

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-198
Relating to Certification of New Motor Vehicle Engines

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following General Motors Corporation 1981 model-year gasoline engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
GM 112	292 (4.8)	Air Injection
GM 113	350 (5.7)	Air Injection
GM 114	366 (6.0)	Air Injection
	427 (7.0)	Air Injection
GM 115	454 (7.4)	Air Injection

Engine Models and Codes as listed on attachments.

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the engine manufacturer furnish a decal with each engine sold or delivered to a vehicle manufacturer. The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following certification emission values:

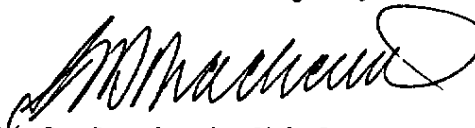
<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Hydrocarbons + Nitrogen Oxides gm/bhp-hr</u>
GM 112	0.1	16	5.6
GM 113	0.4	17	5.3
GM 114	0.3	18	5.6
GM 115	0.5	21	5.4

BE IT FURTHER RESOLVED: That General Motors Corporation has provided to the Executive Officer all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

Engines 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 7th day of August, 1980.


K. D. Drachand, Chief
Mobile Source Control Division

1981 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corporation Executive Order No. A-6-198 Page 1
 Engine Family GM 112, 113, 114, 115 Evaporative Family NA

ABBREVIATIONS Engine CID (Liters) 292 (4.8); 350 (5.7);
366 (6.0); 427 (7.0);
454 (7.4)

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

Special Features

CCV-Combustion Chamber Valve
 CFI-Central Fuel Injection
 DI-Diesel Injection
 EFI-Electronic Fuel Injection
 MFI-Mechanical Fuel Injection
 TC-Turbocharged

Fuel System

CFI, DI, EFI, MFI
 nV-nVenturi Carburetor
 VV-Variable Venturi

1981 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY GASOLINE ENGINES

Manufacturer GENERAL MOTORS CORPORATION Page 2

Engine Family GM 112 CID-Type 292-L6 Eng. Code _____

ECS(Special Features) AIP

Engine Model (Engine Code)	Ignition System EI, CA, VA Delco Remy Distrib. Part Number	Fuel System 1V Rochester Carb. Part Number	EGR Valve Part Number	Label Ident. Part No. Code	
L25 (1)	1110753	17081309 17081329	None	ADH	

Date of Issue: 080880.

1981 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY GASOLINE ENGINES

Manufacturer GENERAL MOTORS CORPORATION Page 3

Engine Family GM 113 CID-Type 350-V8 Eng. Code

ECS(Special Features) AIP

Engine Model (Engine Code)	Ignition System EI, Delco Remy Distrib. Part Number	Fuel System Rochester Carb. Part Number	EGR Valve Part Number	Label Ident.	
				Part No. Code	
LT9 (2) 350	1103420 (CA/VA)	17080507 17080513 4V	None	ACK	
LF5 (3) 350	1103378 (CA)	17080420 17080424 2V		LF5/NB4	
LF5 (5) 350		17080423 2V			

1981 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY GASOLINE ENGINES

Manufacturer GENERAL MOTORS CORPORATION Page 4

Engine Family GM 114 CID-Type 366/427-V8 Eng. Code _____

ECS(Special Features) AIP

Engine Model (Engine Code)	Ignition System EI, CA	Fuel System 4V	EGR Valve	Label Ident.	
	Delco Remy Distrib. Part Number	Rochester Carb. Part Number	Part Number	Part No. Code	
L86 (1)	1103377	2047671 2047672	None	L86/NB4	
L43 (2)		2047680 2047684		L43/NB4	

Date of Issue: 080880.

1981 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY GASOLINE ENGINES

Manufacturer GENERAL MOTORS CORPORATION Page 5

Engine Family GM 115 CID-Type 454-V8 Eng. Code

ECS(Special Features) AIP

Engine Model (Engine Code)	Ignition System EI, CA, VA Delco Remy Distrib. Part Number	Fuel System 4V Rochester Carb. Part Number	EGR Valve Part Number	Label Ident. Part No. Code	
LE8 (1)	1103376	17080512	None	ADK	