

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-99  
Relating to Certification of New Motor Vehicle Engines

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That General Motors Corporation 1977 model-year gasoline-powered engines in heavy-duty motor vehicles are certified for the engine family described below:

<u>Family</u>	<u>Engine Size (CID)</u>	<u>Engine Model</u>	<u>Exhaust Emission Control System</u>
GM317	403	Code 2	Engine Modifications

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the manufacturer affix a decal to the side window to the rear of the driver or, if there is no such window on the driver's side, to the windshield of the motor vehicle.

The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following recommended values:

<u>Engine Family</u>	<u>HC + NOx gm/bhp-hr</u>	<u>CO gm/bhp-hr</u>	<u>HC gm/bhp-hr</u>	<u>NOx gm/bhp-hr</u>
GM317		6	0.6	5.7

Engines 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 January, 1977.



G. C. Hass, Chief  
Vehicle Emissions Control Division

1977 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY GASOLINE ENGINES

Manufacturer General Motors Corp. Executive Order No. A-6-99 Page 1

Engine Family GM 317 Engine (CID) 403 Calibration

Emission Control System Engine Modification

Engine Models	Distributor Type <small>HEI</small> C, V, VR Mfr. Part No.	Fuel System Type 1-4V  Mfr. Part No.	EGR System  Part No. Service*	Tune-Up Specifications  (1) Idle Speed (2) Basic Timing (3) Idle Mixture
403 Code 2	Delco 1103309	Rochester 17057559	None	See label SK, below

<p><b>SK ENGINE EXHAUST EMISSION CONTROL INFORMATION</b> GENERAL MOTORS CORPORATION</p> <p><small>GM 317 FAMILY 403 CU. IN. CCS 4 BBL. CARB.</small></p>																	
<p>MAKE ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE OPEN AND AIR CONDITIONING OFF. SET PARKING BRAKE AND BLOCK DRIVE WHEELS.</p> <ol style="list-style-type: none"> <li>DISCONNECT &amp; PLUG BOTH HOSES FROM DISTR. ADV./RETARD UNIT &amp; HOSE TO VAPOR CANISTER AT VAC. SOURCE AND PLUG CARB. FITTING.</li> <li>SET TIMING AT SPECIFIED RPM. (IN PARK)</li> <li>ADJUST FAST IDLE SCREW TO SPECIFIED RPM ON LOW STEP OF CAM. (IN PARK)</li> <li>RECONNECT BOTH HOSES TO DISTRIBUTOR ADV./RETARD UNIT.</li> <li>ADJUST CARB. IDLE SPEED SCREW TO SPECIFIED RPM. (IN DRIVE)</li> <li>SET CLEARANCE BETWEEN THROTTLE RETURN CONTROL VALVE AND CARB. LEVER TO .020 INCH.</li> <li>RECONNECT VAPOR CANISTER HOSE TO CARB. FITTING.</li> </ol> <p>NOTE: IDLE MIXTURE SCREWS ARE PRESET AND CAPPED AT FACTORY. DO NOT BREAK CAPS. ADJUSTMENT DURING TUNE-UP IS NOT RECOMMENDED. FOR MAJOR REPAIR, ADJUSTING MIXTURE SETTING BY OTHER THAN APPROVED SERVICE PROCEDURE MAY VIOLATE FEDERAL AND/OR CALIFORNIA OR OTHER STATE LAWS. SEE SERVICE MANUAL FOR ADDITIONAL INFORMATION</p>	<p><b>ENGINE SPECIFICATIONS</b></p> <table border="1"> <tr> <td>TIMING (BTDC @ RPM)</td> <td>12° @ 2000 (IN PARK)</td> </tr> <tr> <td>SPARK PLUGS GAP</td> <td>.080 IN.</td> </tr> <tr> <td>SPARK PLUGS TYPE</td> <td>AC R 46 SK</td> </tr> <tr> <td>CARBURETOR SCREW</td> <td>600 RPM (IN DRIVE)</td> </tr> <tr> <td>FAST IDLE SCREW</td> <td>900 RPM (IN PARK)</td> </tr> <tr> <td>CHOKE SETTING</td> <td>3 N.R.</td> </tr> <tr> <td>VALVE LASH</td> <td>HYDRAULIC</td> </tr> <tr> <td>FUEL REQUIREMENTS</td> <td>91 OCTANE OR HIGHER</td> </tr> </table>		TIMING (BTDC @ RPM)	12° @ 2000 (IN PARK)	SPARK PLUGS GAP	.080 IN.	SPARK PLUGS TYPE	AC R 46 SK	CARBURETOR SCREW	600 RPM (IN DRIVE)	FAST IDLE SCREW	900 RPM (IN PARK)	CHOKE SETTING	3 N.R.	VALVE LASH	HYDRAULIC	FUEL REQUIREMENTS
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<p>THIS ENGINE CONFORMS TO U.S. ENVIRONMENTAL PROTECTION AGENCY, AND WHERE APPLICABLE CALIFORNIA, REGULATIONS APPLICABLE PRINTED IN U.S.A. TO 1977 MODEL YEAR GASOLINE-FUELED HEAVY DUTY ENGINES. PART NO. 558920</p>																	

Comments

Date of Issue : 011477

Abbreviation

<u>Distributor</u>	<u>Exhaust Emission Control System</u>	<u>*Service</u>
C-Centrifugal Advance	AI-Air Injection	I-Inspect, repair, replace as needed
V-Vacuum Advance	EGR-Exhaust Gas Recirculation	R-Replace
VR-Vacuum Retard	EM-Engine Modification	
EI-Electronic Ignition	OC-Oxidation Catalyst	