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:

Engine Family	Displacement Cubic Inches	(Liters)	Exhaust Emission Control Systems (Special Features)
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:

Engine Family	Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Hydrocarbons + Nitrogen Oxides gm/bhp-hr
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 30th day of November 1981

K. D. Drachand, Chief
Mobile Source Control Division

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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.

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HEAVY-DUTY DIESEL ENGINES

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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^3/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.

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HEAVY-DUTY DIESEL ENGINES

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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 mm^3/stroke		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	216	2100	69.3		
		5229895	232			71.7	
		7G70	236		74.7		
		5229900	253			77.1	
		7G75	254		79.5		
		5229905	271			81.9	
		9E65	222	2100	69.9		
		5229970	240			71.9	
		9E70	240	2100	74.6		
		5229975	260			76.6	

Date of Issue: 113081.

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HEAVY-DUTY DIESEL ENGINES

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Engine Family CGM0736FWH2 CID-Type 736 - V8

ECS (Special Features) Throttle Delay OR FUEL MODULATOR 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^3/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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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^3/stroke	Label Ident.
V8-8.2	None	4A53 GMC 5229850	165 @ 3000	52.5	8923634

Date of Issue: 113081.

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HEAVY-DUTY DIESEL ENGINES

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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^3/stroke	Label Ident.
V8-8.2T	None	4C65 5229915	205 @ 3000	64.9	8923633

Date of Issue: 113081.