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C | P ...

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-427 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 1989 model-year General Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	•	lacement Cubic Inches)	Exhaust Emission Control Systems (Special Features)		
K1G2.0W5JFH6	2.0	(122)	Exhaust Gas Recirculation Three-Way Catalyst Oxygen Sensor (Central 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)
0.39	7.0	0.4

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

Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0.19	1.4	0.4

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 vehicle models listed have been granted an exemption from compliance with the requirements of the "Maifunction 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.

K. D. Drachand, Chief Mobile Source Division

17-K1G2.OW5JFH6-1A

(For CARB Use Only)

(1989)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: General Motors Corporation

Executive Order No.: A-6-427

Engine Family: K1G2.0W5JFH6

Evaporative Family: KAO-1H

Engine Displacement Liters (Cubic Inches) - Type: 2.0 (122) - I4

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

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
CFI,DID,DIP,EPFI,HOS,MPFI,OS,SFI
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
FWD-Front Wheel Drive
4WD-Four 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 (Diesel Only)
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
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 or Throttle
Body Injection
DID-Diesel Injection-Direct
DIP-Diesel Injection-Prechamber
EPFI-Electronic Port Fuel Injection
IC-Intercooler/Aftercooler
MPFI-Mechanical Port Fuel Injection
OBD-On-Board Diagnostics
SC-Supercharger
SFI-Sequential Fuel Injection
TC-Turbocharger

ISSUED: 02-08-88

REV. NO.: 001

01947/

17-K1G2.OW5JFH6-Index 1A

(For CARB Use Only)

(1989)

SECTION 17.00.00.00

C-P-C SUPPLEMENTAL DATA AND CERTIFICATION REVIEW SHEETS

Section and Page No.	Rev. No. <u>or Date</u>	Item
17-K1G2.OW5JFH6-Index 1A	006	Table of Contents
17-K1G2.0W5JFH6-1A	001	Supplemental Data Sheet
17-K1G2.0W5JFH6-2A	02-08-88	Supplemental Data Sheet
17-K1G2.0W5JFH6-3A	006	Supplemental Data Sheet
17-K1G2.OW5JFH6-3.1A	006	Supplemental Data Sheet
17-K1G2.OW5JFH6-4A	001	Certification Review Sheet

NOTES:

- (1) See page one for abbreviations and family information.
- (2) Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment.
- (3) If two test weights are listed, the lower weight will be used for testing.
- (4) Letter derivative codes are the same as corresponding numeric codes except as indicated.

ISSUED: 02-08-88 REV. NO.: 001
002 (RC K1-022)
003
004 (RC K1-111)
005 (RC K1-118)
006

17-K1G2.OM5JFH6-2A

(For CARB Use Only) (1989)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET GASOLINE-FUELED PASSENGER CARS

Executive Order No. A-6-427

VEHICLE MODELS:

1 J U 2 7 (EXAMPLE)

1	Digi	t	1	
<u>Sell</u>	ing	Di	<u>vi</u>	<u>sion</u>

Digit 2 - Body Designation

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

A-Celebrity, 6000, Cutlass Ciera, Cutlass Cruiser, Century B-Caprice, Safari Hagon, 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

W-Grand Prix, Regal, Cutlass Supreme

Y-Corvette

Z-Commercial Chassis

Digit 3 Trim Level

Digits 4 & 5 - Body Style

Hardtop Coupe
Hardtop Coupe
Convertible Coupe
Hatchback Sedan
(Notchback) Sedan
Hatchback Coupe
Sedan Pickup
Hatchback Coupe
nercial Chassis
Hardtop Coupe

Engine: Front

Drive: FWD

SSUED: 02-08-88

REV. NO.:

0194V/

17-K1G2.0W5JFH6-3A

(For CARB Use Only)

(1989)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS X LIGHT DUTY TRUCKS MEDIUM DUTY VEHICLES GAS X DIESEL

Liters (CID): 2.0 (122)

Type: I4

Executive Order No. A-6-427

ENG CODE	VEH MODELS	TRANS TYPE	ETW	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (CFI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
51	2JB37 2JD37 2JB69 2JD69 2JD35 2JU37 2JU67	A3	2875 3125	16081981	17088022	17088107	25103080
52	2JB37 2JD69 2JU37 2JB69 2JD35 2JD37 2JU67	M5	2875	16082001		17088108	
53	2JB37 2JU37 2JD69 2JB69 2JD35 2JD37 2JU67	А3	2875 3125	16081981		17088107	
54	2JB37 2JU37 2JD37 2JB69 2JD69 2JD35 2JU67	M5	2750 3000	16082001		17088108	

ISSUED: 02-08-88

REV. NO.: 003, 005, 006

PW016-4

17-K1G2.0W5JFH6-3.1A

(For CARB Use Only)

(1989)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS_X LIGHT DUTY TRUCKS___ MEDIUM DUTY VEHICLES___ GAS_X DIESEL__

Liters (CID): 2.0 (122) Type: I4

Executive Order No. A-6-427

ENG CODE	VEH MODELS	TRANS TYPE	ETW	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (CFI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
51A	2JB37 2JD37 2JB69 2JD69 2JD35 2JU37	А3	2875	16125931	17089061, 17089106	17089050	25103080
	2JU67		3125				
52A	2JB37 2JD69 2JU37 2JB69 2JD35 2JD37	M5	2875	16125951		17089051	
	2JU67		3000				
53A	2JB37 2JU37 2JD69 2JB69 2JD35 2JD37	А3	2875	16125931		17089050	
	2JU67		3125				
54A	2JB37 2JU37 2JD37 2JB69 2JD69 2JD35	M5	2750	16125951		17089051	
	2JU67		3000				

ISSUED: 002

REV. NO.: 003, 004, 005, 006

?W016-4