

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER P-6-33  
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 federally-certified emission control systems are certified for sale in California as described below for gasoline-powered-passenger cars:

Engine Family: L2G4.5V8X2W1 Displacement: -4.5 Liters (273 Inches<sup>3</sup>)

Equipped with the following exhaust emission control systems:

- Oxygen Sensor
- Three-Way Catalyst
- 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:

| <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> |
|--|---|---|
| 0.41   | 3.4   | 1.0   |

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> |
|--|---|---|
| 0.13   | 1.5   | 0.6   |

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 "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the Executive Officer has been provided evidence of federal certification of vehicle models listed in the attachments which are not available as California-certified models.

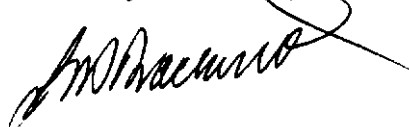
BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate that the vehicle manufacturer has sufficient emissions credits for its estimated California sales of federally-certified 1990 model-year vehicles using the "Guidelines for Certification of 1983 and Subsequent Model-Year Federally Certified Light-Duty Motor Vehicles For Sale in California" (Title 13, California Code of Regulations, Section 1960.5).

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 regulations (Title 13, California Code of Regulations, Section 2035 and 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 18 day of March, 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.<br/>or Date</u> | <u>Item</u>                |
|-----------------------------|-----------------------------|----------------------------|
| 17-L2G4.5V8X2W1-Index 1A    | 003                         | Table of Contents          |
| 17-L2G4.5V8X2W1-1A          | 12-12-88                    | Supplemental Data Sheet    |
| 17-L2G4.5V8X2W1-2A          | 003                         | Supplemental Data Sheet    |
| 17-L2G4.5V8X2W1-3A          | 12-12-88                    | 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: 12-12-88

REV. NO.: 001 (RC L2-006)  
002 (RC L2-035)  
003 (RC L2-036)

17-L2G4.5V8X2W1-Index 1A  
(1990)

(FOR CARB USE ONLY)

E.O. # P-6-33

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: 12-12-88

REV. NO.:

17-L2G4.5V8X2W1-1A  
(1990)

(FOR CARB USE ONLY)

E.O. # P-6-33

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: L2G4.5V8X2W1

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

ENGINE TYPE: V8 LITER (CID): 4.5 (273) EVAP FAMILY: LB0-2A

EMISSION CONTROL SYSTEM: TWC, O2S, (SMPI)

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

CERTIFICATION STANDARDS: NOx - 1.0 (AB965) 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> |
|-----------------|---------------------------------|---------------------------------|--------------------------|---------------------------------------|----------------------------|--------------------------|
| 1               | 6VR67                           | A4                              | 3875                     | 16131366/<br>3031                     | NA                         | 25104722                 |
| 1A              |                                 |                                 |                          | 16131366/<br>2006                     |                            |                          |
| 1B              |                                 |                                 |                          | 16131366/<br>2008                     |                            |                          |
| 1C              | 6VS67<br>6VR67                  |                                 | 3750<br>3875             | 16131366/<br>2010                     |                            |                          |
| 1D              |                                 |                                 |                          | 16151466/<br>AUNX                     |                            |                          |

ISSUED: 12-12-88

REV. NO.: 001, 002, 003, 004, 005

17-L2G4.5V8X2W1-2A  
(1990)

17-X2W1

ATTACHMENT I

TEST HORSEPOWER VALUES

| Body Style                           | Test Weight Classes | 50mph Road Load Hp | without.AC Coast Dyno Down Hp Time | .with..AC. Coast Dyno Down Hp Time | CD, CA or FA |
|--------------------------------------|---------------------|--------------------|------------------------------------|------------------------------------|--------------|
| ***** N BODY (FWD) (continued) ***** |                     |                    |                                    |                                    |              |
| PONTIAC GRAND AM (2NE27,2NE69)       |                     |                    |                                    |                                    |              |
| OLDSMOBILE CALAIS (3N_27,3N_69)      |                     |                    |                                    |                                    |              |
| BUICK SKYLARK (4N_27,4N_69)          |                     |                    |                                    |                                    |              |
| w/man. trans & P215/60R14 AL3        | 0-3125              | 11.77              | 5.5 16.44                          | 6.0 15.80                          | CA           |
| w/auto trans & P215/60R14 AL3        | 3250 Only           | 12.34              | 5.5 16.17                          | 6.0 15.60                          | CA           |
| w/auto trans & P215/60R14 AL3        | 0-3125              | 12.27              | 5.5 15.77                          | 6.0 15.18                          | CA           |
| w/man. trans & P205/55R16 AL3        | 0-3250              | 11.86              | 5.4 16.83                          | 5.9 16.18                          | CA           |
| w/auto trans & P205/55R16 AL3        | 0-3250              | 12.36              | 5.4 16.15                          | 5.9 15.55                          | CA           |
| ***** T BODY (FWD) *****             |                     |                    |                                    |                                    |              |
| PONTIAC LEMANS (2T_08,2T_19)         |                     |                    |                                    |                                    |              |
| w/man. trans & P175/70R13 ALS        | 0-2500              | 9.26               | 5.8 16.71                          | 6.4 15.83                          | CA           |
| w/auto trans & P175/70R13 ALS        | 0-2625              | 9.95               | 6.0 16.36                          | 6.6 15.44                          | CD           |
| w/man. trans & 185/60HR14            | 2750 Only           | 11.25              | 5.9 15.11                          | 6.4 14.39                          | CA           |
| w/man. trans & 185/60HR14            | 2625 Only           | 11.16              | 5.9 14.55                          | 6.4 13.86                          | CA           |
| w/auto trans & 185/60HR14            | 2750 Only           | 11.95              | 5.9 14.22                          | 6.4 13.59                          | CA           |
| w/auto trans & 185/60HR14            | 2625 Only           | 11.86              | 5.9 13.69                          | 6.4 13.08                          | CA           |
| ***** V BODY (FWD) *****             |                     |                    |                                    |                                    |              |
| CADILLAC ALLANTE (6VR67)             |                     |                    |                                    |                                    |              |
| w/P225/55VR16 HW4                    | 0-3875              | 14.75              | 5.7 16.23                          | 6.3 15.65                          | CD           |
| ***** W BODY (FWD) *****             |                     |                    |                                    |                                    |              |
| PONTIAC GRAND PRIX (2W_37)           |                     |                    |                                    |                                    |              |
| OLDSMOBILE CUTLASS SUPREME (3W_47)   |                     |                    |                                    |                                    |              |
| BUICK REGAL (4W_57)                  |                     |                    |                                    |                                    |              |
| man. tran & (P195/75&P205/70)R14     | 3625 Only           | 10.84              | 5.1 20.58                          | 5.6 19.67                          | CA           |
| man. tran & (P195/75&P205/70)R14     | 0-3500              | 10.60              | 5.1 20.37                          | 5.6 19.57                          | CA           |
| auto tran & (P195/75&P205/70)R14     | 3625 Only           | 11.34              | 5.1 19.67                          | 5.6 18.84                          | CA           |