

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-534  
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: N2G2.3V8XEW3 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>
0.14	1.6	0.1

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.

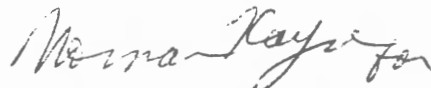
BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

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 8<sup>th</sup> 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..... N2G2.3V8XEW3

EVAPORATIVE FAMILY..... NAO-2G

CARLINES TO BE COVERED:

CARLINE NAME	CARLINE CODE
BERETTA	12020
ACHIEVA	29010
GRAND AM	33025

ISSUED: 04-18-91  
(ML-NP258)

16-N2G2.3V8XEW3-2

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: 04-18-91  
(ML-NP258)

REVISED:

17-N2G2.3V8XEW3-1  
(1992)

1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: N2G2.3V8XEW3

PASSENGER CARS X LIGHT DUTY TRUCKS\_\_\_ MEDIUM DUTY VEHICLES\_\_\_ FUEL TYPE: GAS

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

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, 11B	2NE37 2NF37 2NE69 2NF69 2NW37 2NW69 3NL37	A3	3125 3250	16151093/AUKX	NA	25100635
12	2NW37 2NW69	M5	3125 3250	16151113/AUKZ		
13	1LZ37			16151133/AULB		25129472
14	2NW37 2NW69 3NL37		3125 3250	16162023/AXRM		25100635
15	3NL37			16161833/AXPS		

ISSUED: 04-18-91  
(ML-NP258)

REVISED: ML-NP263, NR048, NR075

17-N2G2.3V8XEW3-2  
(1992)

ATTACHMENT I

DPA & RLHP FOR N2G2.3V8XEW3

EO# A-6-534

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



ED #A-6-534

LAST UPDATED : 09/19/91

DATE :09/19/91

DYNAMOMETER HORSEPOWERS AND TIMES

1992 MODEL YEAR PASSENGER CARS

Body Style	Test Weight Classes	50mph .w/o AC Factor..			.with AC Factor. ....			Highest Volume Tire.....	(NOT OFFICIAL).....Tire	Drive Axle Belt TPC Disc Ltr
		Road Load Dyno	Coast.....	Coast.....	Dyno Down Upper	Dyno Down Upper	Limit			

\*\*\*\*\* L BODY (FWD)(continued) \*\*\*\*\*

CHEVROLET BERETTA GTZ COUPE (1LZ37)

Carline Codes: 12020

auto trans & GDY P205/55R16 Hw4	3375 Only	12.25	5.0	17.01	18.20	5.5	16.34	17.48	P205/55R16	Hw4	ST/NYL	GDY 1073	032A
auto trans & GDY P205/55R16 Hw4	0-3250	12.08	4.9	16.84	17.80	5.4	15.99	17.10	P205/55R16	Hw4	ST/NYL	GDY 1073	T 032
LOWER TWC	3125		4.9	16.00	17.11	5.4	15.37	16.45					
man. trans & GDY P205/55R16 Hw4	3375 Only	11.70	5.0	17.80	19.04	5.5	17.07	18.26	P205/55R16	Hw4	ST/NYL	GDY 1073	032A
man. trans & GDY P205/55R16 Hw4	0-3250	11.61	4.9	17.44	18.66	5.4	16.72	17.89	P205/55R16	Hw4	ST/NYL	GDY 1073	T 032
LOWER TWC	3125		4.9	16.77	17.94	5.4	16.08	17.20					
auto trans & GDY P205/55R16 AL2	0-3250	11.89	5.1	17.16	18.36	5.6	16.45	17.60	P205/55R16	AL2	STEEL	GDY 1107MS	V 032
LOWER TWC	3125		5.1	16.50	17.65	5.6	15.82	16.92					
man. trans & GDY P205/55R16 AL2	0-3250	11.19	5.1	17.94	19.19	5.6	17.16	18.36	P205/55R16	AL2	STEEL	GDY 1107MS	V 032
LOWER TWC	3125		5.1	17.25	18.45	5.6	16.50	17.65					