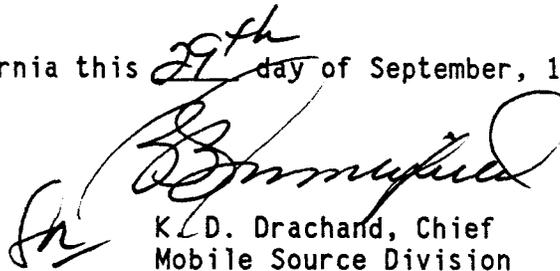
BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

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 <sup>29<sup>th</sup></sup> day of September, 1989.

  
K.L.D. Drachard, Chief  
Mobile Source Division

(FOR CARB USE ONLY)

16.03.00.00

EXECUTIVE ORDER INFORMATION

ENGINE FAMILY..... M1G5.7V5XE1

EVAPORATIVE FAMILY..... MBO-1P

CARLINES TO BE COVERED:

| CARLINE NAME          | CARLINE CODE |
|-----------------------|--------------|
| LESABRE/ELECTRA WAGON | 08035        |
| CAPRICE               | 12040        |
| CAPRICE WAGON         | 12045        |
| CUSTOM CRUISER WAGON  | 29030        |
| COACHBUILDER WAGON    | 78010        |

ISSUED:

16-M1G5.7V5XE1-2

(FOR CARB USE ONLY)

E.O. # A-6-499

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
GASOLINE-FUELED PASSENGER CARS

VEHICLE MODELS:

1 J C 3 7 (EXAMPLE)

Digit 1  
Selling Division

Digit 2 - Body Designation

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

- 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

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       | 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: 07-10-89

REV. NO.:

17-M1G5.7V5XE1-1  
(1991)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: M1G5.7V5XE1

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

ENGINE TYPE: V8 LITER (CID): 5.0 (305) EVAP FAMILY: M80-1P

EMISSION CONTROL SYSTEM: AIR-EGR-TWC-02S (TBI)

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

CERTIFICATION STANDARDS: 0.4 NOx 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> |
|-----------------|----------------------------------|---------------------------------|--------------------------|---------------------------------------|----------------------------|--------------------------|
| 51,51A          | 1BL19<br>1BN19                   | A4                              | 4250                     | 16139531/<br>ASFA                     | 17090156                   | 25128067                 |
| 51B             |                                  |                                 |                          | 16155001/<br>AWFF                     |                            |                          |
| 51C             |                                  |                                 |                          | 16159961/<br>AXCZ                     |                            |                          |
| 51D             |                                  |                                 |                          | 16165951/<br>AYMK                     |                            |                          |
| 56              | 1BL35<br>3BP35<br>4BB90<br>4BR35 |                                 | 4750                     | 16139561/<br>ASFD                     |                            |                          |
| 57              | 1BL35<br>3BP35<br>4BB90<br>4BR35 |                                 |                          | 16159921/<br>AXCU                     |                            |                          |
| 57A             |                                  |                                 |                          | 16165941/<br>AYMJ                     |                            |                          |

ISSUED: 07-10-89

REV. NO.: 003, 004, 005

17-M1G5.7V5XE1-2  
(1991)

ATTACHMENT I

TEST HORSEPOWER VALUES

| Body Style | Test Weight Classes | 50mph Road Load Hp | without.AC Coast Dyno Hp | .with..AC. Coast Dyno Hp | CD, CA or FA |
|------------|---------------------|--------------------|--------------------------|--------------------------|--------------|
|------------|---------------------|--------------------|--------------------------|--------------------------|--------------|

\*\*\*\*\* A BODY (FWD & AWD) (continued) \*\*\*\*\*

CHEVROLET CELEBRITY WAGON (1AW35) without RPO C51 (rear air deflector)  
 PONTIAC 6000 WAGON (2A\_35) without RPO C51 (rear air deflector)  
 OLDSMOBILE CUTLASS CRUISER (3A\_35) without RPO C51 (rear air deflector)  
 BUICK CENTURY WAGON (4A\_35) without RPO C51 (rear air deflector)

|                             |           |       |           |           |    |
|-----------------------------|-----------|-------|-----------|-----------|----|
| man. trans & P195/70R14 ALS | 3375-3500 | 11.82 | 6.7 18.28 | 7.4 17.29 | CA |
| man. trans & P195/70R14 ALS | 0-3250    | 11.56 | 6.7 17.38 | 7.4 16.42 | CA |
| auto trans & P195/70R14 AL3 | 3375-3500 | 13.26 | 5.6 16.29 | 6.1 15.63 | CA |
| auto trans & P195/70R14 AL3 | 0-3250    | 12.95 | 5.6 15.51 | 6.1 14.87 | CA |
| man. trans & P195/70R14 AL3 | 3375-3500 | 12.76 | 5.6 16.93 | 6.1 16.21 | CA |
| man. trans & P195/70R14 AL3 | 0-3250    | 12.45 | 5.6 16.14 | 6.1 15.45 | CA |
| auto trans & P215/60R14 AL3 | 3375-3500 | 13.26 | 5.6 16.29 | 6.1 15.63 | CA |
| auto trans & P215/60R14 AL3 | 0-3250    | 12.95 | 5.6 15.51 | 6.1 14.87 | CA |
| man. trans & P215/60R14 AL3 | 3375-3500 | 12.76 | 5.6 16.93 | 6.1 16.21 | CA |
| man. trans & P215/60R14 AL3 | 0-3250    | 12.45 | 5.6 16.14 | 6.1 15.45 | CA |
| auto trans & P195/70R15 AL3 | 3375-3500 | 13.27 | 6.1 16.28 | 6.8 15.56 | CA |
| auto trans & P195/70R15 AL3 | 0-3250    | 12.96 | 6.1 15.51 | 6.8 14.81 | CA |
| man. trans & P195/70R15 AL3 | 3375-3500 | 12.77 | 6.1 16.92 | 6.8 16.14 | CA |
| man. trans & P195/70R15 AL3 | 0-3250    | 12.46 | 6.1 16.13 | 6.8 15.38 | CA |

\*\*\*\*\* B BODY (RWD) \*\*\*\*\*

CHEVROLET CAPRICE (1B\_69) without SEO 9C1 (police package)

|                                |        |       |           |           |    |
|--------------------------------|--------|-------|-----------|-----------|----|
| w/(P205, P215 or P225)/75R15s  | 0-4250 | 13.59 | 8.8 19.29 | 9.7 18.10 | CD |
| w/o police pkg & w/P225/70R15s | 0-4250 | 15.38 | 8.9 16.99 | 9.8 16.03 | CA |

CHEVROLET CAPRICE (1B\_69) with SEO 9C1 (police package)

|                                   |        |       |           |            |    |
|-----------------------------------|--------|-------|-----------|------------|----|
| w/GDY (SEO R4Y) & P225/70HR15 HWY | 0-4250 | 15.97 | 8.8 16.42 | 9.7 15.23  | CA |
| w/GDY (SEO R4Y) & P225/70HR15 AL3 | 0-4250 | 14.86 | 7.3 17.64 | 8.0 16.85  | CA |
| w/GEN (SEO R4Z) & P225/70HR15 AL3 | 0-4250 | 16.03 | 9.2 16.31 | 10.1 15.42 | CA |

CHEVROLET CAPRICE WAGON (1B\_35) without SEO 9C1 (police package)  
 PONTIAC SAFARI WAGON (2B\_35) without SEO 9C1 (police package)

|                  |        |       |           |           |    |
|------------------|--------|-------|-----------|-----------|----|
| w/P225/75R15 ALS | 0-4500 | 14.13 | 8.7 19.73 | 9.6 18.58 | CD |
|------------------|--------|-------|-----------|-----------|----|

ATTACHMENT I (CONT.)

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Case No.'s: R6BW1003  
D6BW1003

Letter No. ML-MA006  
Vehicle No. 4B368

GENERAL MOTORS ALTERNATE HORSEPOWER APPLICATION

The test vehicle used to determine an alternate dynamometer power absorber unit setting is described on the opposite page and is representative of General Motors' design intent of the following 1991 model year vehicles:

Carline (model):

CHEVROLET CAPRICE WAGON (1BN35) with SEO 9C1 (Police Package)  
PONTIAC SAFARI WAGON (2BL35) with SEO 9C1 (Police Package)

| Requested Coverage              | Test Weight Classes | 50 mph Roadload Hp | without AC     |                 | with AC        |                 |
|---------------------------------|---------------------|--------------------|----------------|-----------------|----------------|-----------------|
|                                 |                     |                    | Actual Dyno Hp | Coast Down Time | Actual Dyno Hp | Coast Down Time |
| w/GDY (SEO R4Y) P225/70HR15 AL3 | 4750 Only           | 16.07              | 8.0            | 18.19           | 8.8            | 17.33           |
| w/GEN (SEO R4Z) P225/70HR15 AL3 | 0-4750              | 17.52              | 8.6            | 16.69           | 9.5            | 15.91           |

Carline (model):

CHEVROLET CAPRICE WAGON (1BN35) without SEO 9C1 (Police Package)  
PONTIAC SAFARI WAGON (2BL35) without SEO 9C1 (Police Package)

|                  |           |       |     |       |     |       |
|------------------|-----------|-------|-----|-------|-----|-------|
| w/P225/75R15 ALS | 4750 Only | 14.50 | 8.9 | 20.17 | 9.8 | 19.00 |
|------------------|-----------|-------|-----|-------|-----|-------|

GM Representative

*Roger V. Leonard*

Date

*12 July 89*