(Page 1 of 2)

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	Displace Cubic Inches		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	Carbon Monoxide	Nitrogen Oxides
Grams per Mile	Grams per Mile	Grams per Mile
0.39	7.0	0.7

The following are the certification emission values for the above engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
Grams per Mile	Grams per Mile	Grams per Mile

0.23

1944 - S.

0.5

GENERAL MOTORS CORPORATION

19 J. J. T.

EXECUTIVE ORDER A-6-324 (Page 2 of 2)

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

Form 1

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

`,**'**,

Manufacturer <u>General Motors Corpora</u>	tion Executive Order No.	A-6-324 Page <u>1</u>
Agine Family F1G2.8W8XGZ3	Evaporative Family	5B0-1F
Engine CID (Liters) - Type	173 (2.8) - V6	18-18-19-19-19-19-19-19-19-19-19-19-19-19-19-
ABBREVIATIONS		
Ignition System CA-Centrifugal Advance EEC-Electronic Engine Control EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard <u>Exhaust Emissions Control System</u> AIP-Air Injection-Pump AIV-Air Injection-Valve CL-Closed Loop EGR-Exhaust Gas Recirculation EM-Engine Modification OC-Oxidation Catalyst System	HeadingsAIR COND-Air ConditioningBB-Basic BodyBT-Body TypeDI-Diesel InjectionDIN-Diesel Injector NozzlDIV-DivisionECM-Electronic Control ModerETW-Equivalent Test WeightTLC-Tune-Up Label CodeTNS-TransmissionTM-TrimFuel SystemCFI,CL,DID,DIP,EFI,MFI,TEnV-nVenturi Carburetor	Chamber Valve CFI-Central Fuel Injection les DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber MFI-Mechanical Fuel Injection TC-Turbocharged BI TBI-Throttle Body Injection
TR-Thermal Reactor TWC-Three Way Catalyst System	VV-Variable Venturi	EFI-Electronic Fuel Injection
VIV BB TM BT MODEL NAME	<u>DIV BB TM BT</u>	MODEL NAME
1 CHEVROLET A W 19 Celebrity Sedan 27 Celebrity Coupe 35 Celebrity Station F P 87 Camaro Sport Coupe S 87 Camaro Berlinetta J C 35 Cavalier Station W 69 Cavalier Sedan D 35 Cavalier CS Statio 69 Cavalier CS Sedan E 27 Cavalier Type 10 C 67 Cavalier Type 10 C 77 Cavalier Type 10 C 77 Cavalier Type 10 H Coupe X H 11 Citation II Coupe X 08 Citation II Hatchb 68 Citation II Hatchb	Wagon 35 G 19 Sport Coupe 27 agon 35 H 19 n Wagon F S 87 X 87 oupe onvertible atchback ack Coupe	PONTIAC 6000 Sedan 6000 Coupe 6000 Wagon 6000 LE Sedan 6000 LE Coupe 6000 LE Wagon 6000 STE Sedan Firebird Firebird S/E
DRIVE AXLE: Front Wheel Drive for Rear Wheel Drive for F		
SSUED: REVISIO	NS:	

 $\omega_{i_{2}}$

0707P

•

.

Form 1

	1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET											
Manufacturer General Motors Corporation Executive Order No. <u>A-6-324</u> Pa												
L ngi	ne F	amil	у	F1G2.8W8XGZ3	Evaporative Family	5B0-1F						
Engi	ne C	ID (Lite	rs) - Type	173 (2.8) - V6							
DIV	BB	TM	BT	MODEL NAME	<u>DIV BB TM BT</u>	MODEL	NAME					
3	J	C D	69 77 35 69	OLDSMOBILE Firenza Cruiser Wagon Firenza Firenza S Firenza Cruiser LX Wago Firenza LX Firenza SX	n							
4	X	B C	69 69	BUICK <u>Skylark Custom Sedan</u> Skylark Limited Sedan								
6	J	G	6 <u>9</u>	CADILLAC Cimarron Sedan								

• • •

DRIVE AXLE: Front Wheel Drive



•

.

Manu	facture	r <u>Gene</u>	eral Motors	<u>Corporati</u>	on Executi	ive Ord	ler No.	A	-6-	324	Pag	je	3			
Engi	gine Family <u>F1G2.8W8XGZ3</u> Exhaust Emission Control Syste									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 51B 51C 51D	Yes	<u>16036971</u> <u>16049391</u> <u>16036971</u> 16049391	17085154 17085038	17085703, 17085913	3250	12 12	A A		19 27	A-3	UAY	A BCD E F			
	52,52A 52B 52C 52D	No	16043641 16049631 16043641 16049631	17085154 17085038		3125 3250	1 12 2	A A A		27 19 27			A C BE F			
	53,53A 53B 53C 53D	Yes	16043651 16049641 16043651 16049641	17085154 17085038		3250 3375	1 1 2	A A A		19 27 19			A BC E F			
	54,54A 54B 54C 54D	No	16043661 16049651 16043661 16049651	17085154 17085038		3125 3250	1	A		27 19			A C BE F			
	55,55A 55B 55C 55D	Yes	<u>16043671</u> 16049661 16043671 16049661	17085154 17085038		3250	1 12	A		19 27	A-4		A C F			

(1) Only for F cars with manual transmission.

Comments:	Please ref	one for abbreviations and evaporative emission family identification for to manufacturer's HP lists for correct dyno test HP settings model and equipment.
ISSUED: 0	7-19-84	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.

0707P/26P

1 1

Manu	facture	r <u>Gene</u>	ral Motors	Corporati	<u>on</u> Executi	ve Ord	ler No.	A	-6-3	324	Pag	e	4		
Engi	ngine Family <u>F1G2.8W8XGZ3</u> Exhaust Emission Control Syste									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	T M	BT	TNS	TLC	REV. NOTĖS		
173	56,56A 56B 56C 56D	No	16043681 16049671 16043681 16049671	17085154 17085038	17085703, 17085913	3250	12 12	A A		19 27	A-4	UAY	AB BCD E F		
	57,57A 57B 57C 57D	Yes	16048061 16050011 16048061 16050011	17085154 17085038		3375	2	Ā		19	A-3		A C F		
	61,61A 61B 61C 61D	Yes	<u>16043691</u> 16049681 16043691 16049681	17085154 17085038		3375 3500	1 2	-A-		35 35			A C EG F		
	62,62A 62B 62C 62D	No	16043701 16049691 16043701 16049691	17085154 17085038		3375	12	Ā		35			A C F		
	<u>63,63A</u> 63B 63C 63D	Yes	<u>16043711</u> 16049701 16043711 16049701	17085154		3375	-1	Ā		35			A C F		

(1) Only for F cars with manual transmission.

.

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.	Please refe	e for abbreviations and evaporative emission family identification r to manufacturer's HP lists for correct dyno test HP settings del and equipment.
07070 /260		by RC 51-046 on 07-16-84. B. IAW19 and IAW27 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

0707P/26P

· •

Janu	facture	r <u>Gene</u>	ral Motors	Corporati	<u>on</u> Executi	ve Ord	ler No.	A	<u>-6-</u>	324	_ Pag	e	5
Engi	Engine Family <u>F1G2.8W8XGZ3</u> 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 64B 64C 64D	No	<u>16043721</u> <u>16049711</u> <u>16043721</u> 16049711	17085154 17085038	17085703, 17085913	3375	1	Α		35	A-3	UAY	A CD E F
	65,65A 65B 65C 65D	Yes	<u>16043891</u> <u>16049881</u> <u>16043891</u> 16049881	17085154 17085038		3375 3500	2 12	A		19 35	A-4		A C BE F
	66,66A 66B 66C 66D	No	<u>16043901</u> <u>16049891</u> <u>16043901</u> <u>16049891</u>	17085154 17085038		3375	12	Ā		35			A C F
•	71,71A 71B 71C 71D 71E	Yes	16038501 16049501 16038501 16049501 16052451	17085154 17085038	17085734	2875	$\begin{array}{c}1\\1\\3\\1\\3\end{array}$]]]]	C C	27 69 69 77 77	A-3	UCE	A C E F G
·				:		3000	$\begin{array}{c}1&3\\1\\&3\\&6\\3\end{array}$]]]]	D D	35 67 69 69 77			

(1) Only for F cars with manual transmission.

Please refe	ne for abbreviations and evaporative emission family identification er to manufacturer's HP lists for correct dyno test HP settings odel 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.

.

Manu	Manufacturer General Motors Corporation Executive Order No.								A-6-324			e	6
Engi	Engine Family <u>F1G2.8W8XGZ3</u> 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 72B 72C 72D 72D 72E	No	<u>16038511</u> <u>16049511</u> <u>16038511</u> <u>16049511</u> 16052471	17085154 17085038	17085734	2750 2875 3000	$ 1 \\ 1 \\ 1 \\ 3 \\ 1 \\ 3 \\ 1 3 1 $	J J J J J J		27 35 69 77 35 67	A-3	UCL	A C E F G
-	75,75A 75B 75C 75D 75E	Yes	$\frac{16038541}{16049541}$ $\frac{16038541}{16049541}$ $\frac{16049541}{16052461}$	17085154 17085038	17085735	2750 2875 3000	$ \begin{array}{c} 1\\ 1\\ 1\\ 3\\ 1\\ 3\\ 1\\ 6\\ \end{array} $	ງ ງ ງ ງ		27 35 69 77 35 67 69	M-4	UAZ	A C F G

(1) Only for F cars with manual transmission.

٠.

Comments:	Please refe	e for abbreviations and evaporative emission family identification or to manufacturer's HP lists for correct dyno test HP settings del 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.

0707P/26P

ENG. CODE	AIR COND	ECM	RAIL & INJECTOR	FOD VALVE								
		PART NO.	PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTE
5,76A	No	$\frac{16038551}{16049551}$	17085154	17085735	2750	1 1	J J		27 69	M-4	UAZ	A C F
50 5E		<u>16038351</u> <u>16049551</u> 16052481	11002030		2875	$\begin{array}{c}1\\1\\3\\13\end{array}$]]]		35 67 69 77			C E F G
					3000	3	J		35			
1,81A 18	Yes	<u>16036991</u> 16049411	17085154	17085703, 17085913	3000	1	X		11	A-3	UAY	A C
		16052271	17085038	1/00010	3125	1 1 4	X X X		08 68 69			B F
2,82A 2B 2C	No	$\frac{16043911}{16049901}$ $\frac{16043911}{16043911}$	17085154 17085038		3000	1 1 1 4	X X X X		08 11 68			A C E
	Yes	16043921	17085154		3000	1	- <u>x</u> -		Π			A
<u>BB</u> RC RD		16049911 16043921 16049911	17085038		3125	1 1 4	X X X		08 68 69			C B F
4 <u>,84A</u> 4 <u>B</u> 4 <u>C</u> 4D	No	<u>16043931</u> <u>16049921</u> <u>16043931</u> <u>16049921</u>	17085154 17085038		3000	1 1 1 4	X X X X		08 11 68 69			A C F
	RE RE RE RE RE RE RE RE RE RE	<u>.81A</u> Yes <u>.81A</u> Yes <u>.82A</u> No <u>.82A</u> No <u>.83A</u> Yes <u>.83A</u> Yes <u>.84A</u> No <u>.84A</u> No	Image: Construct of Construction of Constructing of Construction of Construction of Construction of Constructio	$\begin{array}{c cccc} & 16038551 & 17085038 \\ \hline 16049551 & 16052481 \\ \hline 16052481 & 16052481 \\ \hline 16052481 & 17085154 \\ \hline 16049411 & 17085154 \\ \hline 17085038 & 16052271 \\ \hline 17085038 & 16043911 & 17085154 \\ \hline 16049901 & 17085038 \\ \hline 16049911 & 17085038 \\ \hline 16049$	$\begin{array}{c cccc} & 16038551 & 17085038 \\ \hline D & 16049551 \\ \hline B & 16052481 \\ \hline \\ $	$\begin{array}{c cccc} \hline 16038551 & 17085038 \\ \hline 16049551 & 16052481 \\ \hline 16052481 & \hline 3000 \\ \hline $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

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.

0707P/26P

Form 2

Manuf	facture	r <u>Gene</u>	eral Motors	Corporati	<u>on</u> Executi	ve Ord	er No.	Α-	-6-3	24	_ Pag	e	8
Engi	ne Fami	ly <u>F1</u>	<u>G2.8W8XGZ3</u>	_ Exhaust	Emission C	ontrol	System				WC-CL WC-CL		
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 87B 87C 87D	Yes	<u>16037011</u> <u>16049431</u> <u>16037011</u> <u>16049431</u>	17085154 17085038	17085737, 17085914	30 00	1 1 1 4	X X X X		08 11 68 69	M-4	UAX	A CD E F
	88,88A 88B 88C 88D 88D	No	<u>16043941</u> <u>16049931</u> <u>16043941</u> 16049931	17085154 17085038		2875 3000	1 1 1 4	X X X X		11 08 68 69			A BC F
	91,91A 91B 91C 91D	Yes	16037031 16049451 16037031 16049451	17085156 17085039	17085913	3375	1	F	··,	87	A-4	UCS	A B F
•	92,92A 92B 92C 92D	No	$\frac{16043951}{16049941}$ $\frac{16043951}{16043951}$ 16049941	17085156 17085039		3375	1	F		87			A B F
	<u>93,93A</u> 93B 93C 93D	Yes	<u>16043961</u> <u>16049951</u> <u>16043961</u> <u>16049951</u>	17085156 17085039		3375	2	F		87		UCT	A B E F
	<u>94 ,04A</u> 04B 04C 04D	No	16043971 16049961 16043971 16049961	17085156 17085039		3375	2	F		87			A B 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.

0707P/26P

Manu	facture	r <u>Gene</u>	eral Motors	<u>Corporati</u>	<u>on</u> Executi	ive Orc	ler No.	F	-6-	324	_ Pag	je	9
Engi	ne Fami	ly <u>F1</u>	.G2.8W8XGZ3	Exhaust	: Emission C	Control	System				WC-CL WC-CL	(EFI (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 95B 95C 95D	Yes	<u>16037051</u> <u>16049471</u> <u>16037051</u> 16049471	17085156 17085039	17085914	3375	1	F		87	M-5	UBB	A B D E
	96,96A 968	No	<u>16043981</u> 16049971	17085156		3250	1	F	P	87			A B
	960 960 960		<u>16043981</u> 16049971	17085039		3375	1	F	S	87			D E
	97,97A 97B 97C 97D	Yes	16043991 16049981 16043991 16049981	17085156 17085039		3375	2	F		87		UCR	A B D E
•	98,98A 988 980 980 980	No	$\frac{16044001}{16049991}$ $\frac{16044001}{16049991}$	17085156 17085039		3375	2	F		87			A B D 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.

0707P/26P

2 4 4 10 ••••