State of California AIR RESOURCES BOARD

EXECUTIVE ORDER P-6-24 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 1988 model-year General Motors Corporation federally-certified emission control systems are certified for sale in California as described below for gasoline-powered passenger cars:

Engine Family	Displacement Liters (Cubic Inches)		Exhaust Emission Control Systems (Special Features)		
J1G2.8V8XRZ8	2.8V8XRZ8 3.1 (191)		Exhaust Gas Recirculation Three-Way Catalyst Oxygen Sensor (Electronic Port Fuel Injection)		

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

The following are the emission standards for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides		
Grams per Mile	Grams per Mile	Grams per Mile		
	•			
0.41	3.4	1.0		

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

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
Grams per Mile	Grams per Mile	<u>Grams per Mile</u>
0.33	3.0	0.8

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for FIII 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 "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Adminsitrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the Executive Officer has been provided evidence of federal certification of vehicle models listed in the attachments which are not available as California-certified models.

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate that the vehicle manufacturer has sufficient emissions credits for its estimated California sales of federally-certified 1988 model-year vehicles using the "Guidelines for Certification of 1983 and Subsequent Model-Year Federally Certified Light-Duty Motor Vehicles For Sale in California" (Title 13, California Administrative Code, Section 1960.5).

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 regulations (Title 13, California Administrative Code, 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 5 day of January, 1988.

K. D. Drachand, Chief Mobile Source Division

17-J1G2.8V8XRZ8-1A

(For CARB Use Only)

(1988)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: General Motors Corporation

Executive Order No.: P-6-24

Engine Family: J1G2.8V8XRZ8

Evaporative Family: JBO-1K

Engine Displacement Liters (Cubic Inches) - Type: 3.1 (191) - V6

Exhaust Emission Control System (Special Features): EGR. TWC, OS (EPFI)

ABBREVIATIONS:

Ignition System CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard

Fuel System CCI, CL, DID, DIP, EFI, MFI ___nVenturi Carburetor VV-Variable Venturi

Other Abbreviations A/C-Air Conditioning CID Cubic Inch Displacement ETW-Equivalent Test Weight FC Forward Control HD-Heavy Duty RI-Rail & Injector RWD-Rear Wheel Drive TBI-Throttle Body Injection 4x2-Two Wheel Drive 4x4-Four Wheel Drive 6x4-Four Wheel Drive

Exhaust Emission Control System AIP-Air Injection Pump AIV-Air Injection Valve EGR-Exhaust Gas Recirculation EIC-Electronic Injection Control EM-Engine Modification DBC-Dual Bed Catalyst HOS-Heated Oxygen Sensor OC-Oxidation Catalyst OS-Oxygen Sensor SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical TR-Thermal Reactor TWC-Three-Way Catalyst WUOC-Warm-up Oxidation Catalyst WUTWC-Warm-up Three-Way Catalyst

Special Features CCV-Combustion Chamber Valve CFI-Central Fuel Injection DID-Diesel Injection-Direct DIP-Diesel Injection-Prechamber EFI-Electronic Fuel Injection IC-Intercooler/Aftercooler MFI-Mechanical Fuel Injection OBD-On Board Diagnostics TC-Turbocharger

ISSUED: 01-15-88

REV. NO.:

324T/

(For CARB Use Only) (1988)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET GASOLINE-FUELED PASSENGER CARS

Executive Order No. P-6-24

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AFUTCE MODER2:	1 J U 2_7 (EXAMPLE)			
Digit 1 Selling Division		Designation		
1-Chevrolet [2-Pontiac] 3-Oldsmobile 4-Buick 6-Cadillac	A—Celebrity, 6000, Cutlass Ciera, Cutlass Cruiser, Century B—Caprice, Safari Wagon, Custom Cruiser, LeSabre/Electra Wagon C—Ninety-Eight Regency, Electra, DeVille, Fleetwood, Limousine D—Brougham E—Toronado, Riviera, Eldorado, Reatta F—Camaro, Firebird, Trans Am, Formula G—Monte Carlo, El Camino, Caballero H—Bonneville, Delta 88 Royale, LeSabre J—Cavalier, Sunbird, Firenza, Skyhawk, Cimarron K—Seville L—Corsica, Beretta N—Grand Am, Calais, Somerset/Skylark P—Fiero T—Lemans V—Allante H—Grand Prix, Regal, Cutlass Supreme Y—Corvette Z—Commercial Chassis			
Digit 3 <u>Trim Level</u>	Digits 4 & 5 -	- Body Style		
	07-2Dr Sport Coupe 08-2Dr Hatchback Coupe 11-2Dr Notchback Coupe/Sedan 19-4Dr Sedan 23-4Dr Auxiliary Seat Sedan 27-2Dr (Notchback) Coupe 33-4Dr Auxiliary Seat 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 80-2Dr Sedan Pickup 87-2Dr Hatchback Coupe 90-Commercial Chassis 97-2Dr Hardtop Coupe		
Engine: Front X	Mid Rear			
Drive: FWD	RWD 4WD Full TimeX	4WD Part Time		
ISSUED: 01-15-88	REV. NO.:			

17-J1G2.8V8XRZ8-3A

(For CARB Use Only)

(1988)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS_X LIGHT DUTY TRUCKS___ MEDIUM DUTY VEHICLES___ GAS_X_ DIESEL___ Liters (CID): 3.1 (191) Type: V6 Executive Order No. P-6-24

ENG CODE	VEH MODELS	TRANS TYPE	ETW	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM () PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
10	2AH19	A3	3625	16082151	17087247	17087106	25104021

See page one for abbreviations and family information. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for Comments: testing.

*^SUED: 01-15-88

REV. NO.:

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