

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-535
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 1992 model General Motors Corporation exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: N2G2.3V8XRM9 Displacement: 2.3 Liters (139 Cu. In.)

Exhaust Emission Control Systems and Special Features:

Three-Way Catalyst
Oxygen Sensor
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> <u>(Grams per Mile)</u> | <u>Carbon Monoxide</u> <u>(Grams per Mile)</u> | <u>Nitrogen Oxides</u> <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> <u>(Grams per Mile)</u> | <u>Carbon Monoxide</u> <u>(Grams per Mile)</u> | <u>Nitrogen Oxides</u> <u>(Grams per Mile)</u> |
|--|---|---|
| 0.10 | 1.8 | 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 (Title 13, California Code of Regulations, Section 2035 et seq.).

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 8th day of May, 1991.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

(FOR CARB USE ONLY)

16.03.00.00

EXECUTIVE ORDER INFORMATION

ENGINE FAMILY..... N2G2.3V8XRM9

EVAPORATIVE FAMILY..... NAO-2A

CARLINES TO BE COVERED:

| CARLINE NAME | CARLINE CODE |
|--------------|--------------|
| SKYLARK | 08055 |
| ACHIEVA | 29010 |
| GRAND AM | 33025 |

ISSUED: 04-26-91
(ML-NP273)

16-N2G2.3V8XRM9-2

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 - 6000, Cutlass Ciera, Cutlass Cruiser, Century
- B - Caprice, Custom Cruiser, Roadmaster Wagon, Coachbuilder Wagon, Roadmaster
- 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, Achieva, 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 - Commercial Chassis |
| 47 - 2Dr Hardtop Coupe | 97 - 2Dr Hardtop Coupe |

ISSUED: 04-26-91
(ML-NP273)

REVISED:

17-N2G2.3V8XRM9-1
(1992)

1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: N2G2.3V8XRM9

PASSENGER CARS X LIGHT DUTY TRUCKS___ MEDIUM DUTY VEHICLES___ FUEL TYPE: GAS

ENGINE CONFIG: I4 LITER (CID): 2.3 (139) EVAP FAMILY: NAO-2A

EMISSION CONTROL SYSTEM & SPECIAL FEATURES: TWC-02S-MPI

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

CERTIFICATION STANDARDS: 0.4 NOx DPA & RLHP: SEE ATTACHMENT I

| ENG CODE | VEH MODELS (SEE PAGE 1) | TRANS TYPE: A-AUTO M-MAN | EQUIV TEST WEIGHT | IGN SYSTEM (PCME/PROM) PART NO. | EGR SYSTEM PART NO. | CATALYST PART NO. |
|------------|--|--------------------------------|-------------------|---------------------------------------|------------------------|----------------------|
| 11, 11A | 2NE37 3NL37 4NJ37 2NE69 3NL69 4NJ69 | A3 | 3125 3250 | 16151053/AUKS | NA | 25130526 |
| 12 | 2NE37 3NL37 2NE69 3NL69 | M5 | 3125 | 16151073/AUKU | | |

ISSUED: 04-26-91
(ML-NP273)

REVISED: ML-NR048

17-N2G2.3V8XRM9-2
(1992)

ATTACHMENT I

DPA & RLHP FOR N2G2.3V8XM9

LAST UPDATED : 09/19/91

DYNAMOMETER HORSEPOWERS AND TIMES

1992 MODEL YEAR PASSENGER CARS

| Requested Coverage | Test Weight Classes | 50 mph Roadload Hp | without AC | | with AC | | Tire TPC No. |
|--|---------------------|--------------------|---------------------|-----------------|----------------|-----------------|--------------|
| | | | Actual Dyno Hp | Coast Down Time | Actual Dyno Hp | Coast Down Time | |
| ***** N BODY (FWD) ***** | | | | | | | |
| PONTIAC GRAND AM SE COUPE (2NE37) with L4 engine | | | Carline Code: 33025 | | | | |
| auto trans & BFG P195/70R14 AL2 | 0-3250 | 11.42 | 5.0 | 17.54 | 5.5 | 16.80 | 1082MS |
| man. trans & BFG P195/70R14 AL2 | 0-3250 | 10.87 | 5.1 | 18.43 | 5.6 | 17.60 | 1082MS |
| auto trans & MIC P185/75R14 ALS | 0-3250 | 10.63 | 4.9 | 18.85 | 5.4 | 18.01 | 1023MS |
| man. trans & MIC P185/75R14 ALS | 0-3250 | 10.09 | 5.0 | 19.86 | 5.5 | 18.92 | 1023MS |
| auto trans & BFG P195/65R15 AL2 | 0-3250 | 11.50 | 5.1 | 17.42 | 5.6 | 16.68 | 1103MS |
| man. trans & BFG P195/65R15 AL2 | 0-3250 | 10.94 | 5.2 | 18.31 | 5.7 | 17.48 | 1103MS |
| auto tran & GDY P205/55R16 89S AL2 | 0-3250 | 12.12 | 5.8 | 16.53 | 6.4 | 15.78 | 1107MS |
| man. tran & GDY P205/55R16 89S AL2 | 0-3250 | 11.55 | 5.9 | 17.34 | 6.5 | 16.50 | 1107MS |
| PONTIAC GRAND AM SE SEDAN (2NE69) with L4 engine | | | Carline Code: 33025 | | | | |
| auto trans & BFG P195/70R14 AL2 | 0-3250 | 11.79 | 5.3 | 16.99 | 5.9 | 16.26 | 1082MS |
| man. trans & BFG P195/70R14 AL2 | 0-3250 | 11.13 | 5.4 | 18.00 | 6.0 | 17.16 | 1082MS |
| auto trans & MIC P185/75R14 ALS | 0-3250 | 10.98 | 5.3 | 18.25 | 5.8 | 17.41 | 1023MS |
| man. trans & MIC P185/75R14 ALS | 0-3250 | 10.35 | 5.4 | 19.36 | 5.9 | 18.41 | 1023MS |
| auto trans & BFG P195/65R15 AL2 | 0-3250 | 11.87 | 5.4 | 16.87 | 5.9 | 16.14 | 1103MS |
| man. trans & BFG P195/65R15 AL2 | 0-3250 | 11.20 | 5.5 | 17.88 | 6.0 | 17.05 | 1103MS |
| auto tran & GDY P205/55R16 89S AL2 | 0-3250 | 12.51 | 6.0 | 16.02 | 6.6 | 15.29 | 1107MS |
| man. tran & GDY P205/55R16 89S AL2 | 0-3250 | 11.81 | 6.1 | 16.95 | 6.7 | 16.12 | 1107MS |
| PONTIAC GRAND AM GT COUPE (2NW37) with L4 engine | | | Carline Code: 33025 | | | | |
| auto tran & GDY P205/55R16 89S AL2 | 0-3250 | 12.12 | 5.8 | 16.53 | 6.4 | 15.78 | 1107MS |
| man. tran & GDY P205/55R16 89S AL2 | 0-3250 | 11.55 | 5.9 | 17.34 | 6.5 | 16.50 | 1107MS |
| PONTIAC GRAND AM GT SEDAN (2NW69) with L4 engine | | | Carline Code: 33025 | | | | |
| auto tran & GDY P205/55R16 89S AL2 | 0-3250 | 12.51 | 6.0 | 16.02 | 6.6 | 15.29 | 1107MS |
| man. tran & GDY P205/55R16 89S AL2 | 0-3250 | 11.81 | 6.1 | 16.95 | 6.7 | 16.12 | 1107MS |
| PONTIAC GRAND AM GT COUPE (2NW37) with L4 engine | | | Carline Code: 33025 | | | | |
| auto tran & GDY P205/55R16 89U AL3 | 0-3250 | 11.92 | 4.2 | 16.81 | 4.7 | 16.23 | 1081MS |
| man. tran & GDY P205/55R16 89U AL3 | 0-3250 | 11.36 | 4.2 | 17.63 | 4.7 | 17.02 | 1081MS |
| PONTIAC GRAND AM GT SEDAN (2NW69) with L4 engine | | | Carline Code: 33025 | | | | |
| auto tran & GDY P205/55R16 89U AL3 | 0-3250 | 12.30 | 4.5 | 16.28 | 5.0 | 15.71 | 1081MS |
| man. tran & GDY P205/55R16 89U AL3 | 0-3250 | 11.62 | 4.5 | 17.24 | 5.0 | 16.62 | 1081MS |
| OLDSMOBILE ACHIEVA SC COUPE (3NL37 + RPO W44) with L4 engine | | | Carline Code: 29010 | | | | |
| auto tran & GDY P205/55R16 89U AL3 | 0-3250 | 11.92 | 4.2 | 16.81 | 4.7 | 16.23 | 1081MS |
| man. tran & GDY P205/55R16 89U AL3 | 0-3250 | 11.36 | 4.2 | 17.63 | 4.7 | 17.02 | 1081MS |

| Requested Coverage | Test Weight Classes | 50 mph Roadload Hp | without AC | | with AC | | Tire TPC No. |
|--|---------------------|--------------------|----------------|-----------------|----------------|-----------------|---------------------|
| | | | Actual Dyno Hp | Coast Down Time | Actual Dyno Hp | Coast Down Time | |
| ***** N BODY (FWD) (continued) ***** | | | | | | | |
| OLDSMOBILE ACHIEVA S COUPE (3NL37) with L4 engine | | | | | | | Carline Code: 29010 |
| auto trans & MIC P185/75R14 ALS | 0-3250 | 10.63 | 4.9 | 18.85 | 5.4 | 18.01 | 1023MS |
| man. trans & MIC P185/75R14 ALS | 0-3250 | 10.09 | 5.0 | 19.86 | 5.5 | 18.92 | 1023MS |
| auto trans & BFG P195/65R15 AL2 | 0-3250 | 11.50 | 5.1 | 17.42 | 5.6 | 16.68 | 1103MS |
| man. trans & BFG P195/65R15 AL2 | 0-3250 | 10.94 | 5.2 | 18.31 | 5.7 | 17.48 | 1103MS |
| OLDSMOBILE ACHIEVA SC COUPE (3NL37 + RPO W44) with L4 engine | | | | | | | Carline Code: 29010 |
| auto tran & GDY P205/55R16 89S AL2 | 0-3250 | 12.12 | 5.8 | 16.53 | 6.4 | 15.78 | 1107MS |
| man. tran & GDY P205/55R16 89S AL2 | 0-3250 | 11.55 | 5.9 | 17.34 | 6.5 | 16.50 | 1107MS |
| OLDSMOBILE ACHIEVA S SEDAN (3NL69) with L4 engine | | | | | | | Carline Code: 29010 |
| auto trans & MIC P185/75R14 ALS | 0-3250 | 10.98 | 5.3 | 18.25 | 5.8 | 17.41 | 1023MS |
| man. trans & MIC P185/75R14 ALS | 0-3250 | 10.35 | 5.4 | 19.36 | 5.9 | 18.41 | 1023MS |
| auto trans & BFG P195/65R15 AL2 | 0-3250 | 11.87 | 5.4 | 16.87 | 5.9 | 16.14 | 1103MS |
| man. trans & BFG P195/65R15 AL2 | 0-3250 | 11.20 | 5.5 | 17.88 | 6.0 | 17.05 | 1103MS |
| OLDSMOBILE ACHIEVA SL COUPE (3NF37) with L4 engine | | | | | | | Carline Code: 29010 |
| auto trans & BFG P195/70R14 AL2 | 0-3250 | 11.42 | 5.0 | 17.54 | 5.5 | 16.80 | 1082MS |
| auto trans & MIC P185/75R14 ALS | 0-3250 | 10.63 | 4.9 | 18.85 | 5.4 | 18.01 | 1023MS |
| auto trans & BFG P195/65R15 AL2 | 0-3250 | 11.50 | 5.1 | 17.42 | 5.6 | 16.68 | 1103MS |
| OLDSMOBILE ACHIEVA SL SEDAN (3NF69) with L4 engine | | | | | | | Carline Code: 29010 |
| auto trans & BFG P195/70R14 AL2 | 0-3250 | 11.79 | 5.3 | 16.99 | 5.9 | 16.26 | 1082MS |
| man. trans & BFG P195/70R14 AL2 | 0-3250 | 11.13 | 5.4 | 18.00 | 6.0 | 17.16 | 1082MS |
| auto trans & MIC P185/75R14 ALS | 0-3250 | 10.98 | 5.3 | 18.25 | 5.8 | 17.41 | 1023MS |
| man. trans & MIC P185/75R14 ALS | 0-3250 | 10.35 | 5.4 | 19.36 | 5.9 | 18.41 | 1023MS |
| auto trans & BFG P195/65R15 AL2 | 0-3250 | 11.87 | 5.4 | 16.87 | 5.9 | 16.14 | 1103MS |
| man. trans & BFG P195/65R15 AL2 | 0-3250 | 11.20 | 5.5 | 17.88 | 6.0 | 17.05 | 1103MS |
| BUICK SKYLARK COUPE (4NJ37) with L4 engine | | | | | | | Carline Code: 08055 |
| auto trans & MIC P185/75R14 ALS | 0-3250 | 10.63 | 4.9 | 18.85 | 5.4 | 18.01 | 1023MS |
| auto trans & BFG P195/65R15 AL2 | 0-3250 | 11.50 | 5.1 | 17.42 | 5.6 | 16.68 | 1103MS |
| BUICK SKYLARK SEDAN (4NJ69) with L4 engine | | | | | | | Carline Code: 08055 |
| auto trans & MIC P185/75R14 ALS | 0-3250 | 10.98 | 5.3 | 18.25 | 5.8 | 17.41 | 1023MS |
| auto trans & BFG P195/65R15 AL2 | 0-3250 | 11.87 | 5.4 | 16.87 | 5.9 | 16.14 | 1103MS |
| BUICK SKYLARK GRAND SPORT COUPE (4NM37) with L4 engine | | | | | | | Carline Code: 08055 |
| auto tran & GDY P205/55R16 89S AL2 | 0-3250 | 12.12 | 5.8 | 16.53 | 6.4 | 15.78 | 1107MS |
| BUICK SKYLARK GRAND SPORT SEDAN (4NM69) with L4 engine | | | | | | | Carline Code: 08055 |
| auto tran & GDY P205/55R16 89S AL2 | 0-3250 | 12.51 | 6.0 | 16.02 | 6.6 | 15.29 | 1107MS |