State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-709 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 Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year General Motors Corporation exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: TGM3.1V8GFEK <u>Displacement</u>: 3.1 Liters (191 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation Three Way Catalytic Converter Heated Oxygen Sensors (two) Sequential Multiport Fuel Injection

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

The certification exhaust emission standards for this engine family in grams per mile are:

Miles_	Non-Methane H <u>ydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Carbon <u>Monoxide (20⁰F)</u>
50,000	0.25	3.4	0.4	10.0
100,000	0.31	4.2	0.6	n/a

The certification exhaust emission values for this engine family in grams per mile are:

Mi <u>les</u>	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Carbon <u>Monoxide (20⁰F)</u>
50,000	0.17	1.8	0.4	7.6
100,000	0.19	2.3	0.5	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model 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" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

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 ______ day of July 1995.

R. B. Summerfield Assistant Division Chief Mobile Source Division

AIR RESOURCES BOARD SUPPLEMENTAL GASOLINE-FUELED PASSENGER

VEHICLE MODELS:

<u>1</u> <u>J</u> <u>C</u> <u>3</u> <u>7</u> (EXAMPLE)

<u> Digit 1 - Selling Division</u>

1 - Chevrolet

2 - Pontiac

3 - Oldsmobile

4 - Buick

6 - Cadillac

8 - Saturn

Digit 2 - Body Designation

- Cutlass Ciera, Cutlass Cruiser, Century, Century Wagon

- Caprice, Caprice Wagon, Roadmaster Wagon, Coachbuilder Wagon,

Roadmaster

- Ninety-Eight, Park Avenue

- Fleetwood, Limousine, Funeral Coach/Hearse

- Eldorado

- Camaro, Firebird/Formula

- Riviera, Aurora

- Bonneville, Eighty-Eight, LeSabre

- Cavalier, Sunfire

- Seville

Ksp - Deville/Concours

- Corsica, Beretta

- Grand Am, Achieva, Skylark - Grand Prix, Regal, Cutlass Supreme, Lumina, Monte Carlo

- Corvette

- Saturn SC, SL, SW

Digit 3 - Trim Level

B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, T, U, V, W, X, Y, Z

Digits 4 & 5 - Body Style

07 - 2Dr Sport Coupe 08 - 2Dr Hatchback Coupe 11 - 2Dr Notchback 15 - 2Dr Station Wagon 19 - 4Dr Sedan 23 - 4Dr Aux. Seat Sedan 27 - 2Dr (Notchback) Coupe 29 - 4Dr Sedan 35 - 4Dr Station Wagon	37 - 2Dr Hardtop Coupe 47 - 2Dr Hardtop Coupe 57 - 2Dr Hardtop Coupe 67 - 2Dr Convertible Coupe 68 - 4Dr Hatchback Sedan 69 - 4Dr (Notchback) Sedan 77 - 2Dr Hatchback Coupe 87 - 2Dr Hatchback Coupe 90 - Commerical Chassis
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ISSUED: ML-TP080

REVISED:

MFR: <u>GENERAL MOTORS CORP.</u>	ENGINE	EAMTIV. T	TGM3 1V8GFFK	EVAP. FA	AMILY: <u>TG</u>	M1058AYMAA
		CA			50S_X_	AB965
ALL ENGINE CODES IN ENGINE				/;		Tier-1 <u>X</u>
EXT 510: 0/(110: =		LEV				ERNATIVE
	LIFE WITH					
12/1 02/100 (20) · · ·			1 MDV2	MDVO		
SINGLE CERT STD FOR MULTI-C			NA TEST	EUEL/C).	INDO	PHASE 2_X_
FUEL TYPE(S): DEDICATED X	GASOLI	NE <u>X</u> :	EMISS TEST			EQUIV
SERVICE ACCUM: STD AMA	MFR	ADP <u>X</u> :	NMOG TES		<u>NA</u>	· —
R/L TEST PROC: NA F	T SOURCE_	_ ;	HYBRID TYPE			CYCLE: NA
ENGINE CONFIGURATION: 14_	V6 <u>_X</u>	V8	DISPLACEM			191_CU. IN.
	VES/CYLIND	ER: 2 <u>X</u>	4 R	ATED HP:		<u>5200</u> RPM
ENGINE LOCATION: FRONT_X		DRIVE:	FWD <u>X</u> RW	D 4	WD-FT	4WD-PT
		GR-TWC-HO2	2S(2)-SFI		<u> </u>	
RLHP/DPA VALUES: SECTION						
ENG	TRANS.	EQUIV.			EGR	CATALYTIC
CODE VEH MODELS	(M5.A4	TEST	PCM PART NO./CA	N TR	SYSTEM PART NO.	CONVERTER PART NO
(LOC) (SEE PAGE 1) 1 1M 1WL69 *1	<u>ETC.)</u> A4/A	<u>WEIGHT</u> 3625	16209020/1621	0254	17096154	24504613.
1,1M 1WL69 *1 1WN69	/11//1	3750	16209020/1621	L0244 *1		25144396
1WW27		3625				
2WJ37 2WJ19		3750				
3WH47		3625 3750				
3WH69 4WB19		3625				
4WB57			16209020/162	27954		
1A,1N			16209020/162	27944 *2		
			16209020/162	3106/		
1B,1P						
1C.1R			16209020/162	38714		
1XB,1XP 4WD19		3750	16209020/162	31944 *2		
2/15/2//			16209020/162	38714 *2		
1XC,1XR			105030501 105			
CARLINE NAME	CARLINE C	<u>ode</u>				
LUMINA/MONTE CARLO GRAND PRIX	12050 33055					
CUTLASS SUPREME	29055					
REGAL	08022					
A MOD DOLLTON AND TAVE VE	HITCHE ADDI	TOATION I	FTW IS 3750			

^{*1} FOR POLICE AND TAXI VEHICLE APPLICATION, ETW IS 3750 *2 FOR POLICE AND TAXI VEHICLE APPLICATIONS ONLY

SSUED: ML-TP080

REVISED: ML-TR019, ML-TR034, ML-TP135, ML-TR055, ML-TR082, ML-TR087

		CHOTHE	EAMTI V. T	GM3 1V8GFFK	EVAP. FAN	11LY: <u>TGM</u>	1058AYMAA
	IERAL MOTORS CORP.		LWITE - T	49S		DS_X_	AB965
ALL ENGIN	IE CODES IN ENGINE	FAMILY:	CA				Tier-1 X
EXH STD:	CA Tier-1 <u>X</u>	TLEV			:		RNATIVE
EVAP STD:	: 50K <u>X</u> USEFU	JL LIFE WITH	I R/L ;	IN-USE EXH ST	D: FULL		
VEH CLASS	S(ES): PC <u>X</u> LDT	[1 LDT2	2 MDV1	MDV2	MDV3	MDV4	_ 1010
SINGLE CE	ERT STD FOR MULTI-	-CLASS ENGIN	NE FAMILY:	<u>NA</u>			DUACE O V
FUEL TYPE		(GASOLII	NE <u>X</u> :	EMISS TEST FL	IEL(S):	INDO	PHASE 2_X
SERVICE A	_ , _ ,		ADP_X_ ;	NMOG TEST	PROC: _	NA_	EQUIV
_		PT SOURCE_		HYBRID TYPE:	<u>NA</u>	APU C	YCLE: <u>NA</u>
R/L TEST			 V8	DISPLACEMEN	NT: <u>3.1</u>	_LITERS/_	<u>191 </u> CU. IN.
ENGINE C	0111 10011	V6 <u>_X</u> LVES/CYLIND	-			<u>160</u> @	5200 RPM
	_			FWD_XRWD_		/D-FT	4WD-PT
ENGINE L	OCATION: FRONT <u>X</u>	_	DRIVE:				
EXHAUST				S(2)-SFI			
RLHP/DPA	values: <u>sectio</u>	N 08.13.02.	<u>00 </u>				
		TDANC	רטווזע			EGR	CATALYTIC
ENG	VEH MODELS	TRANS. (M5.A4	EQUIV. TEST	PCM		SYSTEM	CONVERTER
CODE (LOC)	(SEE PAGE 1)	ETC.)	WEIGHT	PART NO./CAL	<u>IB</u> 1	PART_NO.	PART NO.
		A4/A	3750	16209020/16231	944	17096154	24504613.
?.,2M	1WL69 *1	A4/ A	3/30				
2A.2N				16209020/16238	1/24		

25144396

CARLINE NAME
LUMINA/MONTE CARLO
GRAND PRIX
CUTLASS SUPREME
REGAL

CARLINE CODE
12050
33055
29055
29055
08022

*1 FOR POLICE AND TAXI APPLICATIONS ONLY

TSSUED: ML-TR082

REVISED: ML-TR087

17-TGM3.1V8GFEK-3

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENG	INE FAMILY: TO	<u>GM3.1V8GFEK</u> EVAP.	FAMILY: <u>TG</u>	M1058AYMAA
ALL ENGINE CODES IN ENGINE FAMILY		49S	50S <u>X</u>	AB965
EXH STD: CA Tier-1_X TLEV		ULEV ZEV;	U.S. EPA	Tier-1 <u>X</u>
EVAP STD: 50K_X_ USEFUL LIFE	WITH R/L :	IN-USE EXH STD: F	FULL <u>X</u> ALT	ERNATIVE
		MDV2 MDV3		
SINGLE CERT STD FOR MULTI-CLASS [
FUEL TYPE(S): DEDICATED_X GAS		EMISS TEST FUEL(S): INDO	PHASE 2 <u>X</u>
	MFR ADP_X;	NMOG TEST PROC		EQUIV
	RCE ;	HYBRID TYPE: NA		CYCLE: <u>NA</u>
17 L 1201 111001	<u>X</u> V8	DISPLACEMENT:		<u>191_</u> CU. IN.
	 LINDER: 2 <u>_X</u>		P: <u>155</u> @	
		· 	4WD-FT	
ENGINE LOCATION: FRONT_X_	DRIVE:			_
EXHAUST EMISSION CONTROL SYSTEM:		5(2)-3(1		
RLHP/DPA VALUES: <u>SECTION 08.13</u>	.02.00_			
ENG TRANS	. EQUIV.		EGR	CATALYTIC
CODE VEH MODELS (M5.A	4 TEST	PCM	SYSTEM PART NO.	CONVERTER PART NO.
(LOC) (SEE PAGE 1) ETC.	<u>) WEIGHT</u>	PART NO./CALIB	PART NO.	
5,5M 1LD69 A4/0	3250	16209020/16210194	17096154	10243261. 25144396
1LV37				23144390
1LW37				
5A,5N		16209020/16226514		
5B,5P		16209020/16231904		
35,01		16209020/16234444		
5C,5R		10203020/10234444		
5D.5S		16209020/16238654		
CARLINE NAME CARLI	NE_CODE			
CORSICA	12010			
BERETTA 12	020			
SSUED: ML-TP080	REVISED: ML-7	ΓR019, ML-TR034, ML-	TRO47, ML-TP	135, ML-TR102

C1/11 0101 041 2	INE FAMILY: TLEV EFUL LIFE WITH LDT1 LDT2 TI-CLASS ENGIN D_X_ GASOLIN	CA LEV; I R/L; 2 MDV1 NE FAMILY: NE_X; ADP_X;; V8	49S ULEV ZEV_ IN-USE EXH ST L MDV2 NA EMISS TEST FOR NMOG TEST HYBRID TYPE: DISPLACEME	D: FULL X A MDV3 MDV4 JEL(S): INDO PROC: NA AP NA AP NT: 3.1 LITER TED HP: 160	AB965 PA Tier-1 _X ALTERNATIVE MDV5 PHASE 2_X EQUIV U CYCLE: _NA S/_191_CU. IN. @ _5200 RPM
ENGINE LOCATION: FRONTEXHAUST EMISSION CONTROPORTION CONTROPORTER SECTION CONTROPORTER CONTROP	- X_	DRIVE: GR-TWC-HO2	FWD <u>X</u> RWD PS(2)-SFI	4WD-FT	4WD-PT
ENG CODE (10C) VEH MODELS (SEE PAGE 1) 10. 3AJ35 10M 3AJ69 4AG35	TRANS. (M5.A4 ETC.) A4/C	EQUIV. TEST WEIGHT 3625 3375 3625 3375	PCM PART NO./CAI 16209020/1621		CATALYTIC CONVERTER PART NO. 24503701. 25144396
4AG69		3373	16209020/1623	0154	
10N 10B. 10P			16209020/1623	0054	
10C. 10R			16209020/1623	38624	
CARLINE NAME CIERA SL WAGON CIERA SL CENTURY WAGON CENTURY	<u>CARLINE (</u> 29020 29015 08025 08020				

ISSUED: ML-TP080

REVISED: ML-TR019, ML-TR034, ML-TP135, ML-TR087

MER: GEN	IERAL MOTORS CORP	FNGINE	FAMILY: _T	GM3.1V8GFEK E	.VAP. FAMILY: _]	GM1089AYMAA
	NE CODES IN ENGIN		CA	495	50S <u>X</u>	AB965
EXH STD:	CA Tier-1_X_		LEV			PA Tier-1 <u>X</u>
EVAP STD:		UL LIFE WIT): FULL <u>X</u> AL	_TERNATIVE
					MDV3 MDV4_	
	ERT STD FOR MULTI	· 				
	E(S): DEDICATED_			EMISS TEST FUE	L(S): INDO	PHASE 2 <u>X</u>
			R ADP_X_ ;	NMOG TEST F		EQUIV
SERVICE A		''''' PT SOURCE_		HYBRID TYPE:		CYCLE: NA
R/L TEST	-	1 300KCL_		DISPLACEMEN		/ <u>191</u> CU. IN.
ENGINE CO	-,,,	LVES/CYLING				@ <u>5200</u> RPM
			DRIVE:		4WD-FT	4WD-PT
ENGINE LO	OCATION: FRONT_>			· · · · ·		
	EMISSION CONTROL			<u> </u>		
RLHP/DPA	VALUES: <u>SECTIO</u>	JN U8.13.UZ	. 00			
ENG		TRANS.	EQUIV.	IGNITION	EGR	CATALYTIC
CODE	VEH MODELS	(M5,A4	TEST	(ECM/PCM) PART NO.	SYSTEM PART NO.	CONVERTER PART NO.
<u>(LOC)</u>	(SEE PAGE 1)	<u>ETC.)</u>	<u>WE IGHT</u>			<u></u>
4M	2NE37	A4/C	3250	16210214/BMPP	17096154	10243261. 25144396
	2NW37 2NE69		3375			
	2NW69		0.05.0			
	3NL37 3NL69		3250			
	4NJ37					
	4NJ69					
4A.4N				16227984/BRPT	Γ	
4D 4D				16230584/BSKF)	
4B,4P						
	INE NAME	CARLINE (CODE			
GRAND AI ACHIEVA		33025 29010				
7 10/21 J in the 4 / 1						

ISSUED: ML-TP080

REVISED: ML-TR019, ML-TR034