

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-154  
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>
940E4DVY	231	Air Injection Exhaust Gas Recirculation Oxidation Catalyst (Turbocharged) (Electronic Spark Advance Control)

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>
940E4DVY	0.38	4.8	1.5

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.

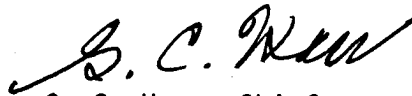
GENERAL MOTORS CORPORATION

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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 28 day of September, 1978.



G. C. Hass, Chief  
Vehicle Emissions Control Division

1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corp. Executive Order No. A-6-154 Page 1

Engine Family 940E4DVY Engine (CID) 231

ABBREVIATIONS

Ignition System

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

Fuel System

EFI, MFI  
 nV-nVenturi Carburetor  
 VV-Variable Venturi

Exhaust Emissions Control System

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

ESAC-Electronic Spark Advance Control  
 MFI-Mechanical Fuel Injection

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

Evaporative Family 9B4-4

Division	Basic Body	Trim	Body Type	
4				<u>Buick</u>
	B	F	37	LeSabre Sport Coupe
	E	Y	57	Riviera S Type
		Z	57	Riviera
	A	E	09	Century Special Sedan
	A	E	87	Century Special Coupe
	A	H	09	Century Custom Sedan
	A	H	87	Century Custom Coupe
	A	L	09	Century Limited Sedan
	A	L	87	Century Limited Coupe
	A	K	47	Regal Sport Coupe
	A	G	87	Century Sport Coupe

Issued: 092778. A & B models added by RC94-80 & 84, on 110378.

AIR RESOURCES BOARD 1979 SUPPLEMENTAL DATA SHEET - GM FORMAT

Passenger Cars

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-154

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Engine Family 940E4DVY Engine CID 231 Transm. A-3

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

Eng. Code	Air Cond.	Ign.Syst. EI,CA,VA Dist. Part No.	Fuel System 4V 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 1110765	Rochester 17059544	17062025 17063974	4000	4	B		37	A-3	JM 3	A E F
2			17059546			4	E	57	JE 3			
2 a,b			17059548	17063964 17058449			OR JN 4	F BCD				
3		17059547	17062025 17063974	3500	4 4	A A	09 87	JM 3	E A E F E			
4		1110774				4	A	47			E	

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: 092778. Revisions: A. EC 1, 3 & 4 added by RC94-80 & 84, on 110378. B. Tune-up label JN added by RC 94-104, on 120178. C. EC 2a added by RC 94-120, on 011179. D. EC 2b added by RC 94-144, on 032079. E. Corrected per GM letter ML-9G287, F. EGR valves 17063964 & 74 added by RC 94-165, on 041679.



Issued: 120178. Manufacturer: General Motors Corporation Executive Order No. A-6-154 Pg. 4

**JN-940E4DVY**  
984.4  
3.0L  
VEHICLE EMISSION CONTROL  
GENERAL MOTORS CORPORATION



**SET PARKING BRAKE AND BLOCK WHEELS**

- MAKE ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE OPEN, AIR CLEANER ON, AND EXCEPT AS NOTED AIR CONDITIONING OFF. PLUG DISCONNECTED VACUUM FITTINGS AND/OR HOSES.
1. DISCONNECT AND PLUG DISTRIBUTOR VACUUM HOSE AND EGR HOSE TO EGR VALVE.
  2. SET THING AT SPECIFIED RPM. WITH TRANSMISSION IN PARK, SET FAST IDLE TO SPECIFIED SPEED ON HIGHEST CAM STEP. RECONNECT DISTRIBUTOR VACUUM ADVANCE HOSE.
  3. ADJUST CARBURETOR SPEED SCREW TO SPECIFIED RPM.
  4. TURN A/C ON TO MAX POSITION AND COLDEST TEMPERATURE. DISCONNECT A/C CLUTCH FEED WIRE (GREEN) AT A/C CLUTCH, VERIFY ELECTRIC CURRENT AVAILABLE AT SOLENOID.
  5. ADJUST SOLENOID TO SPECIFIED RPM IN DRIVE, TURN A/C OFF, AND RECONNECT A/C CLUTCH FEED WIRE.
  6. RECONNECT EGR VALVE HOSE.

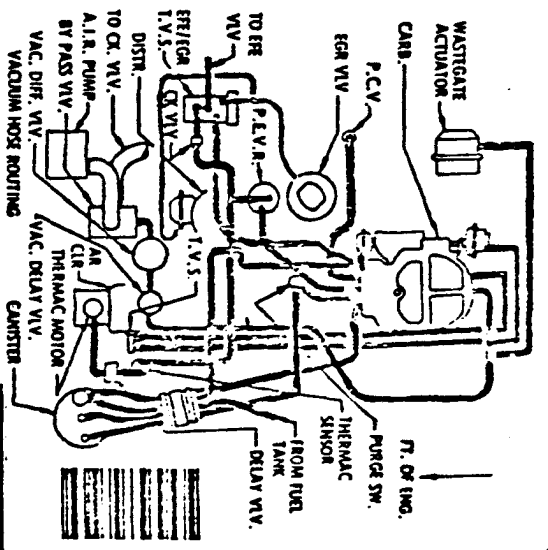
SEE SERVICE MANUAL AND MAINTENANCE SCHEDULE FOR ADDITIONAL INFORMATION.

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

**CATALYST**

LOW ALTITUDE CERTIFICATION		TRANSMISSION
EGR - EFF. AIR		AUTOMATIC
TIMING (°B, I, D, C @ RPM)		15° @ 600
SPARK PLUG	TYPE	R4415/R4415X
	GAP	0.01/0.00 IN.
CARBURETOR SCREW (RPM)		600 (DRIVE)
FAST IDLE SCREW (RPM)		2500 (PARK)
SOLENOID SCREW (RPM)		650 (DRIVE)

IDLE MIXTURE SCREWS ARE PRESET AND SEALED 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 CALIFORNIA OR OTHER STATE LAWS.



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