

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-369
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 1987 model-year exhaust-certified emission control systems are certified as described below for gasoline-powered passenger cars:

| <u>Engine Family</u> | <u>Displacement Cubic Inches (Liters)</u> | <u>Exhaust Emission Control Systems (Special Features)</u> |
|----------------------|---|--|
| H2G3.8W2NSY4 | 231 (3.8) | Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop |

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 Grams per Mile</u> | <u>Carbon Monoxide Grams per Mile</u> | <u>Nitrogen Oxides Grams per mile</u> |
|--|---|---|
| 0.39 | 7.0 | 0.7 |

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

| <u>Hydrocarbons Grams per Mile</u> | <u>Carbon Monoxide Grams per Mile</u> | <u>Nitrogen Oxides Grams per Mile</u> |
|--|---|---|
| 0.16 | 1.7 | 0.5 |

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

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 Administrative Code, 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 1981 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 Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) 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 regulations (Title 13, California Administrative Code, 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 1st day of April, 1986.



K. D. Drachand, Chief
Mobile Source Division

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corporation Executive Order No. A-6-369 Page 1

Engine Family H2G3.8W2NSY4 Evaporative Family 7B3-2B

Engine CID (Liters) - Type 231 (3.8) - V6

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
 EEC-Electronic Engine Control
 EI-Electronic Ignition
 ESAC-Electronic Spark Advance Control
 VA-Vacuum Advance
 VR-Vacuum Retard

Exhaust Emissions Control System

AIP-Air Injection-Pump
 AIV-Air Injection-Valve
 CL-Closed Loop
 EGR-Exhaust Gas Recirculation
 EM-Engine Modification
 OC-Oxidation Catalyst System
 TR-Thermal Reactor
 TWC-Three Way Catalyst System

Headings

AIR COND-Air Conditioning
 BB-Basic Body
 BT-Body Type
 DI-Diesel Injection
 DIN-Diesel Injector Nozzles
 DIV-Division
 ECM-Electronic Control Module
 ETW-Equivalent Test Weight
 TLC-Tune-Up Label Code
 TNS-Transmission
 TM-Trim

Fuel System

CFI,CL,DID,DIP,EFI,MFI
 nV-nVenturi Carburetor
 VV-Variable Venturi

Special Features

CCV-Combustion Chamber Valve
 CFI-Central Fuel Injection
 DID-Diesel Injection-Direct
 DIP-Diesel Injection-Prechamber
 EFI-Electronic Fuel Injection
 IC-Intercooler
 MFI-Mechanical Fuel Injection
 TC-Turbocharger

| <u>DIV</u> | <u>BB</u> | <u>TM</u> | <u>BT</u> | <u>MODEL NAME</u> | <u>DIV</u> | <u>BB</u> | <u>TM</u> | <u>BT</u> | <u>MODEL NAME</u> |
|------------|-----------|-----------|-----------|--------------------------------|------------|-----------|-----------|-----------|-------------------|
| 2 | | | | PONTIAC | | | | | |
| | G | J | 37 | Grand Prix Coupe | | | | | |
| | | K | 37 | Grand Prix LE Coupe | | | | | |
| | | P | 37 | Grand Prix Brougham Coupe | | | | | |
| 3 | | | | OLDSMOBILE | | | | | |
| | G | K | 47 | Cutlass Salon Coupe | | | | | |
| | | M | 47 | Cutlass Supreme Brougham Coupe | | | | | |
| | | | 69 | Cutlass Supreme Brougham Sedan | | | | | |
| | | R | 47 | Cutlass Supreme Coupe | | | | | |
| | | | 69 | Cutlass Supreme Sedan | | | | | |
| 4 | | | | BUICK | | | | | |
| | G | J | 47 | Regal Coupe | | | | | |
| | | M | 47 | Regal Limited Coupe | | | | | |

DRIVE AXLE: Rear Wheel Drive

SUED:

REVISIONS:

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-369 Page 2

Engine Family H2G3.8W2NSY4 Exhaust Emission Control System AIP, CL, EGR, TWC

| ENG. CID | ENG. CODE | AIR COND | ECM PART NO. | 2V CARB. PART NO. | EGR VALVE PART NO. | ETW | DIV | B | T | M | BT | TNS | TLC | REV. NOTES |
|----------|-----------|----------|--------------|-------------------|--------------------|------|-----|------|---|---|----|-----|-----|------------|
| 231 | 11 | W/WO | 16049204 | 17086190 | 17084749 | 3625 | 2 | G | | | 37 | A-3 | NDI | |
| | | | | | | | | 34 | G | | 47 | | | |
| | | | | | | | | 3 | G | R | 69 | | | |
| | | | | | | | | 3750 | 3 | G | M | 69 | | |

Comments: See page one for abbreviations and evaporative emission family identification
Please refer to manufacturer's HP lists for correct dyno test HP settings
based on model and equipment.

SUED:

REVISIONS:

0515Q