State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-242
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 1983 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)
D1G2.8W2NNA3	173	(2.8)	Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop

Vehicle Models, Transmissions, Engine Codes and Evaporative Emission Control Families as listed on attachments.

The following are the emission standards for this engine family to be listed on the window decal required by California Assembly-Line Test Procedures for 1983 model-year vehicles:

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
0.16	3.0	0.6

BE IT FURTHER RESOLVED: That the listed vehicle models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.15 of Title 13, California Administrative Code which includes repair or replacement of 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 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).

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 27th day of July, 1982.

K. D. Drachand, Chief
Mobile Source Control Division

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Manufacturer General Motors Corporation Executive Order No. A-6-242 Page 1

Engine Family D1G2.8W2NNA3 Evaporative Family 3B6-1C

Engine CID (Liters) 173 (2.8)

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, 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

DIV	BB	TM	BT	MODEL NAME
1				CHEVROLET
	A	W	19	Celebrity Sedan
			27	Celebrity Notchback Coupe
	F	P	87	Camaro Sport Coupe
		S	87	Camaro Berlinetta Sport Coupe
	X	H	11	Citation Slantback Coupe
		X	08	Citation Hatchback Coupe
			68	Citation Hatchback Sedan
2				PONTIAC
	A	F	19	6000 Sedan
			27	6000 Coupe
		G	19	6000 LE Sedan
			27	6000 LE Coupe
		H	19	6000 STE Sedan
	F	S	87	Firebird
		W	87	Firebird Trans Am
		X	87	Firebird S/E
	X	T	37	Phoenix SJ Coupe
			68	Phoenix Hatchback SJ Sedan
2				PONTIAC
	X	Y	37	Phoenix Coupe
			68	Phoenix Hatchback Sedan
		Z	37	Phoenix LJ Coupe
			68	Phoenix Hatchback LJ Sedan
3				OLDSMOBILE
	X	B	37	Omega Coupe
			69	Omega Sedan
		E	37	Omega Brougham Coupe
			69	Omega Brougham Sedan
4				BUICK
	X	B	37	Skylark Coupe
			69	Skylark Sedan
		C	37	Skylark Limited Coupe
			69	Skylark Limited Sedan
		D	37	Skylark Sport Coupe
			69	Skylark Sport Sedan

DRIVE AXLE: Front wheel drive for A and X basic body.
Rear wheel drive for F basic body.

ISSUED: REVISIONS:

0265U

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GASOLINE-FUELED PASSENGER CARS

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Engine Family D1G2.8W2NNA3 Exhaust Emission Control System AIP, EGR, TWC, CL

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	2V CARB. PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
173	51,	W	16023051	17083452	17064057	3125	12	A		19	A3	DSU	A
	51A,						12	A		27			B
	51C												DE
	51B,		16033021		17064924	3000	1	X		08			C
	51D						1	X		11			E
							1	X		68			
							234	X		37			
							2	X	Y	68			
							3	X		69			
							4	X	B	69			
						3125	12	A		19			
							12	A		27			
							2	X	Z	68			
							4	X	CD	69			
	52,	W/O	16023051	17083450	17064057	3125	12	A		19			
	52A,						12	A		27			B
	52C												E
	52B,		16033021		17064924	2875	34	X	B	37			C
	52D												E
						3000	1	X		08			
							1	X		11			
							12	X		68			
							2	X		37			
							3	X	E	37			
							34	X		69			
							4	X	CD	37			
						3125	12	A		19			
							12	A		27			

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, equipment and frontal area.

ISSUED: 072782

REVISIONS: A. 1A19 revised ETW by RC 31-007 on 080382. B. EC 51A and 52A added by RC 31-039 on 081382. C. EC 51B and 52B added by RC 31-092 on 091582. D. Corrected ETW for 2A19 and 2A27 on 091582. E. EC 51C, 52C, 51D and 52D added by RC 31-098 on 092982.

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GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-242 Page 2.1

Engine Family D1G2.8W2NNA3 Exhaust Emission Control System AIP, EGR, TWC, CL

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	2V CARB. PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
173	61,	W	16023071	17083452	17064057	3000	1	X		08	A3	DSU	
	61A,						1	X		11			A
	61B						1	X		68			B
							234	X		37			
							2	X	Y	68			
							3	X		69			
							4	X	B	69			
						3125	2	X	Z	68			
							4	X	CD	69			
	62,	W/O		17083450		2875	34	X	B	37			
	62A,												A
	62B					3000	1	X		08			B
							1	X		11			
							12	X		68			
							2	X		37			
							3	X	E	37			
							34	X		69			
							4	X	CD	37			

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, equipment and frontal area.

ISSUED: 072782 REVISIONS: A. EC 61A and 62A added by RC 31-039 on 081382.
B. EC 61B and 62B added by RC 31-098 on 092982.

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Engine Family D1G2.8W2NNA3 Exhaust Emission Control System AIP, EGR, TWC, CL

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	2V CARB. PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
173	63,	W	16023091	17083453	17061104	3000	1	X		08	M4	DSW	
	63A						1	X		11			A
							234	X		37			C
							12	X		68			
							34	X		69			
	64,	W/O		17083451		2875	1	X		08			
	64A						1	X		11			A
							3	X		37			
							4	X	B	37			C
							3	X	B	69			
						3000	2	X		37			C
							4	X	CD	37			CD
							12	X		68			
							3	X	E	69			
							4	X		69			
	65	W	16030051	17083632	17064057	3375	12	F		87	A3	DSX	
	65A,		16025321										B
	65B												F
	66	W/O	16030051	17083630		3250	1	F		87			
	66A,		16025321										B
	66B					3375	2	F		87			F
	71,	W	16025341	17083632		3375	12	F		87	A4		B
	71A												F
	72,	W/O		17083630		3250	1	F	P	87			B
	72A					3375	1	F	S	87			F
							2	F		87			
	75	W	16030071	17083633	17061104	3250	1	F		87	M5	DSY	
	75A		16023171				2	F	S	87			B
						3375	2	F	X	87			
	76	W/O	16030071	17083631		3250	12	F		87			
	76A		16023171										B
													E

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, equipment and frontal area.

ISSUED: 072782 REVISIONS: A. EC 63A and 64A added by RC 31-039 on 081382. B. EC 65A, 66A, 71, 72, 75A and 76A added by RC 31-086 on 092482. C. Reordered body type in ascending order on 092482. D. Corrected trim level for 4X37 to include "D" trim code previously shown incorrectly with 4X69 on 092482. E. EC 79 and 79A moved to page 4 on 100782. F. EC 65B, 66B, 71A and 72A added by RC 31-105 on 101982.

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Engine Family D1G2.8W2NNA3 Exhaust Emission Control System AIP, EGR, TWC, CL

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	2V CARB. PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
173	79,	W	16025511	17083456	17064057	3250	2	A		19	A3	DSZ	
	79A												A
	79B,			17083650									B
	79C												C
	81,		16026661	17083456		3250	2	A		19			
	81A												A
	81B			17083650									B
	83,		16023111	17083456		3000	1	X		08		DTA	
	83A						1	X		11			A
	83B,			17083650			1	X		68			B
	83C												C
	84,	W/O		17083454		3000	1	X		08			
	84A,						1	X		11			A
	84B						1	X		68			C
	85,	W		17083456		3000	1	X		08		DSZ	
	85A						1	X		11			A
	85B,			17083650			2	X	YZ	37			BD
	85C						4	X	BD	37			C
							1	X		68			
						3125	2	X	T	37			
							3	X		37			
							4	X	C	37			
							2	X		68			
							34	X		69			
	86,	W/O		17083454		3000	1	X		08			
	86A,						1	X		11			A
	86B						2	X	YZ	37			CD
							34	X		37			
							1	X		68			
							2	X	YZ	68			D
							34	X		69			
						3125	2	X	T	37			
							2	X	T	68			
	87,	W &	16023131	17083455		3000	1	X		08	M4	DTB	
	87A	W/O					1	X		11			A
							1	X		68			

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, equipment and frontal area.

ISSUED: 072782 REVISIONS: A. EC 79A, 81A, 83A-87A added by RC 31-039 on 081382. B. EC 79B, 81B, 83B and 85B added by RC 31-100 on 100782. C. EC 79C, 83C, 84B, 85C and 86B added by RC 31-057 on 121682. D. Models 2XY37, 2XZ37, 2XY68 and 2XZ68 added by RC 31-203 on 022383.

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Engine Family D1G2.8W2NNA3 Exhaust Emission Control System AIP, EGR, TWC, CL

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	2V CARB. PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
173	89,	W &	16023131	17083455	17064057	3000	1	X		08	M4	DTC	
	89A	W/O					1	X		11			A
							234	X		37			
							1	X		68			
							34	X		69			
						3125	2	X		68			
	91	W	16023191	17083636		3375	12	F		87	A3	DTD	
	92	W/O		17083634		3375	12	F		87			
	93	W	16021681	17083636		3375	12	F		87	A4		
	94	W/O		17083634		3250	1	F		87			
						3375	2	F		87			
	95	W	16023211	17083635		3250	2	F	S	87	M5		
						3375	1	F		87			
							2	F	WX	87			
	96	W &	16030471			3250	2	F	S	87			B
		W/O											
						3375	1	F		87			
							2	F	WX	87			B
	97,	W	16030021	17083636		3375	1	F		87	A4		C
	97A,						2	F		87			D
	97B												E
	98,	W/O		17083634		3250	1	F		87			
	98A,												D
	98B					3375	2	F		87			E

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, equipment and frontal area.

ISSUED: 072782 REVISIONS: A. EC 89A added by RC 31-039 on 081382. B. EC 96 revised by RC 31-006 on 090382. C. Corrected trans for EC 97 and 98 to A4 on 092482. D. EC 97A and 98A added by RC 31-086 on 092482. E. EC 97B and 98B added by RC 31-057 on 121682.