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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-711 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: TGM3.8V8GKEK Displacement: 3.8 Liters (231 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 Hydrocarbons	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	0.07	1.1	0.2	2.3
100,000	0.07	1.2	0.3	n/a

GENERAL MOTORS CORPORATION

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. GENERAL MOTORS CORPORATION

EXECUTIVE ORDER A-6-711 (Page 3 of 3)

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 $\frac{13^{44}}{4}$ day of July 1995.

R. B. Summerfield Assistant Division Chief Mobile Source Division

(FOR CARB USE ONLY)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET GASOLINE-FUELED PASSENGER CARS

VEHICLE MODELS:

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

Digit 1 - Selling Division

- 1 Chevrolet
- 2 Pontiac
- 3 Oldsmobile
- 4 Buick
- 6 Cadillac
- 8 Saturn

Digit 2 - Body Designation

- Cutlass Ciera, Cutlass Cruiser, Century, Century Wagon A
- Caprice, Caprice Wagon, Roadmaster Wagon, Coachbuilder Wagon, В
- Roadmaster
- Ninety-Eight, Park Avenue С
- Fleetwood, Limousine, Funeral Coach/Hearse D
- E - Eldorado

F

- Camaro, Firebird/Formula
- Ġ - Riviera, Aurora
- Bonneville, Eighty-Eight, LeSabre Cavalier, Sunfire Η
- J
- Seville K
- Ksp Deville/Concours
- Corsica, Beretta L
- Grand Am, Achieva, Skylark N
- Grand Prix, Regal, Cutlass Supreme, Lumina, Monte Carlo W
- Corvette Y
- Saturn SC, SL, SW Ζ

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

ISSUED: ML-TP085

REVISED:

E.O. # A-6-<u>711</u>

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

· · · ·						
-	MFR: <u>GENERAL MOTORS CO</u>	<u>RP.</u> ENGINE FAMILY	: <u>TGM3.8V8G</u>			
	ALL ENGINE CODES IN ENG				AB965	
	EXH STD: CA Tier-1_X	TLEVLEV	ULEV	ZEV; U.S. 8	EPA Tier-1 <u>X</u>	
	EVAP STD: 50K <u>X</u> US					
	VEH CLASS(ES): PC <u>X</u>	LDT1LDT2	MDV1 ME	0V2MDV3MDV4	4 MDV5	
	SINGLE CERT STD FOR MUL					
	FUEL TYPE(S): DEDICATE					
	SERVICE ACCUM: STD AMA	XMFR_ADP	.: NMC	DG TEST PROC: <u>NA</u>	EQUIV	
	R/L TEST PROC: <u>NA</u>	PT SOURCE:				
	ENGINE CONFIGURATION:			PLACEMENT: <u>3.8</u> LITER		
		VALVES/CYLINDER: 2	<u>x</u> 4	RATED HP: <u>205</u>	@ <u>5200</u> RPM	
	ENGINE LOCATION: FRONT	T <u>X</u> DRIV	/E: FWD <u>X</u>	RWD 4WD-FT	4WD-PT	
	EXHAUST EMISSION CONTRO	DL SYSTEM: <u>EGR-TWC-</u>	H02S(2)-SFI			
	RLHP/DPA VALUES: SEC	TION 08.13.02.00				
		TDANC	EQUIV.		EGR	CATALYTIC
	ENG CODE VEH MODELS	TRANS. (M5.A4	TEST	PCM	SYSTEM	CONVERTER
í.	(SEE PAGE 1		<u>WE I GHT</u>	PART NO./CALIB	<u>PART_NO.</u>	<u>PART_NO.</u>
	5.5M 4WB19	A4/2	3750	16209020/16227974	17096199	25162377
	4WD19					
	4WF19 4WF57					
	4WB57		3625			
	5A.5N			16209020/16231504		
	5B.5P			16209020/16232234		
	5C.5R			16209020/16238514		
	5D.5S			16209020/16240644		

CARLINE NAMECARLINE CODEBUICK REGAL08022

ISSUED: ML-TP085

REVISED: ML-TR023. ML-TR039. ML-TP134. ML-TR074. ML-TR097

E.O. # A-6-<u>711</u>

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

ALL ENGIN EXH STD: EVAP STD: VEH CLASS SINGLE CE FUEL TYPE	E CODES IN ENGINE FA CA Tier-1 <u>X</u> TLE 50K <u>X</u> USEFUL I (ES): PC <u>X</u> LDT1_ RT STD FOR MULTI-CLA	AMILY: CA_ EVLEV _IFE WITH R/L_ LDT2 ASS ENGINE FAM GASOLINE_X_	ULEV ; IN-USE MDV1ME ILY: <u>NA</u> ; EMISS	KEK_ EVAP. FAMILY: 19S; 50S_X_ ZEV; U.S. EF E EXH STD: FULL_X_ AI DV2 MDV3 MDV4 TEST_FUEL(S): INDO DG_TEST_PROC:	AB965 PA Tier-1 <u>X</u> LTERNATIVE MDV5 PHASE 2 <u>X</u>	
R/L TEST	PROC: <u>NA</u> PT	SOURCE :	HYBRI	D TYPE: <u>NA</u> APU		
ENGINE CC	NFIGURATION: 14	V6 <u>X</u> V8	DIS	PLACEMENT: <u>3.8</u> LITERS	/ <u>231_</u> CU. IN.	
				RATED HP: 205		
	CATION: FRONT <u>X</u> MISSION CONTROL SYS			RWD 4WD-FT		
	VALUES: <u>SECTION 0</u>					
N <u>e</u> m FBOX					FOD	CATALYTIC
ENG CODE	VEH MODELS	TRANS. (M5,A4	EQUIV. TEST	РСМ	EGR SYSTEM	CONVERTER
<u>(00)</u>	(SEE PAGE 1)	ETC.)	WEIGHT	PART NO./CALIB	<u>PART_NO.</u>	<u>PART NO.</u>
1,1M	3CX69 4CW69	A4/1	3875	16209020/16226484	17096199	25164361
1A,1N				16209020/16231444		
1B,1P				16209020/16231974		
1C.1R				16209020/16234094		
2,2M	3CX69 4CW69	A4/2		16209020/16226494		
2A, 2N				16209020/16230384		
28,2P				16209020/16231994		
2C,2R				16209020/16234104		

CARLINE NAME OLDSMOBILE NINETY EIGHT BUICK PARK AVENUE CARLINE CODE 08022 08040

ISSUED: ML-TP085

REVISED: ML-TR023, ML-TR039, ML-TP134, ML-TR097

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17-TGM3.8V8GKEK-3

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1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

ALL ENG EXH STD EVAP ST VEH CLA SINGLE FUEL TY SERVICE R/L TES	D: 50K <u>X</u> USEF SS(ES): PC <u>X</u> LD CERT STD FOR MULTI PE(S): DEDICATED <u></u> ACCUM: STD AMA <u>X</u> T PROC: <u>NA</u> CONFIGURATION: I4	E FAMILY: TLEV JL LIFE WITH T1 LDT2 -CLASS ENGIN X GASOLIN MFR PT SOURCE V6_X	CA LEV R/L ; 2 MDV NE FAMILY: NE_X ; ADP ; V8	49S ULEV ZEV IN-USE EXH STD 1 MDV2 MA_ EMISS TEST FUE NMOG TEST P HYBRID TYPE: DISPLACEMENT	50S <u>X</u> : U.S. EP, : FULL <u>X</u> AL MDV3MDV4 L(S): INDO ROC: <u>NA</u> <u>NA</u> APU : <u>3.8</u> LITERS/	AB965 A Tier-1 <u>X</u> TERNATIVE MDV5 PHASE 2 <u>X</u> EQUIV CYCLE: <u>NA</u> 231_CU. IN.
ENGINE		LVES/CYLINDE	<u>R: 2 X</u> DRIVE:	4 RATE FWD RWD_X		<u>5200</u> RPM 4WD-PT
	LOCATION: FRONT <u>X</u> EMISSION CONTROL	-			4WD-11	4WD-11
	A VALUES: SECTIO					
ENG CODE (LOC)	VEH MODELS (SEE PAGE 1)	TRANS. (M5,A4 _ETC.)	EQUIV. TEST <u>WEIGHT</u>	PCM PART_NO./CALIB	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART_NO.
	1FP87 2FS87 1FP87	A4/30	3740 3875	16177150/1622799	4 17094185, 17096198, 17095163	25165218
7A 7B 7C	2FS67			16177150/1623059 16177150/1623247 16177150/1623567	4	
8	1FP87 2FS87 1FP67	A4/31	3750 3875	16177150/1622807	74 17094185, 17095163, 17096198	25162001. 25165218
8A 8B 8C	2FS67			16177150/1623060 16177150/1623288 16177150/1623888	34	
9	1FP87	M5/49	3625	16177150/1622810)4	25162001
	2FS87 1FP67		3875			
9A 9B 9C	2FS67			16177150/1623061 16177150/1623220 16177150/1623837)4	
CHEVROL	<u>INE NAME</u> ET CAMARO C FIREBIRD	<u>CARLINE C</u> 12025 33020				
ISSUED:	: ML-TP085	REVISED	: ML-TRO	23, ML-TR039, ML-1	TP134, ML-TR086	
					17- T (M3.8V8GKEK-4

E.O. # A-6- 711

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

ALL ENGINE EXH STD: (EVAP STD: VEH CLASS() SINGLE CER FUEL TYPE() SERVICE AC R/L TEST P ENGINE CON ENGINE LOC EXHAUST EM	CODES IN ENGINE FA CA Tier-1_X TLE 50K_X USEFUL L ES): PC_X LDT1 T STD FOR MULTI-CLA S): DEDICATED_X CUM: STD AMA_X ROC: <u>NA</u> PT FIGURATION: I4 VALVES	MILY: CA VLEV IFE WITH R/L LDT2 SS ENGINE FAM GASOLINE_X MFR ADP SOURCE: V6_XV8 G/CYLINDER: 2 DRI TEM:	4 : IN-USE MDV1MD ILY: <u></u> : EMISS : NMC HYBRIC . DISF VE: FWD_X	ZEV; U.S. EM EXH STD: FULL_XAM V2MDV3MDV4 TEST FUEL(S): INDO G TEST PROC:NA O TYPE:NAAPU PLACEMENT:3.8_LITERS RATED HP:205 RWD4WD-FT	AB965 PA Tier-1 <u>X</u> LTERNATIVE MDV5 PHASE 2 <u>X</u> EQUIV CYCLE: <u>NA</u> / <u>231</u> CU. IN. @ <u>5200</u> RPM	
ENG CODE C <u>QC)</u>	VEH MODELS (SEE PAGE 1)	RANS. (M5,A4 _ETC.)	EQUIV. TEST <u>WEIGHT</u>	PCM PART_NO./CALIB	EGR SYSTEM <u>PART_NO.</u>	CATALYTIC CONVERTER PART_NO.
6	4GD07	A4/2	4000	16209020/16226504	17096199	25164363
6A				16209020/16230394		
6B				16209020/16232024		
6C				16209020/16234114		

<u>CARLINE NAME</u> <u>CARLINE CODE</u> BUICK RIVIERA 08045

ISSUED: ML-TP085

REVISED: ML-TR023, ML-TR039, ML-TP134, ML-TR097

E.O. # A-6-<u>711-A</u>

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1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

R: <u>GENERAL MOTORS CORP</u> ALL ENGINE CODES IN ENGINE FA EXH STD: CA Tier-1 <u>X</u> TLE EVAP STD: 50K USEFUL L VEH CLASS(ES): PC <u>X</u> LDT1 SINGLE CERT STD FOR MULTI-CLA FUEL TYPE(S): DEDICATED <u>X</u> SERVICE ACCUM: STD AMA <u>X</u> R/L TEST PROC: PT ENGINE CONFIGURATION: I4	MILY: CA_ VLEV IFE WITH R/L_X LDT2 ASS ENGINE FAMI GASOLINE_X_ : MFR ADP SOURCE_X_ : V6_XV8	ULEV : IN-USE MDV1 MC LY: <u>NA</u> EMISS .: NMC HYBRII DIS	H9S; 50S_X ZEV; U.S. EI E_EXH_STD: FULL_XA DV2MDV3MDV4 MDV4 TEST_FUEL(S): IND0 DG_TEST_PROC: A D_TYPE: AAPU PLACEMENT: 3.8_LITERS	AB965 PA Tier-1 <u>X</u> LTERNATIVE MDV5 PHASE 2 <u>X</u> EQUIV CYCLE: <u>NA</u>	
VALVE			RATED HP: 205		
ENGINE LOCATION: FRONT_X_	DRIV	/E: FWD <u>X</u>	RWD 4WD-FT	4WD-PT	
EXHAUST EMISSION CONTROL SYS	TEM: EGR-TWC-	H02S(2)-SFI			
RLHP/DPA VALUES: <u>SECTION O</u>	8.13.02.00				
ENG CODE VEH MODELS (LOC) (SEE PAGE 1)	TRANS . (M5 . A4 	EQUIV. TEST WEIGHT	PCM PART_NO./CALIB	EGR SYSTEM <u>PART_NO,</u>	CATALYTIC CONVERTER <u>PART NO.</u>
3M 2HX69 3HN69 3HY69 4HP69 4HR69	A4/1	3750	16209020/16228044	17095163. 17096199	
3A, 3N 3B, 3P 3C, 3R			16209020/16231524 16209020/16232044 16209020/16231234		
4.4M 2HZ69 2HX69 3HN69 3HY69 4HP69 4HR69	A4/2	3875 3750	16209020/16228054 16209020/16228064		
4A,4N			16209020/16230414 16209020/16231464		
4B.4P			16209020/16232074 16209020/16232094		
4C.4R			16209020/16234144 16209020/16234154		
CARLINE NAME PONTIAC BONNEVILLE PLDSMOBILE EIGHTY EIGHT ICK LESABRE	<u>CARLINE COU</u> 33045 29025 08030				
ISSUED: ML-TP085	REVISED: ML	-TR023, ML-T	R035, ML-TR039, ML-TP13	34, ML-TR097	
				17-TGM3.8	V8GKEK-6