

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-152
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 medium-duty vehicles:

<u>Engine Family</u>	<u>Displacement Cubic Inches</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
912F2	250	Exhaust Gas Recirculation Oxidation Catalyst Pulse Air Injection

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>
912F2	.5	14	2.0

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, 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 12 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-6-152 Page 1

Engine Family 912F2 Engine (CID) 250

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 Emission Family 9B6-T, 9C6-T

*Note: Chevrolet models are listed. GMC Truck Div. has a complete line of matching models, not listed. For GMC models, read T instead of C as the first letter of the model code.

TRUCK MODEL IDENTIFICATION*

1. C = Chevrolet; T = GMC Truck C C 10703 + E63 + LG9

2. Chassis Type _____

3. GVW Range _____

4. CA Dimension/Model Type _____

5. Cab or Body Style _____

6. Body Ordering Code _____

7. Engine Ordering Code _____

② Chassis Type

C—Conventional 4 x 2
 G—Forward Control 4 x 2
 (Body-Frame Integral)
 K—Conventional 4 x 4
 (Four Wheel Drive)
 P—Forward Control 4 x 2
 (Conventional)

③ Series/GVW Range

1—4800 to 7300
 2—6400 to 8400
 3—6400 to 14,500

⑤ Cab or Body Style

03—Conventional Cab
 (C-K models);
 Cutaway Van, Hi-Cube
 Van (G models)
 05—Chevy Van, Vandura
 06—Suburban/Sportvan,
 Rally Wagon with
 Panel Rear Doors
 16—Blazer, Jimmy
 32—Motor Home Chassis
 42—Forward Control
 Chassis, Step-Van,
 Value Van
 43—Bonus Cab, Crew Cab

④ CA Dimension/Model Type

05—Blazer, Jimmy,
 Step-Van, Value Van
 07—42" Pickup, Chassis-Cab
 08—FC or Motor Home
 Chassis, Step-Van, Value
 Van
 09—56" Suburban,
 Chassis-Cab, Pickup
 10—60" FC Chassis, Chevy
 Van, Vandura, Sportvan,
 Rally Wagon,
 Chassis-Cab, Step-Van,
 Value Van

⑥ Body Code

ZW9—Base Body
 Z58—Blazer, Jimmy w/White
 Top
 Z59—Blazer, Jimmy w/Black
 Top
 Z64—RV Cutaway Van
 E31—Hi-Cube Van (10' Steel
 96" Wide)
 E32—Step-Van, Value Van
 (Steel)
 E33—Step-Van, Value Van
 (Aluminum)
 E34—Hi-Cube Van (10' Steel
 82" Wide)
 E36—Hi-Cube Van (96" Wide
 10' Aluminum)
 E38—Hi-Cube Van (12' Steel
 96" Wide)
 E39—Hi-Cube Van (96" Wide
 12' Aluminum)
 E55—Suburban (w/End Gate)
 E62—Stepside (Fenderside)
 Pickup
 E63—Fleetside (Wide Side)
 Pickup
 E94—Beauville Sportvan,
 Rally STX

11—Motor Home Chassis
 13—Chevy Van, Vandura,
 Sportvan, Rally
 Wagon, Cutaway
 Van, Hi-Cube Van
 14—84" FC or Motor Home
 Chassis, Chassis-Cab,
 Step-Van, Value Van
 16—Cutaway Van,
 Hi-Cube Van
 18—Motor Home Chassis

⑦ Engine Code

LD4—250 Six
 L25—292 Six
 LG9—305-2 V8
 LS9—350-4 V8
 LF4—400-4 V8
 LFB—454-4 V8
 LFB—350-DESEL

Issued: 090878

Engine Family 912F2 Engine (CID) 250 Transm. _____

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

Eng. Code	Air Cond.	Ign.Syst. EI,CA,VA Distrib. Part No.	Fuel System 2V Carb. Part No.	EGR System	Inertia Wt. Class	See Pg.1 for:		Trans- mission	Cert. Veh. Axle Ratio	Tune-up Label & Page No.	Rev. Notes		
						Model Code	Body Code(s)						
11	W or WO	Delco Remy 1110717	Rochester 17059767	17057189	4000	CG21005	None	M-3	4.11	C7, C8, C9 or D2	3 4		
					4500	CC20903	E62	M-3	3.73				
						CC20903	E63	M-3	3.73				
								M-4	3.73				
					5000	CG21305 CG21006 CG21306 CG31005 CG31305	None	M-3	3.73				
								M-4					
					5000	CC20903 CC21306	None E94	M-3 M-4					
M-3													
13			17059741	17062451	4000	CG21005	None	A-3	3.73				
					4500	CC20903	E62						
						CC20903	E63	None					
					5000	CG21306 CC20903	E94 None		4.11				

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

Date of Issue: 090878 Revisions:

C9
 4.1 LITER
 (250 CU IN.)
 * 91272
 * 96.1

VEHICLE EMISSION CONTROL INFORMATION
 GENERAL MOTORS CORPORATION

SET PARKING BRAKE AND BLOCK DRIVE WHEELS.

MAKE ALL ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE. CHOCK FULL OPEN, AIR CLEANER INSTALLED, AND AIR CONDITIONING OFF.

1. DISCONNECT AND PLUG VACUUM HOSE AT DISTRIBUTOR. SET IGNITION TIMING AT SPECIFIED ENGINE SPEED UNPLUG AND RECONNECT VACUUM HOSE TO DISTRIBUTOR.
2. DISCONNECT AND PLUG VACUUM HOSE AT EGR VALVE AND CAMSTER PUMP HOSE AT CAMSTER.
3. ADJUST CURB ROL SPEED TO SPECIFICATION WITH TRANSMISSION IN SPECIFIED GEAR BY TURNING 1/8 HEX SCREW LOCATED AT END OF ROE SOLIDROD BODY.
4. DISCONNECT ELECTRICAL LEAD AT END OF ROE SOLIDROD. ADJUST BASE ROL SPEED TO SPECIFICATION WITH TRANSMISSION IN SPECIFIED GEAR BY TURNING ROE SPEED SCREW. RECONNECT ELECTRICAL LEAD.
5. WITH TRANSMISSION IN PARK OR NEUTRAL, ADJUST FAST ROL CAN FOLLOWER SCREW TO OBTAIN SPECIFIED FAST ROL SPEED ON HIGH STEP OF CAM.
6. UNPLUG AND RECONNECT VACUUM HOSE TO EGR VALVE AND CAMSTER PUMP HOSE TO CAMSTER.

CATALYST
 PAIN FOR THE
 LOW ALTITUDE CERTIFICATION

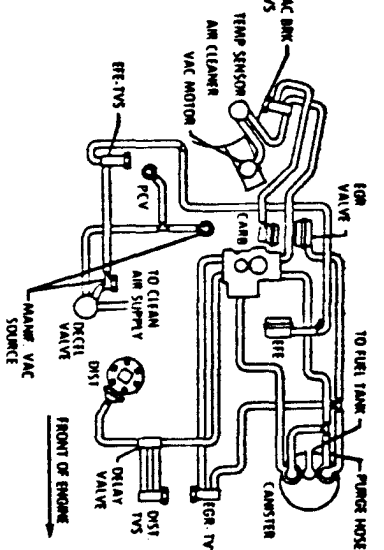
	TRANSMISSION	
	AUTOMATIC	MANUAL
TIMING (° BTIC @ RPM)	8° @ 600	8° @ 750
SPARK PLUG GAP (IN.)	0.035	0.035
CURB ROL SPEED (RPM)	600 (DN)	750 (DN)
BASE ROL SPEED (RPM)	425 (DN)	425 (DN)
FAST ROL SPEED (RPM)	2100 (P) OR (N)	2100 (N)

[NOTE] ROE MIXTURE SETTINGS ARE PRESET AND SEALED AT FACTORY. PROVISION FOR ADJUSTMENT DURING TUNE UP IS NOT PROVIDED.

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

SEE SERVICE MANUAL AND MAINTENANCE SCHEDULE FOR ADDITIONAL INFORMATION.

EMISSION HOSE ROUTING



PT. NO. 14007845

D2
 4.1 LITER
 (250 CU IN.)
 * 91272
 * 96.1

VEHICLE EMISSION CONTROL INFORMATION
 GENERAL MOTORS CORPORATION

SET PARKING BRAKE AND BLOCK DRIVE WHEELS.

MAKE ALL ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE. CHOCK FULL OPEN, AIR CLEANER INSTALLED, AND AIR CONDITIONING OFF.

1. DISCONNECT AND PLUG VACUUM HOSE AT DISTRIBUTOR. SET IGNITION TIMING AT SPECIFIED ENGINE SPEED UNPLUG AND RECONNECT VACUUM HOSE TO DISTRIBUTOR.
2. DISCONNECT AND PLUG VACUUM HOSE AT EGR VALVE AND CAMSTER PUMP HOSES AT CAMSTERS.
3. ADJUST CURB ROL SPEED TO SPECIFICATION WITH TRANSMISSION IN SPECIFIED GEAR BY TURNING 1/8 HEX SCREW LOCATED AT END OF ROE SOLIDROD BODY.
4. DISCONNECT ELECTRICAL LEAD AT END OF ROE SOLIDROD. ADJUST BASE ROL SPEED TO SPECIFICATION WITH TRANSMISSION IN SPECIFIED GEAR BY TURNING ROE SPEED SCREW. RECONNECT ELECTRICAL LEAD.
5. WITH TRANSMISSION IN PARK OR NEUTRAL, ADJUST FAST ROL CAN FOLLOWER SCREW TO OBTAIN SPECIFIED FAST ROL SPEED ON HIGH STEP OF CAM.
6. UNPLUG AND RECONNECT VACUUM HOSE TO EGR VALVE AND CAMSTER PUMP HOSES TO CAMSTERS.

CATALYST
 PAIN FOR THE
 LOW ALTITUDE CERTIFICATION

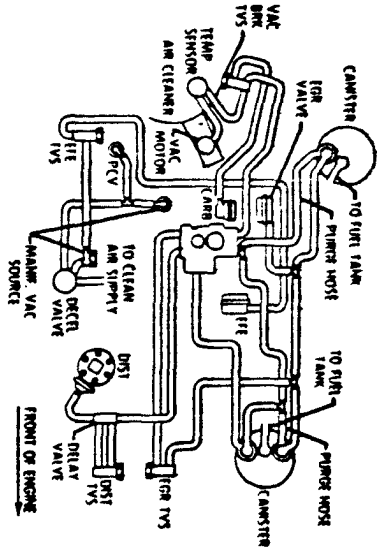
	TRANSMISSION	
	AUTOMATIC	MANUAL
TIMING (° BTIC @ RPM)	8° @ 600	8° @ 750
SPARK PLUG GAP (IN.)	0.035	0.035
CURB ROL SPEED (RPM)	600 (DN)	750 (DN)
BASE ROL SPEED (RPM)	425 (DN)	425 (DN)
FAST ROL SPEED (RPM)	2100 (P) OR (N)	2100 (N)

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EMISSION HOSE ROUTING



PT. NO. 14007846

C9-Incomplete Truck, Single F/Tank
 D2-Incomplete Truck, Dual Fuel Tank

Issued: 090878


Manufacturer: General Motors Corporation

Executive Order No. A-6-152 Pg. 6

C7
 4 LITRE
 (130 CU IN.)
 * 91272
 986 I

VEHICLE EMISSION CONTROL INFORMATION

GENERAL MOTORS CORPORATION



SET PARKING BRAKE AND BLOCK DRIVE WHEELS.

1. MAKE ALL ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE. CHOKE FULL OPEN, AIR CLEANER INSTALLED, AND AIR CONDITIONING OFF.
2. DISCONNECT LEAD AND PLUG VACUUM HOSE AT DISTRIBUTION. SET IGNITION TIMING AT SPECIFIED ENGINE SPEED. UNPLUG AND RECONNECT VACUUM HOSE TO DISTRIBUTION.
3. DISCONNECT AND PLUG VACUUM HOSE AT EGR VALVE AND CAMSTER PUMP HOSE AT CAMSTER.
4. ADJUST CURB IDLE SPEED TO SPECIFICATION WITH TRANSMISSION IN SPECIFIED GEAR BY TURNING 1/8 INCH SCREW LOCATED AT END OF DISENCHORD BODY.
5. DISCONNECT ELECTRICAL LEAD AT DISENCHORD. ADJUST BASE IDLE SPEED TO SPECIFICATION WITH TRANSMISSION IN SPECIFIED GEAR BY TURNING IDLE SPEED SCREW. RECONNECT ELECTRICAL LEAD.
6. WITH TRANSMISSION IN PARK OR NEUTRAL, ADJUST FAST IDLE CAM FOLLOWER SCREW TO OBTAIN SPECIFIED FAST IDLE SPEED ON HIGH STEP OF CAM.
7. UNPLUG AND RECONNECT VACUUM HOSE TO EGR VALVE AND CAMSTER PUMP HOSE TO CAMSTER.

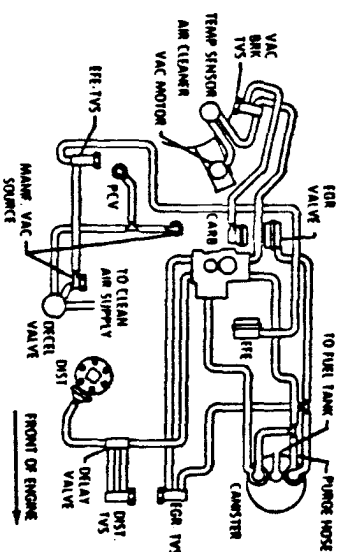
CATALYST
 PAIR FOR EE
 LOW ALTITUDE CERTIFICATION

	TRANSMISSION	
	AUTOMATIC	MANUAL
TIMING (° BT @ RPM)	6° @ 600	6° @ 750
SPARK PLUG GAP (IN.)	0.035	0.035
CURB IDLE SPEED (RPM)	600 (DM)	750 (M)
BASE IDLE SPEED (RPM)	425 (DM)	425 (M)
FAST IDLE SPEED (RPM)	2100 (P) OR (M)	2100 (M)

NOTE: IDLE MIXTURE SCREWS ARE PRESET AND SEALED AT FACTORY. PROCEED 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 FOR ADDITIONAL INFORMATION.

EMISSION HOSE ROUTING



PT. NO. 140078A3


S.D. Sheet 3

E.O. A-6-152

C8
 4 LITRE
 (130 CU IN.)
 * 91212
 963 I

VEHICLE EMISSION CONTROL INFORMATION

GENERAL MOTORS CORPORATION



SET PARKING BRAKE AND BLOCK DRIVE WHEELS.

1. MAKE ALL ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE. CHOKE FULL OPEN, AIR CLEANER INSTALLED, AND AIR CONDITIONING OFF.
2. DISCONNECT AND PLUG VACUUM HOSE AT DISTRIBUTION. SET IGNITION TIMING AT SPECIFIED ENGINE SPEED. UNPLUG AND RECONNECT VACUUM HOSE TO DISTRIBUTION.
3. DISCONNECT AND PLUG VACUUM HOSE AT EGR VALVE AND CAMSTER PUMP HOSES AT CAMSTERS.
4. ADJUST CURB IDLE SPEED TO SPECIFICATION WITH TRANSMISSION IN SPECIFIED GEAR BY TURNING 1/8 INCH SCREW LOCATED AT END OF DISENCHORD BODY.
5. DISCONNECT ELECTRICAL LEAD AT DISENCHORD. ADJUST BASE IDLE SPEED TO SPECIFICATION WITH TRANSMISSION IN SPECIFIED GEAR BY TURNING IDLE SPEED SCREW. RECONNECT ELECTRICAL LEAD.
6. WITH TRANSMISSION IN PARK OR NEUTRAL, ADJUST FAST IDLE CAM FOLLOWER SCREW TO OBTAIN SPECIFIED FAST IDLE SPEED ON HIGH STEP OF CAM.
7. UNPLUG AND RECONNECT VACUUM HOSE TO EGR VALVE AND CAMSTER PUMP HOSES TO CAMSTERS.

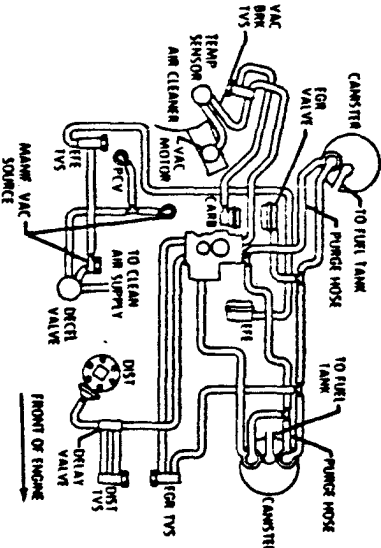
CATALYST
 PAIR FOR EE
 LOW ALTITUDE CERTIFICATION

	TRANSMISSION	
	AUTOMATIC	MANUAL
TIMING (° BT @ RPM)	6° @ 600	6° @ 750
SPARK PLUG GAP (IN.)	0.035	0.035
CURB IDLE SPEED (RPM)	600 (DM)	750 (M)
BASE IDLE SPEED (RPM)	425 (DM)	425 (M)
FAST IDLE SPEED (RPM)	2100 (P) OR (M)	2100 (M)

NOTE: IDLE MIXTURE SCREWS ARE PRESET AND SEALED AT FACTORY. PROCEED 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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EMISSION HOSE ROUTING



PT. NO. 140078A4

Eng. Tam. 912F2

Issued: 090878

C7-Complete Truck,
 C8-Complete Truck,
 Dual Fuel Tank