

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-466
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 emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family: L1G2.2W5JFG7 Displacement: 2.2 Liters (134 Inches³)

Equipped with the following exhaust emission control systems:

- Exhaust Gas Recirculation
- Oxygen Sensor
- Three-Way Catalyst
- Throttle Body Electronic Fuel Injection
- On-Board Diagnostics (Exempted)

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>
0.21	3.0	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 have been granted an exemption from compliance 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 (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 1st day of March, 1989.



K. D. Drachand, Chief
Mobile Source Division

(FOR CARB USE ONLY)

SUPPLEMENTAL DATA AND CERTIFICATION REVIEW SHEETS

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17-L1G2.2W5JFG7-3A	01-12-89	Supplemental Data Sheet
17-L1G2.2W5JFG7-4A	01-12-89	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: 01-12-89

REV. NO.:

17-L1G2.2W5JFG7-Index 1A
(1990)

(FOR CARB USE ONLY)

E.O. # A-6-466

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: 01-12-89

REV. NO.:

17-L1G2.2W5JFG7-1A
(1990)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: L1G2.2W5JFG7

PASSENGER CARS X LIGHT DUTY TRUCKS ___ MEDIUM DUTY VEHICLES ___ GAS X DIESEL ___

ENGINE TYPE: L4 (RPO: LM3) LITER (CID): 2.2 (134) EVAP FAMILY: LA0-1G

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

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

CERTIFICATION STANDARDS: 0.4 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.
51	4JS27 1JC37 1JC69 1JC35 4JS69 4JS35	M5	2750 2875	16120491/ AMXB, 16144741/ ATLC	17090076	25127553
51A				16147621/ ATXD		
52	1JC37 1JC69 4JS27 4JS69 4JS35 1JC35		2750 2875	16120491/ AMXB, 16144741/ ATLC		
52A				16147621/ ATXD		

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17-L1G2.2W5JFG7-2A
(1990)

(FOR CARB USE ONLY)

E.O. # A-6-466

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: L1G2.2W5JFG7

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

ENGINE TYPE: L4 (RPO: LM3) LITER (CID): 2.2 (134) EVAP FAMILY: LA0-1G

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

ENGINE: FRONT X MID___ REAR___ DRIVE: FWD X RWD___ 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>
53	1LT69 1LT68 1LV37	M5	3000	16120531/ AMXH, 16144781/ ATLJ	17090076	25103078
53A				16147411/ ATWT		
54	1LT69 1LT68 1LV37			16120531/ AMXH, 16144781/ ATLJ		
54A				16147411/ ATWT		

ISSUED: 002

REV. NO.:

17-L1G2.2W5JFG7-2.1A
(1990)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: L1G2.2W5JFG7

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

ENGINE TYPE: L4 (RPO: LM3) LITER (CID): 2.2 (134) EVAP FAMILY: LAO-1G

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

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

CERTIFICATION STANDARDS: 0.4 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.
61	1JC35	A3	3000	16120471/ AMWZ,	17090076	25127553
	4JS35		2875	16144721/ ATLA,		
	1JC37		2750	16150591 / AUJS		
	1JC69					
	4JS69					
62	1JC35		3000			
	4JS35		2750			
	1JC37		2875			
	4JS27					
	1JC69					
63	1LT69		3000	16120511/ AMXD,		25103078
	1LT68		3125	16144761/ ATLF,		
	1LV37		3000	16150611 AUJU		
64	1LT69					
	1LT68					
	1LV37					

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REV. NO.: 001, 003

17-L1G2.2W5JFG7-3A
(1990)