

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-144
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:

<u>Engine Family</u>	<u>Displacement Cubic Inches</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
930M4AU	350, 403	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>
930M4AU	0.34	8.0	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.

GENERAL MOTORS CORPORATION

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(Page 2 of 2)

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 18 day of August, 1978.



G. C. Hass, Chief
Vehicle Emissions Control Division

1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corporation Executive Order No. A-144 Page 1
 Engine Family 930M4AU Engine (CID) 350, 403

ABBREVIATIONS

Ignition System

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

Exhaust Emissions Control System

AI-Air Injection
 CCAV-Com. 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)
 SOC-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: 9B4-3

DIVISION	BASIC BODY	TRIM	BODY TYPE	
2	F	U	87	PONTIAC Formula .
			87	Trans Am .
	X		87	10th Anniversary . Limited Edition . Trans Am
			B	L
	N		37 69	Bonneville Coupe Bonneville Sedan
			Q	37 69
	L		35	Catalina Safari Station Wagon
			N	35

				OLDSMOBILE
3	A	R	47	Cutlass Supreme Coupe
			B	L
	N		37 69	Delta 88 Royale Coupe . Delta 88 Royale Sedan .
			Q	35
	C	V	37 69	Ninety Eight Luxury Coupe Ninety Eight Luxury Sedan
			X	37 69
	E	Z	57	Toronado Brougham Coupe .

				BUICK
4	B	N	37 69	LeSabre Coupe . LeSabre Sedan
			P	37 69
	R		35	Estate Wagon
			C	V
	X		37 69	Electra Limited Coupe Electra Limited Sedan
			U	37 69
	E	Y	57	Riviera Sport Coupe .
			Z	57

Model 2FX87 added by RC 93-123;
 Model 3AR47 Supreme was
 Model 3AK47 Calais before
 RC93-101 (Rev. 1), on 121178.

Model 3AK47 added by
 RC 93-101, on 111378.
 Issued: 082178.

AIR RESOURCES BOARD 1979 SUPPLEMENTAL DATA SHEET - GM FORMAT

Passenger Cars

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-144

Pg. 2

Engine Family 930M4AU Engine CID 350, 403 Transm. A-3

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

Eng. Code (CID)	Air Cond.	Ign. Syst. EI, CA, VA Dist. Part No.	Fuel System 4V Carburetor Part No.	EGR Valve Part No.	Inertia Wt. Class	Divisions	Basic Body	Trim	Body Type	Trans- mission	Tune-up Label & Page No.	Rev. Notes				
11b, 11c (350)	W	Delco Remy 1103346	Rochester 17059553	17056382	4000	3 3	B B		37 69	A-3	SR 5	A B				
12a,				17061580		4	A	R	47			CE				
12b (350)				17061580		2 4	B B	L	37 37			B				
						4500	234 2 2 2 4	B B B B	N Q			35 37 37 69				
34 34				C C			37 69									
13a, 13b (403)				17061583	234 234 234		B B B		35 37 69			SU 5	B			
					34 34		C C		37 69							
					17061575	4000	2	F	87			OF 5	B			
16, 16a (350)				1103323	17059553, 17059554	17061577		34	E				57		OC 4	D B

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: 082178. Revisions: A. E.C. 11a deleted, 11b added by RC 93-2, on 090178. B. E.C. 11c, 12b, 13b, 14b, 16a added by RC 93-91, on 101678. C. Model 4AK47 added by RC 93-101, on 111378. D. Carb. 17059554 added by ML-9P784, on 111378. E. Model 3AK47 Corrected to 3AR47 by RC 93-101 (Rev. 1), on 121178.

AIR RESOURCES BOARD 1979 SUPPLEMENTAL DATA SHEET - GM FORMAT

Passenger Cars

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6- 144

Pg. 3

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21b,c (350)	WO	Delco Remy 1103346	Rochester 17059553	17056382	4000	3 3	B B		37 69	A-3	SR 5	AB
22a,				17061580		4	A	R	47			
22b (350)					2 2 4	B B B	L	37 69 69	B			
					4500	234 2 2	B B B	N Q				
23a, 23b (403)		1103325		17061583	4000	234 2 3	B B B	L	37 69 69		SU 5	B
						4	B	N	69			
					4500	234 2 2 4	B B B B	N Q P	35 69 69 69			
						34 34	C C		37 69			
24a, 24b (403)				17061575	4000	2	F	87		OF 4	B	

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: 082178. Revisions: A. E.C. 21a deleted, 21b added by RC 93-2, on 090178. B. E.C. 21c, 22b, 23b, 24b added by RC 93-91, on 101678. C. Model 4AK47 added by RC 93-101, on 111378. D. Model 3AK47 corrected to 3AR47 by RC 93-101 (Rev. 1), on 121178.

Manufacturer: General Motors Corporation

Executive Order No. A-6-144 Pg. 4

OC
5.7 LITRE
930M4AU/984-3

VEHICLE EMISSION CONTROL INFORMATION
GENERAL MOTORS CORPORATION



CATALYST-E.G.R.-A.I.R.
LOW ALTITUDE CERTIFICATION

TIMING/DEG. BTDC @ RPM) 20° @ 1100 (IN PARK)

SPARK PLUGS GAP TYPE .060 IN. AC R46SZ

CARBURETOR SCREW(RPM) 500 (IN DRIVE)

FAST IDLE SCREW(RPM) 1000 (IN PARK)

SOLENOID SCREW(RPM) 600 (IN DRIVE)

CHOKE SETTING 2 N.R.

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.

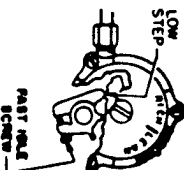
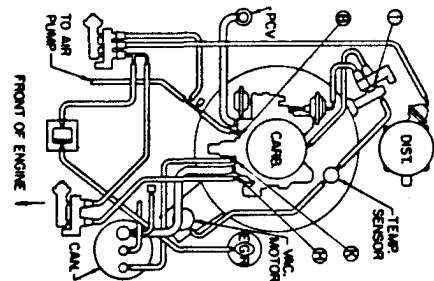
SEE SERVICE MANUAL AND MAINTENANCE SCHEDULE II FOR ADDITIONAL INFORMATION.

PRINTED IN U.S.A.

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

PART NO. 22300348

EMISSION HOSE ROUTING



VEHICLE EMISSION CONTROL INFORMATION



CATALYST-E.G.R.-A.I.R.
LOW ALTITUDE CERTIFICATION

TIMING/DEG. BTDC @ RPM) 18° @ 1100 (IN PARK)

SPARK PLUGS GAP TYPE .060 IN. AC R46SZ

CARBURETOR SCREW(RPM) 500 (IN DRIVE)

FAST IDLE SCREW(RPM) 1000 (IN PARK)

SOLENOID SCREW(RPM) 600 (IN DRIVE)

CHOKE SETTING 2 N.R.

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.

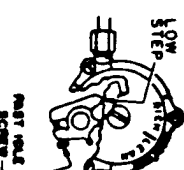
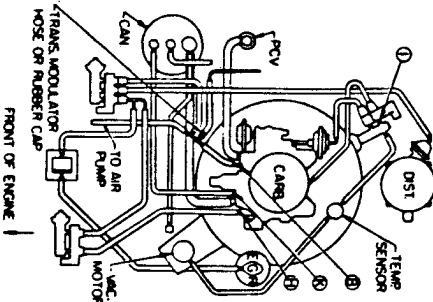
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PRINTED IN U.S.A.

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

PART NO. 22301770

EMISSION HOSE ROUTING



OF 6.6 LITRE
930M4AU/984-3
SET PARKING BRAKE AND BLOCK DRIVE WHEELS

MAKE ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE FULLY OPEN AND WHERE APPLICABLE AIR CONDITIONING OFF.

1. DISCONNECT MOLDED CONNECTOR FROM AIR CLEANER TVS SWITCH, PLUG VACUUM SOURCE ① ON CONNECTOR AND REMOVE AIR CLEANER.
2. DISCONNECT VACUUM HOSES FROM PORTS ②, ③ AND ④ ON CARBURETOR AND PLUG PORTS.
3. SET TIMING AT SPECIFIED RPM, IN PARK.
4. ADJUST CARBURETOR FAST IDLE SPEED SCREW TO SPECIFIED RPM ON LOW STEP OF CAM, IN PARK.
5. ADJUST CARBURETOR FAST IDLE SPEED SCREW TO SPECIFIED RPM ON LOW STEP OF CAM, IN DRIVE.
6. ON AIR CONDITIONED CARS, AFTER COMPLETING ABOVE ADJUSTMENTS, DISCONNECT ELECTRICAL CONNECTOR AT A/C COMPRESSOR CLUTCH TURN A/C SWITCH ON AND ADJUST SOLENOID (ENERGIZED) SCREW TO SPECIFIED RPM, IN DRIVE.
7. RECONNECT ELECTRICAL CONNECTOR, RECONNECT ELECTRICAL HOSES TO PORTS ②, ③ AND ④ ON CARBURETOR.
8. INSTALL AIR CLEANER AND RECONNECT MOLDED CONNECTOR TO TVS SWITCH.

MAKE ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE FULLY OPEN AND WHERE APPLICABLE AIR CONDITIONING OFF.

1. DISCONNECT MOLDED CONNECTOR FROM AIR CLEANER TVS SWITCH, PLUG VACUUM SOURCE ① ON CONNECTOR AND REMOVE AIR CLEANER.
2. DISCONNECT VACUUM HOSES FROM PORTS ②, ③ AND ④ ON CARBURETOR AND PLUG PORTS.
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SEE SERVICE MANUAL AND MAINTENANCE SCHEDULE II FOR ADDITIONAL INFORMATION.

EMISSION HOSE ROUTING

<p>SR 5.7 LITRE # 930M4U/984-3</p>	<p>VEHICLE EMISSION CONTROL INFORMATION</p> <p>GENERAL MOTORS CORPORATION</p>	<p>CATALYST-EGR-A.I.R.</p> <p>LOW ALTITUDE CERTIFICATION</p>												
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<p>EMISSION HOSE ROUTING</p>		<p>PART NO. 22500536</p>												

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