

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-235  
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 1982 model-year diesel 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</u> <u>Cubic Inches (Liters)</u>		<u>Exhaust Emission Control Systems</u> <u>(Special Features)</u>
CGM0426FWFX	426	(7.0)	Aftercooler Throttle Delay (Turbocharged)
CGM0552FWG5	552	(9.0)	Aftercooler Throttle Delay (Turbocharged)
CGM0736FWH2	736	(12.1)	Aftercooler Throttle Delay (Turbocharged)
CGM08.2DAB4	500	(8.2)	Engine Modification
CGM08.2EAB7	500	(8.2)	Engine Modification (Turbocharged)

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:

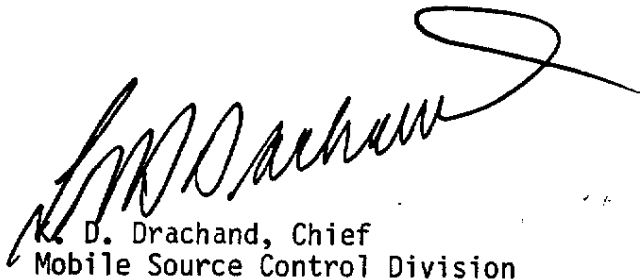
<u>Engine Family</u>	<u>Hydrocarbons</u> <u>gm/bhp-hr</u>	<u>Carbon</u> <u>Monoxide</u> <u>gm/bhp-hr</u>	<u>Hydrocarbons +</u> <u>Nitrogen Oxides</u> <u>gm/bhp-hr</u>
CGM0426FWFX	0.8	3	6.0
CGM0552FWG5	0.7	3	6.0
CGM0736FWH2	0.5	3	6.0
CGM08.2DAB4	0.6	3	5.6
CGM08.2EAB7	0.5	2	5.6

BE IT FURTHER RESOLVED: That the Executive Officer has been provided 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 30<sup>th</sup> day of November 1981



R. D. Drachand, Chief  
Mobile Source Control Division

1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHLET

Manufacturer GENERAL MOTORS CORP. Executive Order No. A-6-235 Page 1  
Engine Family See Pages 2-6 Evaporative Family NA  
Engine CID (Liters) See Pages 2-6

ABBREVIATIONS

Ignition System

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

Fuel System

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

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  
DID-Diesel Injection-Direct  
DIP-Diesel Injection-Prechamber  
MFI-Mechanical Fuel Injection  
TC-Turbocharged

DRIVE SYSTEM: NA

Issued: 113081.

1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINES

Manufacturer General Motors Corporation Page 2  
 Engine Family CGM0426FWFX CID-Type 426 - 6L  
 ECS (Special Features) Throttle Delay and Aftercooler (Turbocharged)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm <sup>3</sup> /stroke	Label Ident.
6L-71TA	None	7G65 GMC 5229895	235 @ 2100	69.5	8923553
		7G70 GMC 5229900	250 @ 2100	73.6	
		7G75 GMC 5229905	270 @ 2100	79.3	
		7G75 Constant Power 5229905	180 @ 1800 Min.	60.8	

Date of Issue: 113081.

1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINES

Manufacturer General Motors Corporation Page 3

Engine Family CGM0552FWG5 CID-Type 552 - V6

ECS (Special Features) Throttle Delay and Aftercooler (Turbocharged)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM		Fuel Rate at Maximum HP		Label Ident.	
			HP	RPM	#1 D.F.	#2 D.F.		
6V-92TA	None			2100			8923553	
		9F80 5226080	288			82.1		
		9F85 5226085	306			87.1		
		9F90 5226090	325			92.1		
		9F90 Constant Power 5226090	240	1800				76.8
6V-92TA		7G65 5229895	216 232	2100		69.3	71.7	
		7G70 5229900	236 253			74.7	77.1	
		7G75 5229905	254 271			79.5	81.9	
		9E65 5229970	222 240			2100	69.9	71.9
		9E70 5229975	240 260	2100	74.6	76.6		

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1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINES

Manufacturer General Motors Corporation Page 4

Engine Family CGM0736FWH2 CID-Type 736 - V8

ECS (Special Features) Throttle Delay and Aftercooler (Turbocharged)  
*OR FUEL MODULATOR*

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm <sup>3</sup> /stroke	Label Ident.
8V-92TA	None	9F80 5226080	400 @ 2100	82.5	8923553
		9F85 5226085	425 @ 2100	87.5	
		9F90 5226090	440 @ 2100	92.5	
		9F90 Constant Power 5226090	335 @ 1800 Min.	78.1	
8V-92TA	None	7G75 5229905	355 @ 1800	83.3	

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HEAVY-DUTY DIESEL ENGINES

Manufacturer General Motors Corporation Page 5  
 Engine Family CGM08.2DAB4 Liter-Type 8.2 - V8  
 CID-Type 500 - V8  
 ECS (Special Features) Engine Modification

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm <sup>3</sup> /stroke	Label Ident.
V8-8.2	None	4A53 GMC 5229850	165 @ 3000	52.5	8923634

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HEAVY-DUTY DIESEL ENGINES

Manufacturer General Motors Corporation Page 6  
 Engine Family CGM08.2EAB7 Liter-Type 8.2 - V8  
 CID-Type 500 - V8  
 ECS (Special Features) (Turbocharged) Engine Modification

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm <sup>3</sup> /stroke	Label Ident.
V8-8.2T	None	4C65 5229915	205 @ 3000	64.9	8923633

Date of Issue: 113081.