State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-342
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 1986 model-year General Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

| Engine Family | Displacement Cubic Inches (Liters) | | Exhaust Emission Control Systems (Special Features) |
|---|---|---|---|
| G1G5.OW4NEA1 | 305 | (5.0) | Air Injection-Pump<br>Exhaust Gas Recirculation<br>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:

| Hydrocarbons Grams per Mile | Carbon Monoxide Grams per Mile | Nitrogen Oxides Grams per mile |
|---|---|---|
| 0.39 | 7.0 | 0.7 |

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

| Hydrocarbons Grams per Mile | Carbon Monoxide Grams per Mile | Nitrogen Oxides Grams per Mile |
|---|---|---|
| 0.15 | 5.1 | 0.4 |

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 2nd day of August, 1985.

K. D. Drachand, Chief
Mobile Source Division

# 1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corporation Executive Order No. A-6-342 Page 1

Engine Family G1G5.0W4NEA1 Evaporative Family 6B4H-1B

Engine CID (Liters) - Type 305 (5.0)

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,TBI
nV-nVenturi Carburetor
VV-Variable Venturi

**Special Features**
CCV-Combustion Chamber Valve
CFI-Central Fuel Injection
DID-Diesel Injection-Direct
DIP-Diesel Injection-Prechamber
MFI-Mechanical Fuel Injection
TC-Turbocharged
TBI-Throttle Body Injection
EFI-Electronic Fuel Injection

| DIV | BB | TM | BT | MODEL NAME |
|---|---|---|---|---|
| 1 | | | | CHEVROLET |
| | B | L | 69 | Impala Sedan |
| | | N | 35 | Caprice Classic Sation Wagon |
| | | | 47 | Caprice Classis Coupe |
| | | | 69 | Caprice Classic Sedan |
| | F | P | 87 | Camaro Sport Coupe |
| | | S | 87 | Camaro Berlinetta Sport Coupe |
| | G | W | 80 | El Camino/Cabellero |
| | | Z | 37 | Monte Carlo Sport Coupe |

| DIV | BB | TM | BT | MODEL NAME |
|---|---|---|---|---|
| 2 | | | | PONTIAC |
| | B | L | 35 | Parisienne Safari Wagon |
| | | | 69 | Parisienne Sedan |
| | | T | 69 | Parisienne Brougham Sedan |
| | F | S | 87 | Firebird |
| | | W | 87 | Firebird Trans Am |
| | | X | 87 | Firebird S/E |
| | G | J | 37 | Grand Prix Coupe |
| | | K | 37 | Grand Prix LE Coupe |
| | | N | 69 | Bonneville Sedan |
| | | P | 37 | Grand Prix Brougham Coupe |
| | | R | 69 | Bonneville Brougham Sedan |
| | | S | 69 | Bonneville LE Sedan |

DRIVE AXLE: Rear Wheel

ISSUED: REVISIONS:

0168N

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-342 Page 2

Engine Family G1G5.0W4NEA1 Exhaust Emission Control System AIP, TWC, EGR, CL

| ENG. CID | ENG. CODE | AIR COND | ECM PART NO. | 4V CARB. PART NO. | EGR VALVE PART NO. | ETW | DIV | B B | T M | BT | TNS | TLC | REV. NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 305 | 51 | W & WO | 16048321 | 17086004 | 17084735 | 4000 | 1 | B | | 47 | A-4 | YCP | |
| | | | | | | | 1 | B | L | 69 | | | |
| | | | | | | 4250 | 1 | B | N | 69 | | | |
| | | | | | | | 2 | B | | 69 | | | |
| | 55 | | 16048341 | | 17084738 | 4500 | 12 | B | | 35 | | | |
| | 57 | | 16048351 | | | 4500 | 12 | B | | 35 | | | |
| | 69 | | 16048411 | | 17084735 | 3750 | 1 | G | | 37 | | | |
| | | | | | | | 2 | G | | 69 | | | |
| | | | | | | 3875 | 2 | G | | 37 | | | |
| | 71 | | 16048451 | | | 3750 | 1 | G | | 37 | | | |
| | | | | | | | 2 | G | | 69 | | | |
| | | | | | | | 1 | G | | 80 | | | |
| | | | | | | 3875 | 2 | G | | 37 | | | |
| | 73 | | 16048431 | 17086003 | 17084737 | 3750 | 1 | G | | 37 | | YCY | |
| | 75 | | 16048651 | 17086004 | 17084735 | 3750 | 1 | G | | 80 | A-3 | YCP | |
| | 77 | | 16048441 | | | 3750 | 1 | G | | 37 | A-4 | | A |
| | | | | | | | 2 | G | | 69 | | | |
| | | | | | | | 1 | G | | 80 | | | |
| | | | | | | 3875 | 2 | G | | 37 | | | |
| | 91 | | 16048261 | | | 3625 | 1 | F | | 87 | | YCR | |
| | | | | | | 3750 | 2 | F | | 87 | | | |
| | 93 | | | | | 3625 | 1 | F | | 87 | | | |
| | | | | | | 3750 | 2 | F | | 87 | | | |

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.

ISSUED:

REVISIONS: A. Models added to engine code 77 by RC 61-026 on 07-26-85.

0168N