(Page 1 of 2)

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-409 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 exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displac Liters (Cub		Exhaust Emission Control Systems (Special Features)
J1G5.OW4NEA6	INEA6 5.0 (305)		Air Injection-Pump Exhaust Gas Recirculation Dual Bed Catalyst Oxygen Sensor (On-Board Diagnostics)

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	<u>Grams per mile</u>
0.39	7.0	0.7

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

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
<u>Grams per Mile</u>	Grams per Mile	Grams per Mile
0.24	4.8	0.4

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

GENERAL MOTORS CORPORATION

EXECUTIVE ORDER A-6-409 (Page 2 of 2)

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 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 Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s] ..." (Title 13, California Administrative Code, Section 1968) 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 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 3^{14}

day of March, 1987.

K. D. Drachand, Chief Mobile Source Division

17-J1G5.0W4NEA6-1A

(For CARB Use Only)

(1988)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer:General Motors CorporationExecutive Order No.:A-6-409Engine Family:J1G5.OW4NEA6Evaporative Family:JB4H-18Engine Displacement Liters (Cubic Inches) - Type:5.0 (305) - V8Exhaust Emission Control System (Special Features):AIP, EGR, OS, DBC, (OBD)

ABBREVIATIONS:

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

<u>Yuel System</u> CFI, CL, DID, DIP, EFI, MFI nV-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: 02-06-87

REV. NO.: 001

0236T/25T

17-J1G5.0H4NEA6-2A

(For CARB Use Only) (1988)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET GASOLINE-FUELED PASSENGER CARS

Executive Order No. A-6-409

1 J U 2 7 (EXAMPLE)

VEHICLE MODELS:

Digit 1 <u>Selling Division</u>

1-Chevrolet

3-Oldsmobile

2-Pontiac

6-Cadillac

4-Buick

Digit 2 - Body Designation A-Celebrity, 6000, Cutlass Ciera, Cutlass Cruiser, Century B-Caprice, Safari Wagon, Custom Cruiser, LeSabre/Électra Wagon C-Ninety-Eight Regency, Electra, DeVille, Fleetwood, Limousine D-Brougham E-Toronado, Riviera, Eldorado 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 M-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

Drive: RWD

UED: 02-06-87

REV. NO.:

0236T/25T

17-J1G5.0W4NEA6-3A

(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): 5.0 (305)

Type: V8

Executive Order No. A-6-409

ENG CODE	VEH MODELS	TRANS TYPE	ETW	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (4V) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
51	1 BN47 1 BL69 1 BN69 1 BU69	A-4	4250	16050371	17087130	17084737	25057843
55	1 BL35 1 BN35		4500	16050391		17084738	
57	1BL35 1BN35			16050401			
ادَ -	1GZ37 1GW80 1GW80+Z88		3750 3875	16050671	. ^{- م} ر سر . 	17084735	n star Angelsen Angelsen
63	1GZ37 1GW80 1GW80+Z88		3750 3875	16050681			
65	1GZ37			16050691	17087129	17084737	25057849

equipment. If two test weights are listed, the lower weight will be used for testing.		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 testing.
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TSSUED: 02-06-87 REV. NO.: 0

0236T/25T

17-J3G2.5T5TEGX-3.1A

(For CARB Use Only)

(1988)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS_____LIGHT DUTY TRUCKS_X____MEDIUM DUTY VEHICLES_____GAS_X__DIESEL____

Liters (CID): 2.5 (151) Type: I-4 Executive Order No. A-6-411

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ENG CODE	VEH MODELS	TRANS TYPE	ETW	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
3A	S10603+E63 S10803+E63 S10653+E63 S10516	A4	3000 3125 3250 3375	16088441	17087282	17087252	25103222
4 A	S10603+E63 S10803+E63 S10653+E63 S10516		3000 3125 3250 3500		. ·		۰,
5A	T10603+E63 T10803+E63 T10653+E63	·	3625	16086771			
n î î î ê.	T10516			- 	in an sin suite Shaan shi sa sa san i	는 프로그는 영국 관일을 가능 이 이름은 프로그는 한 이를 통해	

Comments:	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
	testing.

REV. NO.: 005 SSUED: 004

J268T/25T