

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-137
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>
940E2LU	231	Air Injection Exhaust Gas Recirculation Oxidation 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>
940E2LU	0.35	5.9	1.2

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 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, or have been granted a temporary exemption from the aforementioned "Specifications" by Executive Order AA-6 series.

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 2nd day of August, 1978.

G. C. Hass by D. D. Archon

G. C. Hass, Chief
Vehicle Emissions Control Division

1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer GENERAL MOTORS CORP. Executive Order No. A-6-137 Page 1

Engine Family 940E2LU Engine (CID) 231

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

EVAPORATIVE FAMILY 9B3-4

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Division	Basic Body	Trim	Body Type				
							<u>Pontiac</u>
				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
				B	L	37	Catalina Coupe .
						69	Catalina Sedan .
				F	S	87	Firebird .
					T	87	Esprit .
				G	J	37	Grand Prix
					K	37	Grand Prix LJ
				H	E	27	Sunbird Coupe
					M	07	Sunbird Sport Hatchback Coupe
						15	Sunbird Sport Safari Station Wagon
						27	Sunbird Sport Coupe
				X	Y	17	Phoenix Hatchback Coupe .
						27	Phoenix Coupe
						69	Phoenix Sedan .
					Z	27	Phoenix LJ Coupe .
						69	Phoenix LJ Sedan .

2 G K 37 added by RC 94-140, on 020279.

(1) Sold as GMC model

Issued 082878.

1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer GENERAL MOTORS CORP. Executive Order No. A-6- 137 Page 2

Engine Family 940E2LU Engine (CID) 231

3			Oldsmobile	4	Buick		
A	G	09	Cutlass Salon Sedan	A	E	09	Century Special Sedan
		35	Cutlass Cruiser			35	Century Special Wagon
		87	Cutlass Salon Coupe			87	Century Special Coupe
	H	35	Cutlass Brougham Cruiser		G	87	Century Sport Coupe
	J	09	Cutlass Salon Brougham Sedan		H	09	Century Custom Sedan
		87	Cutlass Salon Brougham Coupe			35	Century Custom Wagon
	K	47	Cutlass Calais Coupe			87	Century Custom Coupe
	M	47	Cutlass Supreme Brougham Coupe		J	47	Regal Coupe
	R	47	Cutlass Supreme Coupe		L	09	Century Limited Sedan
						87	Century Limited Coupe
B	L	37	Delta 88 Coupe		M	47	Regal Limited Coupe
		69	Delta 88 Sedan				
	N	37	Delta 88 Royale Coupe	B	N	37	LeSabre Coupe
		69	Delta 88 Royale Sedan			69	LeSabre Sedan
H	D	07	Starfire SX		P	37	LeSabre Limited Coupe
						69	LeSabre Limited Sedan
	T	07	Starfire				
X	B	17	Omega Hatchback Coupe	H	S	07	Skyhawk
		27	Omega Coupe		T	07	Skyhawk "S"
		69	Omega Sedan				
	E	27	Omega Brougham Coupe	X	B	17	Skylark Hatchback Coupe
		69	Omega Brougham Sedan			27	Skylark Coupe
						69	Skylark Sedan
					C	17	Skylark Custom Hatchback Coupe
						27	Skylark Custom Coupe
						69	Skylark Custom Sedan
					W	27	Skylark "S" Coupe

AIR RESOURCES BOARD 1979 SUPPLEMENTAL DATA SHEET - GM FORMAT

Passenger Cars

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-137

Pg. 4

Engine Family 940E2LU Engine CID 231 Transm. _____

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 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
4	W Or WO	Delco Remy 1110767	Rochester 17059498	17060889 17063967	3500	1	H		07	A-3	BR 6	B
						1	H		15			
						1	H		27			
						1	H		77			
5			17059491	17062426 17063975		234	H		07	M-4, M-5	BY 7	B
						234	H		15			
						234	H		27			
						234	H		77			
5A						1	H		07		8	A
						1	H		15			
						1	H		27			
						1	H		77			
						234	H		07		8	
						234	H		15			
						234	H		27			
						234	H		77			

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, EC 5A added by RC 94-16, on 012979. Labels are same as BY & BH except for deletion of distrib. vacuum delay valve.

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

AIR RESOURCES BOARD 1979 SUPPLEMENTAL DATA SHEET - GM FORMAT

Passenger Cars

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-137

Pg. 3

Engine Family 940E2LU 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 2Y 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 1110768	Rochester 17059492	17060890 17063968	4000	2 3 4	B		37 69	A-3	BF 5	A
2					3500	2 3	X X	Y	27 17 27 69 27			
					4000	2 4	X X X X	Z B	17 27 69 17 69			
3		1110767	17059498	17060889 17063967	3500	1 2 3 4	A		09 19 27 35 37 47 80 87 37		BV 5	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. Opt. EGR valve PN's added by RC 94-165, on 041679.

Manufacturer: General Motors Corporation

Executive Order No. A-6-137 Pg. 5

**3.8L
940E2LU
983-4**

**VEHICLE EMISSION CONTROL
INFORMATION
GENERAL MOTORS CORPORATION**



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, EGR HOSE TO EGR VALVE AND EVAPORATIVE PURGE HOSE TO VAPOR CANISTER.
 2. SET TIMING AT SPECIFIED RPM, DISCONNECT THROTTLE SOLENOID WIRE (WHERE APPLICABLE), RECONNECT DISTRIBUTOR VACUUM ADVANCE HOSE.
 3. ADJUST CARBURETOR SPEED SCREW TO SPECIFIED RPM.
 4. RECONNECT SOLENOID WIRE, MANUALLY EXTEND SOLENOID SCREW AND ADJUST TO SPECIFIED RPM. (WHERE APPLICABLE).
 5. WITH TRANSMISSION IN PARK OR NEUTRAL, SET FAST IDLE TO SPECIFIED SPEED ON HIGHEST CAM STEP.
 6. RECONNECT CANISTER AND EGR VALVE HOSES.

SEE SERVICE MANUAL AND MAINTENANCE SCHEDULE II FOR ADDITIONAL INFORMATION.

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

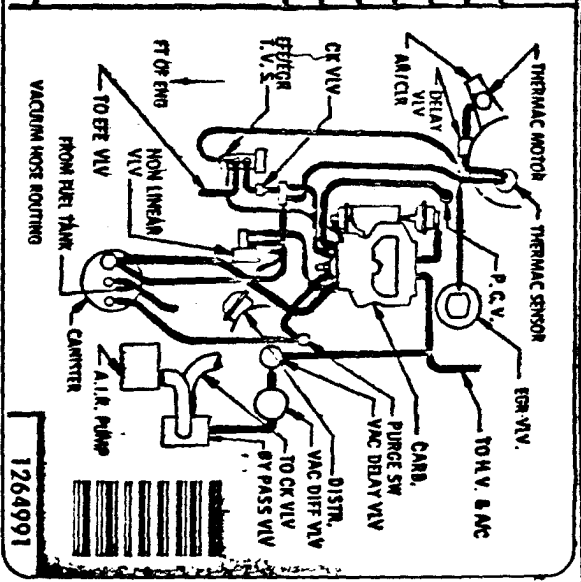
CATALYST

EGR-FEE-RAIR
LOW ALTITUDE CERTIFICATION

TRANSMISSION	AUTOMATIC
TIMING (P.B. I.D.C. @ RPM)	15° @ 600
SPARK PLUG	TYPE R45T3X/R46T3X GAP .060 IN.
CARBURETOR SCREW (RPM)	600 (DRIVE)
FAST IDLE SCREW (RPM)	2200 (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.



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**VEHICLE EMISSION CONTROL
INFORMATION
GENERAL MOTORS CORPORATION**



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 2. SET TIMING AT SPECIFIED RPM, WITH TRANSMISSION IN PARK OR NEUTRAL, SET FAST IDLE TO SPECIFIED SPEED ON HIGHEST CAM STEP, DISCONNECT THROTTLE SOLENOID WIRE (WHERE APPLICABLE), RECONNECT DISTRIBUTOR VACUUM ADVANCE HOSE.
 3. ADJUST CARBURETOR SPEED SCREW TO SPECIFIED RPM.
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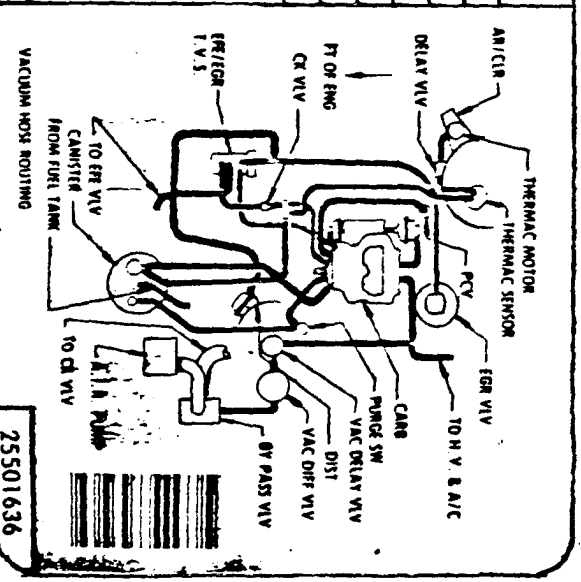
CATALYST

EGR-FEE-RAIR
LOW ALTITUDE CERTIFICATION

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VEHICLE EMISSION CONTROL
INFORMATION
GENERAL MOTORS CORPORATION



CATALYST

LOW ALTITUDE CERTIFICATION
EGR-FEE-BAR
TIMING (°B, I.D.C. @ RPM) 15° @ 800

SPARK PLUG TYPE R45TSX/R461SX
GAP .060 IN.

CARBURETOR SCREW (RPM) 600 (NEUTRAL)

FAST IDLE SCREW (RPM) 2200 (NEUTRAL)

SOLENOID SCREW (RPM) 800 (NEUTRAL)

TRANSMISSION MANUAL

LOW ALTITUDE CERTIFICATION
EGR-FEE-BAR
TIMING (°B, I.D.C. @ RPM) 15° @ 800

SPARK PLUG TYPE R45TSX/R461SX
GAP .060 IN.

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TRANSMISSION MANUAL

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TRANSMISSION MANUAL

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TRANSMISSION MANUAL

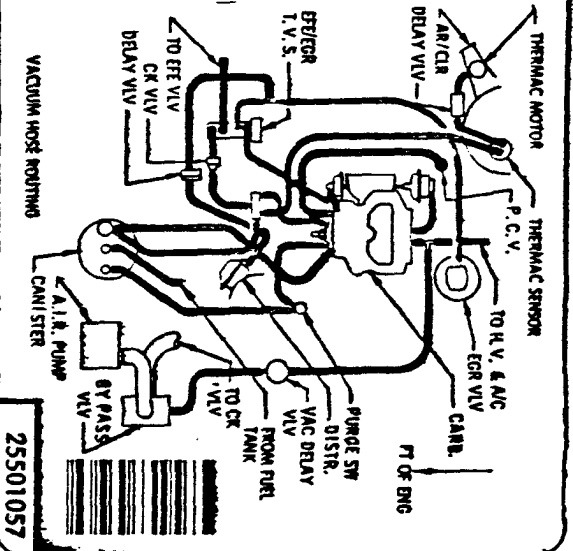
LOW ALTITUDE CERTIFICATION
EGR-FEE-BAR
TIMING (°B, I.D.C. @ RPM) 15° @ 800

SPARK PLUG TYPE R45TSX/R461SX
GAP .060 IN.

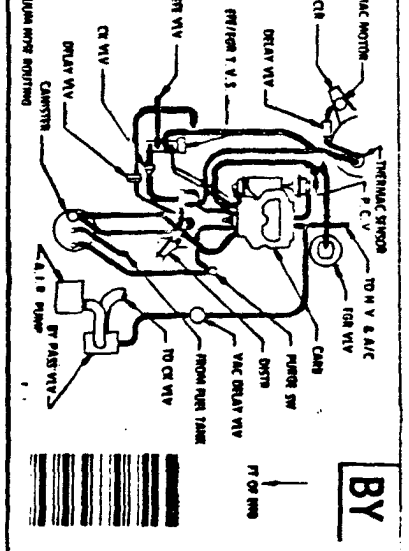
CARBURETOR SCREW (RPM) 600 (NEUTRAL)

FAST IDLE SCREW (RPM) 2200 (NEUTRAL)

SOLENOID SCREW (RPM) 800 (NEUTRAL)



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VEHICLE EMISSION CONTROL
INFORMATION
GENERAL MOTORS CORPORATION



CATALYST

LOW ALTITUDE CERTIFICATION
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1. DISCONNECT AND PLUG DISTRIBUTOR VACUUM HOSE, FOR HOSE TO EGR VALVE AND EVAPORATIVE PURGE HOSE TO VAPOR CANISTER.
2. SET TIMING AT SPECIFIED RPM, WITH TRANSMISSION IN NEUTRAL, SET FAST IDLE TO SPECIFIED SPEED ON HIGHEST CAM STEP DISCONNECT THROTTLE SOLENOID WIRE (WHERE APPLICABLE), RECONNECT DISTRIBUTOR VACUUM ADVANCE HOSE.
3. ADJUST CARBURETOR SPEED SCREW TO SPECIFIED RPM.
4. RECONNECT SOLENOID WIRE, MANUALLY EXTEND SOLENOID SCREW AND ADJUST TO SPECIFIED RPM.
5. RECONNECT CANISTER AND EGR VALVE HOSES.

SEE VACUUM HOSE ROUTING DIAGRAM, SERVICE MANUAL AND MAINTENANCE SCHEDULE II FOR ADDITIONAL INFORMATION.
THIS VEHICLE CONFORMS TO U.S. EPA AND CALIFORNIA REGULATIONS APPLICABLE TO 1979 MODEL YEAR NEW PASSENGER CARS.

