State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-324
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 1985 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)
F1G2.8W8XGZ3	173	(2.8)	Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop (Electronic Fuel Injection)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the certification emission standards for this engine family to be listed on the window decal required by "California Assembly-Line Test Procedures for 1983 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks and Medium-Duty 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 the above engine family:

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0.23	2.8	0.5

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.15 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 19th day of July, 1984.

K. D. Drachand, Chief
Mobile Source Division

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Manufacturer General Motors Corporation Executive Order No. A-6-324 Page 1

Engine Family F1G2.8W8XGZ3 Evaporative Family 5B0-1F

Engine CID (Liters) - Type 173 (2.8) - V6

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
	A	W	19	Celebrity Sedan
			27	Celebrity Coupe
			35	Celebrity Station Wagon
	F	P	87	Camaro Sport Coupe
		S	87	Camaro Berlinetta Sport Coupe
	J	C	35	Cavalier Station Wagon
			69	Cavalier Sedan
		D	35	Cavalier CS Station Wagon
			69	Cavalier CS Sedan
		E	27	Cavalier Type 10 Coupe
			67	Cavalier Type 10 Convertible
			77	Cavalier Type 10 Hatchback Coupe
	X	H	11	Citation II Coupe
		X	08	Citation II Hatchback Coupe
			68	Citation II Hatchback Sedan

DIV	BB	TM	BT	MODEL NAME
2				PONTIAC
	A	F	19	6000 Sedan
			27	6000 Coupe
			35	6000 Wagon
		G	19	6000 LE Sedan
			27	6000 LE Coupe
			35	6000 LE Wagon
		H	19	6000 STE Sedan
	F	S	87	Firebird
		X	87	Firebird S/E

DRIVE AXLE: Front Wheel Drive for A, J and X basic body.
Rear Wheel Drive for F basic body.

ISSUED: REVISIONS:

0707P

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Manufacturer General Motors Corporation Executive Order No. A-6-324 Page 2

Engine Family F1G2.8W8XGZ3 Evaporative Family 5BO-1F

Engine CID (Liters) - Type 173 (2.8) - V6

DIV	BB	TM	BT	MODEL NAME	DIV	BB	TM	BT	MODEL NAME
3				OLDSMOBILE					
	J	C	35	Firenza Cruiser Wagon					
			69	Firenza					
			77	Firenza S					
		D	35	Firenza Cruiser LX Wagon					
			69	Firenza LX					
			77	Firenza SX					
4				BUICK					
	X	B	69	Skylark Custom Sedan					
		C	69	Skylark Limited Sedan					
6				CADILLAC					
	J	G	69	Cimarron Sedan					

DRIVE AXLE: Front Wheel Drive

ISSUED: REVISIONS:

0707P

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GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-324 Page 3

Engine Family F1G2.8W8XGZ3 Exhaust Emission Control System EGR-TWC-CL (EFI)
AIP-EGR-TWC-CL (EFI)(1)

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	RAIL & INJECTOR PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
173	51,51A	Yes	16036971	17085154	17085703,	3250	12	A		19	A-3	UAY	A
	51B		16049391		17085913		12	A		27			BCD
	51C		16036971	17085038									E
	51D		16049391										F
	52,52A	No	16043641	17085154		3125	1	A		27			A
	52B		16049631										C
	52C		16043641	17085038		3250	12	A		19			BE
	52D		16049631				2	A		27			F
	53,53A	Yes	16043651	17085154		3250	1	A		19			A
	53B		16049641				1	A		27			BC
	53C		16043651	17085038									E
	53D		16049641			3375	2	A		19			F
	54,54A	No	16043661	17085154		3125	1	A		27			A
	54B		16049651										C
	54C		16043661	17085038		3250	1	A		19			BE
	54D		16049651										F
	55,55A	Yes	16043671	17085154		3250	1	A		19	A-4		A
	55B		16049661				12	A		27			C
	55C		16043671	17085038									E
	55D		16049661										F

(1) Only for F cars with manual transmission.

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: 07-19-84

REVISIONS: A. Engine codes 51A, 52A, 53A, 54A and 55A added added by RC 51-046 on 07-16-84. B. 1AW19 and 1AW27 were 3125 ETW before RC 51-083. C. Engine codes 51B, 52B, 53B, 54B and 55B added by RC 51-138 on 09-13-84. D. Optional EGR part number added by RC 51-160 on 10-18-84. E. Engine codes with "C" suffix added by RC 51-163 on 11-14-84. F. Engine codes with "D" suffix added by RC 51-181 on 12-03-84.

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GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-324 Page 4

Engine Family F1G2.8W8XGZ3 Exhaust Emission Control System EGR-TWC-CL (EFI)
AIP-EGR-TWC-CL (EFI)(1)

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	RAIL & INJECTOR PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
173	56,56A	No	16043681	17085154	17085703,	3250	12	A		19	A-4	UAY	AB
	56B		16049671		17085913		12	A		27			BCD
	56C		16043681	17085038									E
	56D		16049671										F
	57,57A	Yes	16048061	17085154		3375	2	A		19	A-3		A
	57B		16050011										C
	57C		16048061	17085038									E
	57D		16050011										F
	61,61A	Yes	16043691	17085154		3375	1	A		35			A
	61B		16049681										C
	61C		16043691	17085038		3500	2	A		35			EG
	61D		16049681										F
	62,62A	No	16043701	17085154		3375	12	A		35			A
	62B		16049691										C
	62C		16043701	17085038									E
	62D		16049691										F
	63,63A	Yes	16043711	17085154		3375	1	A		35			A
	63B		16049701										C
	63C		16043711	17085038									E
	63D		16049701										F

(1) Only for F cars with manual transmission.

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: 07-19-84

REVISIONS: A. Engine codes 56A, 57A, 61A, 62A and 63A added by RC 51-046 on 07-16-84. B. 1AW19 and 1AW27 were 3125 ETW before RC 51-083. C. Engine codes 56B, 57B, 61B, 62B and 63B added by RC 51-138 on 09-13-84. D. Optional EGR part number added by RC 51-160 on 10-18-84. E. Engine codes with "C" suffix added by RC 51-163 on 11-14-84. F. Engine codes with "D" suffix added by RC 51-181 on 12-03-84. G. ETW for Pontiac S/W increased to 3500 on 01-22-85.

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Engine Family F1G2.8W8XGZ3 Exhaust Emission Control System EGR-TWC-CL (EFI)
AIP-EGR-TWC-CL (EFI)(1)

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	RAIL & INJECTOR PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
173	64,64A	No	16043721	17085154	17085703,	3375	1	A		35	A-3	UAY	A
	64B		16049711		17085913								CD
	64C		16043721	17085038									E
	64D		16049711										F
	65,65A	Yes	16043891	17085154		3375	2	A		19	A-4		A
	65B		16049881										C
	65C		16043891	17085038		3500	12	A		35			BE
	65D		16049881										F
	66,66A	No	16043901	17085154		3375	12	A		35			A
	66B		16049891										C
	66C		16043901	17085038									E
	66D		16049891										F
	71,71A	Yes	16038501	17085154	17085734	2875	1	J		27	A-3	UCL	A
	71B		16049501				1	J		69			C
	71C		16038501	17085038			3	J	C	69			E
	71D		16049501				1	J		77			F
	71E		16052451				3	J	C	77			G
						3000	1 3	J		35			
							1	J		67			
							3	J	D	69			
							6	J		69			
							3	J	D	77			

(1) Only for F cars with manual transmission.

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: 07-19-84

REVISIONS: A. Engine codes 64A, 65A, 66A and 71A added by RC 51-046 on 07-16-84. B. 1AW35 was 3375 ETW before RC C. Engine codes 64B, 65B, 66B and 71B added by RC 51-138 on 09-13-84. D. Optional EGR part number added by RC 51-160 on 10-18-84. E. Engine codes with "C" suffix added by RC 51-163 on 11-14-84. F. Engine codes with "D" suffix added by RC 51-181 on 12-03-84. G. Engine code 71E added by RC 51-167 on 12-05-84.

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Engine Family F1G2.8W8XGZ3 Exhaust Emission Control System EGR-TWC-CL (EFI)
AIP-EGR-TWC-CL (EFI)(1)

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	RAIL & INJECTOR PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
173	72,72A	No	16038511	17085154	17085734	2750	1	J		27	A-3	UCL	A
	72B		16049511										C
	72C		16038511	17085038		2875	1	J		35			E
	72D		16049511				1 3	J		69			F
	72E		16052471				1 3	J		77			G
						3000	3	J		35			
							1	J		67			
	75,75A	Yes	16038541	17085154	17085735	2750	1	J		27	M-4	UAZ	A
	75B		16049541										C
	75C		16038541	17085038		2875	1	J		35			E
	75D		16049541				1 3	J		69			F
	75E		16052461				1 3	J		77			G
						3000	3	J		35			
							1	J		67			
								J	6	69			

(1) Only for F cars with manual transmission.

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: 07-19-84

REVISIONS: A. 72A and 75A added by RC 51-046 on 07-16-84. C. Engine codes 72B and 75B added by RC 51-138 on 09-13-84. E. Engine codes with "C" suffix added by RC 51-163 on 11-14-84. F. engine codes with "D" suffix added by RC 51-181 on 12-03-84. G. Engine codes 72E and 75E added by RC 51-167 on 12-05-84.

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Manufacturer General Motors Corporation Executive Order No. A-6-324 Page 7

Engine Family F1G2.8W8XGZ3 Exhaust Emission Control System EGR-TWC-CL (EFI)
AIP-EGR-TWC-CL (EFI)(1)

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	RAIL & INJECTOR PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
173	76,76A	No	16038551	17085154	17085735	2750	1	J		27	M-4	UAZ	A
	76B		16049551				1	J		69			C
	76C		16038551	17085038									E
	76D		16049551			2875	1	J		35			F
	76E		16052481				1	J		67			G
							3	J		69			
							1 3	J		77			
						3000	3	J		35			
	81,81A	Yes	16036991	17085154	17085703,	3000	1	X		11	A-3	UAY	A
	81B		16049411		17085913								CD
	81C			17085038		3125	1	X		08			BE
	81D		16052271				1	X		68			F
							4	X		69			
	82,82A	No	16043911	17085154		3000	1	X		08			A
	82B		16049901				1	X		11			C
	82C		16043911	17085038			1	X		68			E
	82D		16049901				4	X		69			F
	83,83A	Yes	16043921	17085154		3000	1	X		11			A
	83B		16049911										C
	83C		16043921	17085038		3125	1	X		08			BE
	83D		16049911				1	X		68			F
							4	X		69			
	84,84A	No	16043931	17085154		3000	1	X		08			A
	84B		16049921				1	X		11			C
	84C		16043931	17085038			1	X		68			E
	84D		16049921				4	X		69			F

(1) Only for F cars with manual transmission.

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: 07-19-84

REVISIONS: A. Engine codes 76A, 81A, 82A, 83A and 84A added by RC 51-046 on 07-16-84. B. 1XX08 was 3000 ETW before RC 51-083. C. Engine codes 76B, 81B, 82B, 83B and 84B added by RC 51-138 on 09-13-84. D. Optional EGR part number added by RC 51-160 on 10-18-84. E. Engine codes with "C" suffix added by RC 51-163 on 11-14-84. F. Engine codes with "D" suffix added by RC 51-181 on 12-03-84. G. Engine code 76E added by RC 51-167 on 12-05-84.

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GASOLINE-FUELED PASSENGER CARS

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Engine Family F1G2.8W8XGZ3 Exhaust Emission Control System EGR-TWC-CL (EFI)
AIP-EGR-TWC-CL (EFI)(1)

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	RAIL & INJECTOR PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
173	87,87A	Yes	16037011	17085154	17085737,	3000	1	X		08	M-4	UAX	A
	87B		16049431		17085914		1	X		11			CD
	87C		16037011	17085038			1	X		68			E
	87D		16049431				4	X		69			F
	88,88A	No	16043941	17085154		2875	1	X		11			A
	88B		16049931										BC
	88C		16043941	17085038		3000	1	X		08			E
	88D		16049931				1	X		68			F
							4	X		69			
	91,91A	Yes	16037031	17085156	17085913	3375	1	F		87	A-4	UCS	A
	91B		16049451										B
	91C		16037031	17085039									E
	91D		16049451										F
	92,92A	No	16043951	17085156		3375	1	F		87			A
	92B		16049941										B
	92C		16043951	17085039									E
	92D		16049941										F
	93,93A	Yes	16043961	17085156		3375	2	F		87		UCT	A
	93B		16049951										B
	93C		16043961	17085039									E
	93D		16049951										F
	94,94A	No	16043971	17085156		3375	2	F		87			A
	94B		16049961										B
	94C		16043971	17085039									E
	94D		16049961										F

(1) Only for F cars with manual transmission.

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: 07-19-84

REVISIONS: A. Engine codes 87A, 88A, 91A, 92A, 93A and 94A added by RC 51-046 on 07-16-84. B. Engine codes 87B, 88B, 91B, 92B, 93B and 94B added by RC 51-138 on 09-13-84. C. Optional EGR part number added by RC 51-160 on 10-18-84. D. Optional EGR part number added by RC 51-160 on 10-18-84. E. Engine codes with "C" suffix added by RC 51-163 on 11-14-84. F. Engine codes with "D" suffix added by RC 51-181 on 12-03-84.

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Engine Family F1G2.8W8XGZ3 Exhaust Emission Control System EGR-TWC-CL (EFI)
AIP-EGR-TWC-CL (EFI)(1)

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	RAIL & INJECTOR PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
173	95,95A	Yes	16037051	17085156	17085914	3375	1	F		87	M-5	UBB	A
	95B		16049471										B
	95C		16037051	17085039									D
	95D		16049471										E
	96,96A	No	16043981	17085156		3250	1	F	P	87			A
	96B		16049971										B
	96C		16043981	17085039		3375	1	F	S	87			D
	96D		16049971										E
	97,97A	Yes	16043991	17085156		3375	2	F		87		UCR	A
	97B		16049981										B
	97C		16043991	17085039									D
	97D		16049981										E
	98,98A	No	16044001	17085156		3375	2	F		87			A
	98B		16049991										B
	98C		16044001	17085039									D
	98D		16049991										E

(1) Only for F cars with manual transmission.

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: 07-19-84

REVISIONS: A. Engine codes 95A, 96A, 97A and 98A added by RC 51-046 on 07-16-84. B. Engine 95B, 96B, 97B and 98B added by RC 51-138 on 09-13-84. D. Engine codes with "C" suffix added by RC 51-163 on 11-14-84. E. Engine codes with "D" suffix added by RC 51-181 on 12-03-84.