State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-96
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:

Family	Engine Size CID	Engine Model	Exhaust Emission Control System
GM113T	400	LF4	Air Injection
	350	LF9	Air Injection
	350	LS9	Air Injection

Section 43200, Part I, 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 following are the recommended values to be listed on the decal:

Engine Family	$HC + NO_2$ gm/bhp-hr	CO gm/bhp-hr	HC gm/bhp-hr	NO_2 gm/bhp-hr
GM113T		20	0.7	7.1

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 12 day of August, 1976.

G. C. Hass

G. C. Hass, Chief
Division of Vehicle Emissions Control

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

Manufacturer General Motors Corporation Executive Order No. A-6-96 Page 1

Engine Family GM 113T Engine (CID) 350 - 400 Calibration

Emission Control System AI

Engine Models	Distributor Type HEI C,V Mfgr. Part No.	Fuel System Type See below Mfgr. (1) Part No.	EGR System Part No. Service*	Tune-Up Specifications Idle Speed Basic Timing Idle Mixture
LS9	Delco Remy 1103250	RPD/Carter 1-4V 7045583 7045585 7045586	None	See Tune-Up label No. CU
LS9	Delco Remy 1103250	RPD/Carter 1-4V 17057514		
LF4	Delco Remy 1103250	RPD/Carter 1-4V 17057529		
LF4	Delco Remy 1103250	RPD/Carter 1-4V 17057525		
LF9	Delco Remy 1103251	RPD/Bay City 1-2V 17056434		See Tune-up label No. 2009482
LF9	Delco Remy 1103251	RPD/Bay City 1-2V 17056433		

Comments

(1) Optional Manufacturers.

Date of Issue 08/17/76

Tune-up label No. CU added 090376.

Abbreviation

Distributor
C-Centrifugal Advance
V-Vacuum Advance
VR-Vacuum Retard
EI-Electronic Ignition

Exhaust Emission Control System
AI-Air Injection
EGR-Exhaust Gas Recirculation
EM-Engine Modification
OC-Oxidation Catalyst

*Service
I-Inspect, repair, replace as needed
R-Replace

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

Manufacturer General Motors Executive Order No. A-6-96 Page 2

Engine Family GM 113T

2009482
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ENGINE EXHAUST EMISSION CONTROL INFORMATION
GENERAL MOTORS CORPORATION

GM

ENGINE	GM 113T 350 CID
IDLE SPEED	600 RPM
IGN. TIMING	4° BTDC
SPARK PLUG GAP	0.035 IN.
VALVE LASH	HYDRAULIC

MAKE ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, AIR CLEANER ON, AIR CONDITIONING ON, AND TRANSMISSION IN NEUTRAL. PLUG DISCONNECTED VACUUM FITTINGS.

SET PARKING BRAKE AND BLOCK DRIVE WHEELS

1. DISCONNECT DISTRIBUTER VACUUM HOSE AND PLUG AT CARBURETOR AND DISCONNECT FUEL TANK HOSE ON VAPOR CANISTER, WHEN EQUIPPED.
2. SET TIMING AT SPECIFIED IDLE SPEED.
3. ADJUST IDLE STOP TO SPECIFIED IDLE SPEED
4. RECONNECT VACUUM HOSES.

NOTE: Idle mixture screws are preset and capped at factory. Either removing mixture screw caps or breaking the tabs thereon and altering the mixture setting by other than approved procedures may violate Federal and/or California or other state laws.

FUEL REQUIREMENTS-USE 91 OCTANE OR HIGHER

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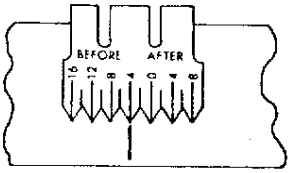
IF IDLE MIXTURE ADJUSTMENT IS REQUIRED, ADJUST MIXTURE SCREWS TO HIGHEST IDLE SPEED AND SET IDLE STOP TO 675 RPM. THEN, TURN IN MIXTURE SCREWS EQUALLY TO REDUCE IDLE SPEED TO 600 RPM. SEE SERVICE MANUAL FOR ADDITIONAL INFORMATION.



THIS ENGINE CONFORMS TO U.S. ENVIRONMENTAL PROTECTION AGENCY, AND WHERE APPLICABLE CALIFORNIA, REGULATIONS APPLICABLE TO 1977 MODEL YEAR GASOLINE-FUELED HEAVY DUTY ENGINES.

LOCATION: LABELS TO BE AFFIXED TO THE AIR CLEANER

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

Manufacturer General Motors Corporation Executive Order No. A-6-96 Page 3

Engine Family GM 113T

CU

ENGINE EXHAUST EMISSION CONTROL INFORMATION

GENERAL MOTORS CORPORATION

GM

MAKE ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE FULL OPEN, AIR CLEANER INSTALLED AND AIR CONDITIONING OFF UNLESS OTHERWISE INDICATED. SET PARKING BRAKE AND BLOCK DRIVE WHEELS. PUT TRANSMISSION IN PARK OR NEUTRAL FOR ALL SETTINGS. (1) DISCONNECT FUEL TANK HOSE TO VAPOR CANISTER. (2) DISCONNECT AND PLUG VACUUM HOSE AT DISTRIBUTOR. SET IGNITION TIMING AT SPECIFIED RPM. UNPLUG AND RECONNECT VACUUM HOSE AT DISTRIBUTOR. (3) ADJUST IDLE MIXTURE BY THE LEAN DROP PROCEDURE AS REQUIRED. (4) ADJUST IDLE SPEED ONLY WITH AIR COND. ON, IF SO EQUIPPED, EXCEPT FOR 454 CU. IN. (5) DISCONNECT AND PLUG VACUUM HOSE AT EGR VALVE (454 CU. IN. ONLY). ADJUST FAST IDLE SPEED WITH LEVER ON HIGH STEP OF CAM. UNPLUG AND RECONNECT VACUUM HOSE TO EGR VALVE WHEN SETTING IS COMPLETED. (6) RECONNECT FUEL TANK HOSE TO VAPOR CANISTER.

FAMILY	ENG. DISP.	EMISSION CONTROL	IDLE RPM	TIMING	FAST IDLE RPM	SPARK PLUG GAP (IN.)	LEAN DROP IDLE MIXTURE	VALVE LASH
112A	292	CCS	600	8° BTC	2400	0.035	700-600 RPM	HYD.
113T	350	AIR	700	2° BTC	1600	0.060	800-700 RPM	HYD.
113T	400	AIR	700	2° BTC	1600	0.045	770-700 RPM	HYD.
115	454	AIR-EGR	700	8° BTC	1700	0.045	750-700 RPM	HYD.

ENGINE DISPLACEMENT AND EMISSION FAMILY FOR THIS VEHICLE ARE NOTED ON OTHER ENGINE EXHAUST EMISSION CONTROL INFORMATION LABEL.

NOTE IDLE MIXTURE SCREWS ARE PRESET AND CAPPED AT FACTORY. EITHER REMOVING MIXTURE SCREW CAPS OR BREAKING THE TABS THEREON AND ALTERING THE MIXTURE SETTING BY OTHER THAN APPROVED PROCEDURES MAY VIOLATE FEDERAL AND/OR CALIFORNIA OR OTHER STATE LAWS. IF ADJUSTMENT IS REQUIRED, MIXTURE MAY BE RESET USING LEAN DROP METHOD PER SERVICE MANUAL.

SEE SERVICE MANUAL FOR ADDITIONAL INFORMATION.

FUEL REQUIREMENTS — USE 91 OCTANE OR HIGHER

PRINTED IN U.S.A.

THIS ENGINE CONFORMS TO U.S. ENVIRONMENTAL PROTECTION AGENCY, AND WHERE APPLICABLE CALIFORNIA, REGULATIONS APPLICABLE TO 1977 MODEL YEAR GASOLINE-FUELED HEAVY DUTY ENGINES.

PT. NO. 460481