

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-160
Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Sections 43100, 43102, 43103, and 43835; 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 General Motors Corporation exhaust emission control systems are certified as described below for 1979 model-year gasoline-powered passenger cars:

<u>Engine Family</u>	<u>Displacement Cubic Inches</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
940E2CYU	231	Exhaust Gas Recirculation Three Way Catalyst

Vehicle Models, Transmissions, Engine Codes and Evaporative Emission Control Families as listed on attachments.

The following are the certification emission values to be listed on the window decal required by California Assembly-Line Test Procedures for 1979 model-year vehicles:

<u>Engine Family</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
940E2CYU	0.28	4.0	1.3

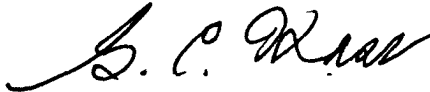
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles except Motorcycles".

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.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Department of Motor Vehicles and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 8 day of March, 1979.



G. C. Hass, Chief
Vehicle Emissions Control Division

1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Executive Order No. A-6-160 Page 1

Engine Family 940E2CYU Engine (CID) 231

Evaporative Family 9B3-4

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
 EI-Electronic Ignition
 ESAC
 VA-Vacuum Advance
 VR-Vacuum Retard

Exhaust Emissions Control System

AI-Air Injection
 CCAV-Comb. Chamber Air Valve
 EFI-Electronic Fuel Injection
 EGR-Exhaust Gas Recirculation
 EM-Engine Modification

OC-Oxidation Catalyst
 PAI-Pulse Air Injection
 TC-Turbo Charged
 TR-Thermal Reactor
 TWC-Three Way Catalyst
 (Feedback Control)
 WOC-Warm-up Oxidation
 Catalyst

Fuel System

EFI, MFI
 nV-nVenturi Carburetor
 VV-Variable Venturi

ESAC-Electronic Spark Advance
 Control
 MFI-Mechanical Fuel Injection

Division
 Basic Body
 Trim
 Body Type

Division
 Basic Body
 Trim
 Body Type

Chevrolet
 1 A T 19 Malibu Sedan
 27 Malibu Notchback Coupe
 35 Malibu Station Wagon
 W 19 Malibu Classic Sedan
 27 Malibu Classic Notchback Coupe
 35 Malibu Classic Station Wagon
 80 El Camino Pickup Delivery
 80 Caballero Pickup Delivery (1)
 Z 37 Monte Carlo Sport Coupe

Oldsmobile
 3 A G 09 Cutlass Salon Sedan
 35 Cutlass Cruiser
 87 Cutlass Salon Coupe
 H 35 Cutlass Brougham Cruiser
 J 09 Cutlass Salon Brougham Sedan
 87 Cutlass Salon Brougham Coupe
 K 47 Cutlass Calais Coupe
 M 47 Cutlass Supreme Brougham Coupe
 R 47 Cutlass Supreme Coupe

Pontiac
 2 A D 19 Lemans Sedan
 27 Lemans Coupe
 35 Lemans Safari Station Wagon
 F 19 Grand Lemans Sedan
 27 Grand Lemans Coupe
 35 Grand Lemans Safari Station Wagon
 G 19 Grand AM Sedan
 27 Grand AM Coupe
 G J 37 Grand Prix
 K 37 Grand Prix LJ

Buick
 4 A E 09 Century Special Sedan
 35 Century Special Wagon
 87 Century Special Coupe
 G 87 Century Sport Coupe
 H 09 Century Custom Sedan
 35 Century Custom Wagon
 87 Century Custom Coupe
 J 47 Regal Coupe
 L 09 Century Limited Sedan
 87 Century Limited Coupe
 M 47 Regal Limited Coupe

Issued: 030879. Model 1AW35 added per
 GM letter ML-9G287, on 041679.

(1) Sold as GMC model.

AIR RESOURCES BOARD 1979 SUPPLEMENTAL DATA SHEET - GM FORMAT

Passenger Cars

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-160

Pg. 2

Engine Family 940E2CYU Engine CID 231 Transm. A-3

Exhaust Emission Control System EGR-TWC +10% (A/C) Yes No

Eng. Code	Air Cond.	Ign. Syst. EI, CA, VA, VR Dist. Part No.	Fuel System 2V Carb. Part No.	EGR Valve Part No.	Inertia Wt. Class	Divisions	Basic Body	Trim	Body Type	Trans- mission	Tune-up Label & Page No.	Rev. Notes
1	W or WO	Delco Remy 1110772	Rochester 17059496	17060894 17063970	3500	3 4	A		09	A-3	JV 3	B A
						1 2	A	19				
						1 2	A	27				
						1 2 3 4	A	35				
						1	A	37				
						3 4	A	47				
						1	A	80				
						3 4	A	87				
						2	G	37				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model, equipment and inertia weight class.

Date of Issue: 030879 Revisions: A. Opt. EGR valve PN added by RC 94-165, on 041679. B. Tune up label BJ corrected to JV by letter ML-9C081, on 112079.

Manufacturer: General Motors Corporation

Executive Order No. A-6-160 Pg. 3

3.8L
V6-2300
883-4
VEHICLE EMISSION CONTROL
INFORMATION
GENERAL MOTORS CORPORATION



- SET PARKING BRAKE AND BLOCK WHEELS.
WANE ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE. CHOKE OPEN, AIR CLEANER ON, AND WANE ADJUSTABLE, AIR CONDITIONING OFF. PLUG DISCONNECTED VACUUM FITTINGS AND/OR HOSES.
1. DISCONNECT AND PLUG BOTH DISTRIBUTOR VACUUM HOSES FROM DISTRIBUTOR VACUUM CAN, EGR HOSE TO EGR VALVE AND PURGE HOSE TO VAPOR CANISTER.
 2. SET THE TIMING AT SPECIFIED R.P.M.
 3. DISCONNECT CARBURETOR CLOSED LOOP SOLENOID WIRE, ADJUST CARBURETOR SPEED SCREW TO SPECIFIED R.P.M. IN DRIVE. ON NON AIR CONDITIONED CARS, RECONNECT BOTH HOSES TO DISTRIBUTOR VACUUM CAN AND WIRE TO CLOSED LOOP SOLENOID.
 4. ON AIR CONDITIONED CARS, AFTER COMPLETING THE ABOVE ADJUSTMENTS, TURN A/C ON. DISCONNECT ELECTRICAL CONNECTOR AT A/C COMPRESSOR CLUTCH. MANUALLY EXTEND SOLENOID SCREW AND ADJUST TO SPECIFIED R.P.M. IN DRIVE. RECONNECT BOTH HOSES TO THE DISTRIBUTOR VACUUM CAN AND WIRE TO CLOSED LOOP SOLENOID.
 5. WITH A/C OFF, DISCONNECT WIRE TO SWITCH IN THERMOSTAT HOUSING AND GROUND THE WIRE WITH A JUMPER. SET FIRST IDLE ON HIGH STEP. ADJUST FIRST IDLE SCREW TO SPECIFIED R.P.M. IN PARK. REMOVE GROUND JUMPER AND RECONNECT WIRE TO SWITCH.
 6. RECONNECT CANISTER, AND EGR VALVE HOSES.

SEE SERVICE MANUAL AND MAINTENANCE SCHEDULE 11 FOR ADDITIONAL INFORMATION.

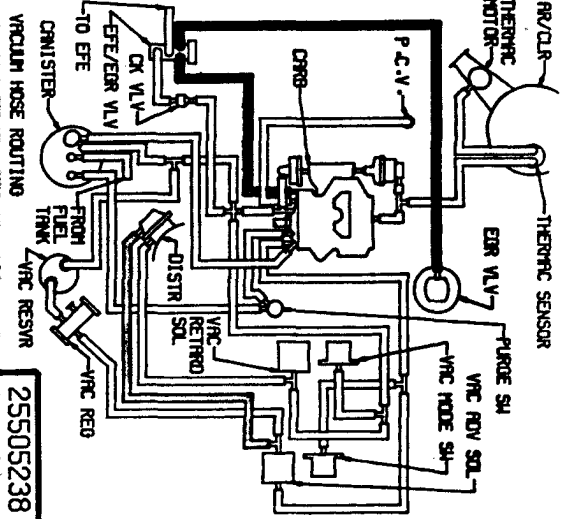
THIS VEHICLE CONFORMS TO U.S. EPA AND CALIFORNIA REGULATIONS APPLICABLE TO 1979 MODEL YEAR NEW PASSENGER CARS.

CATALYST

EGR-EYE LOW ALTITUDE CERTIFICATION TIMING (*B-1-D-C. * RPM)	TRANSMISSION AUTOMATIC 15 * 620
TYPE RPM	RATIOX/RATIOX 400 INCHES
CARBURETOR SCREEN (RPM)	620 (DRIVE)
FIRST IDLE SCREEN (RPM)	2200 (PARK)
SOLENOID SCREEN (RPM)	690 (DRIVE)

IDLE MIXTURE SCREWS ARE PRESET AND SERVICED AT FACTORY. PROVISION FOR ADJUSTMENT DURING TUNE-UP IS NOT PROVIDED.

FOR MAJOR REPAIR, ADJUSTING MIXTURE SETTING BY OTHER THAN APPROVED SERVICE MANUAL PROCEDURE MAY VIOLATE FEDERAL AND/OR STATE LAWS.



25505238

Label BJ replaced by Label JV, by Letter ML-9C081, on 112079.