State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-138
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 for 1979 model-year gasoline-powered passenger cars are certified for the vehicles described below:

Engine Family	Displacement Cubic Inches	Exhaust Emission Control Systems (Special Features)
940E4DVT	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:

Engine Family	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
940E4DVT	0.29	8.4	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.

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

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

Executed at El Monte, California this 25th day of August, 1978.

G. C. Hass, Chief
Vehicle Emissions Control Division

1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corp. Executive Order No. A-6-138 Page 1

Engine Family 940E4DVT 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				Buick
	A	E	09	Century Special Sedan
			87	Century Special Coupe
		G	87	Century Sport Coupe
		H	09	Century Custom Sedan
			87	Century Custom Coupe
		K	47	Regal Sport Coupe
		L	09	Century Limited Sedan
			87	Century Limited Coupe
	B	F	37	LeSabre Sport Coupe
	E	Y	57	Riviera S Type
		Z	57	Riviera

4EY57 model name corrected: 120178

Issued: 082878

AIR RESOURCES BOARD 1979 SUPPLEMENTAL DATA SHEET - GM FORMAT
Passenger Cars

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-138 Pg. 2

Engine Family 940E4DVT Engine CID 231 Transm. A-3

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

Eng. Code	Air Cond.	Ign. Syst. EI,CA,VA ESAC Distrib. 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 17059543	17060898	3500	4	A		09 47 87	A-3	BM 3 or JR 4	A
2			17059540	17060899	4000	4	B		37			
3			17059542			4	E		57		BN 3 or JS 4	A
4		1110774	17059543	17062025 17063974	3500	4	A		87		BM 3 or JR 4	B A

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: 082878 Revisions: A. Tune-up labels JR & JS added by RC 94-104, on 120178.

B. EGR valve 17063974 added by RC 94-165, on 041679.

JR 1.8L *940E4DVT 9P1-4

VEHICLE EMISSION CONTROL INFORMATION
GENERAL MOTORS CORPORATION

GM

SET PARKING BRAKE AND BLOCK WHEELS

MAKE ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE OPEN, AIR CLEANER ON, AND WHERE APPLICABLE, 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 TIMING 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 IN DRIVE.
4. DISCONNECT EGR VALVE HOSE.

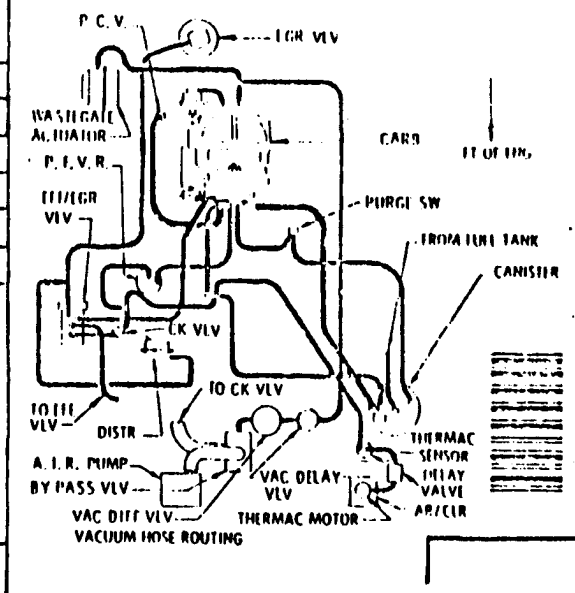
SEE SERVICE MANUAL AND MAINTENANCE SCHEDULE III FOR ADDITIONAL INFORMATION.

CATALYST
EGR-EFE-AIR

LOW ALTITUDE CERTIFICATION		TRANSMISSION
		AUTOMATIC
TIMING (°B.T.D.C. @ RPM)		15° @ 650
SPARK PLUG	TYPE	R44TS/R44TSX
	GAP	.040/.060 IN.
CARBURETOR SCREW (RPM)		650 (DRIVE)
FAST IDLE SCREW (RPM)		2500 (PARK)

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.



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

E.F. 940E4DVT

JS 3.8L *940E4DVT 9B4-4

VEHICLE EMISSION CONTROL INFORMATION
GENERAL MOTORS CORPORATION

GM

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 TIMING 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 III FOR ADDITIONAL INFORMATION..

CATALYST
EGR-EFE-AIR

LOW ALTITUDE CERTIFICATION		TRANSMISSION
		AUTOMATIC
TIMING (°B.T.D.C. @ RPM)		15° @ 600
SPARK PLUG	TYPE	R44TS/R44TSX
	GAP	.040/.060 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.

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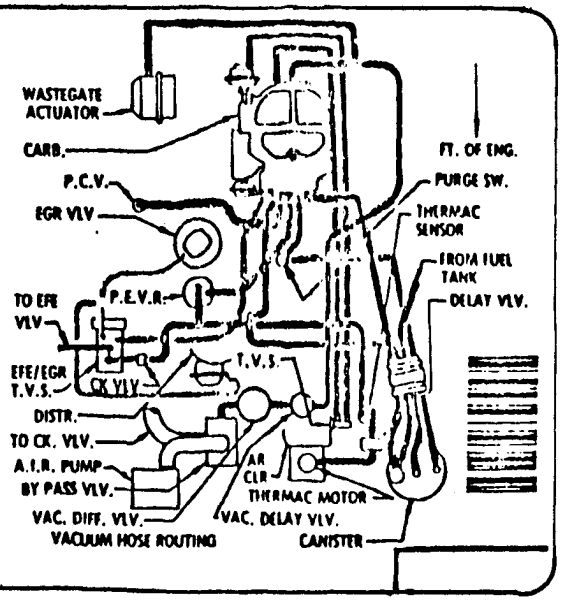

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